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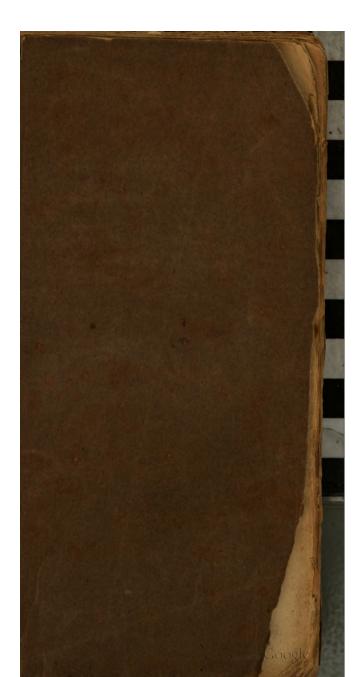
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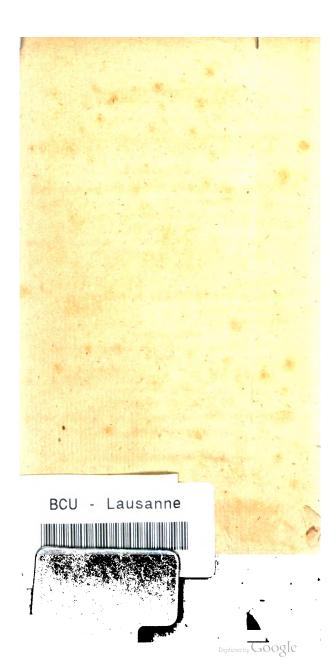
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PANOPTICON;

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THE INSPECTION-HOUSE:

CONTAINING

The IDEA of a NEW PRINCIPLE of CONSTRUCTION applicable to any Sort of ESTABLISHMENT, in which Perfons of any Defcription are to be kept

under INSPECTION :

.

AND IN PARTICULAR TO

PENITENTIARY - HOUSES,

 PRISONS,
 MANUFACTORIES,

 HOUSES OF INDUSTRY,
 MAD-HOUSES,

 WORK-HOUSES,
 LAZARETTOS,

 POOR-HOUSES,
 HOSPITALS,

 AND SCHOOLS:

WITH

A PLAN OF MANAGEMENT

Avapted to the Principle : IN A SERIES OF LETTERS, 'Written in the Year 1787, from Crecheff in White Ruffia, to a Friend in England.

By JEREMY BENTHAM, OF LINCOLNS INK, BEQUIRE.

DUBLIN, PRINTED: London, reprinted; and fold by T. PAYNE, at the Mews Gate.

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TERRATA.

- Page, Line.
 *10, 15, for " digfied," read " dignified"
 21, 24, for " and out door employments," read " out door employments"
 22, 12, for " ma," read " may"
 23, 9, for " the moft purpofes," read " moft purpofes"
 26, 5, for " a friet," read " and a ftriet"
 30, 3, for " that it can," read " than it can"
 44, 21, for " fuch expence," read " any fuch expence"
 46, 1, for " difpute the punifhment," read " difpute, the punifhment."

- punifiment" 23, for " taking management," read " taking the ma-C..... (nagement")
 '51, 5, for "throw," read "I throw"
 63, 33, for "throw," read "I throw"
 63, 33, for "fafe cuftody," read "of fafe cuftody"
 73, 17, for "mideft and left," read "milder and lefs"
 76, 5, for "a twork," read "to work."
 77, 11, for "this confinement." read "the confiaement"
 87, 2, for "fort at," read "fort of"
 87, 5, for "on what," read "in what"
 87, 9, for "con which," read "in what"
 94, 19, for "fnould be," read "found he be"
 310, 4, for, "I mean of," read "I mean that of" 'nagement"

PANOPTICON,

OR THE

INSPECTION HOUSE, Gc. Gc.

LETTERIL

Idea of the Inspection Principle.

CRECHEFF IN WHITE RUSSIA,

DEAR ****,

I OBSERVED t'other day in one of your Englifh papers an advertifement relative to a HOUSE OF CORRECTION therein fpoken of, as intended for *******. It occurred to me, that the plan of a building, lately contrived by my brother, for purposes in fome respects similar, and which under the name of the *Inspection House*, or the *Elaboratory*, he is about erecting here, might afford B fome

9

2. Idea of the Inspection Principle.

fome hints for the above Establishment.* I have accordingly obtained fome drawings relative to it, which I here inclose. Indeed I look upon it as capable of applications of the most extensive nature; and that for reasons which you will soon perceive.

To fay all in one word, it will be found applicable, I think, without exception to all effablishments whatsoever, in which within a space not too large to be covered or commanded by buildings, a number of persons are meant to be kept under inspection. No matter how different, or even opposite the purpose: whether it be, that of *punishing the incorrigible, guarding the infane, reforming the vicious, confining the sufpected, employing the idle, maintaining the belples, curing the fick, instructing the willing in any branch of industry, or training the rising race in the path of education: in a word whether it be applied to the purposes of perpetual*

* The fudden breaking out of the war between the Turks and Ruffians, in confequence of an unexpected attack made by the former on the latter, concurred with fome other incidents in putting a flop to the defign. The perfon here fooken of, at that time Lieut. Col. Commandant of a battalion in the Emprefs's fervice, having obtained a regiment and other honours for his fervices in the courfe of the war, is now flationed with his regigment in a diffant part of the country.

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prifons

Idea of the Inspection Principle. 3

prifus in the room of death, or prifus for confinement before trial, or penitentiary-houses, or bouses of correction, or work-boufes, or manufactories, or madboufes, or bospitals, or schools.

It is obvious that, in all these infrances, the more conftantly the perfons to be infpected are under the eyes of the perfons who should inspect them, the more perfectly will the purpose of the establishment have been attained. Ideal perfection, if that were the object, would require that each perfon should actually be in that predicament, during every instant of time. This being imposible, the next thing to be wished for is, that, at every inftant, feeing reason to believe as much, and not being able to fatisfy himfelf to the contrary, he should conceive himself to be so. This point, you will immediately fee, is most compleatly fecured by my brother's plan; and, I think, it will appear equally manifest, that it cannot be compassed by any other, or to speak more properly, that if it be compassed by any other, it can only be in proportion as fuch other may approach to this.

To cut the matter as short as possible, I will confider it at once in its application to fuch purpofes as, being most complicated, will ferve to ex-B 2 emplify

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A Idea of the Inspection Principle.

emplify the greatest force and variety of precautionary contrivance. Such are those which have suggested the idea of *Penitentiary-bouses*: in which the objects of *fafe-custody*, confinement, *folitude*, *forced labour* and *instruction*, were all of them to be kept in view. If all these objects can be accomplished together, of course with at least equal certainty and facility may any lesser number of them.

LETTER

Plan for a Penitentiary Inspection-house: 5

LETTER II.

Plan for a Penitentiary Infpection-House.

DEFORE you look at the plan, take in words **B** the general idea of it.

The building is circular.

The apartments of the prifoners occupy the circumference. You may call them, if you pleafe, the Cells.

These Cells are divided from one another, and the prifoners by that means feeluded from all communication with each other, by partitions in the form of radii iffuing from the circumference towards the center, and extending as many feet as shall be thought necessary to form the largest dimention of the Cell.

The apartment of the Infpector occupies the center; you may call it if you pleafe the In/pettor's Lodge. . .

It will be convenient in most, is not in all cases, to have a vacant space or area all round, between B 3 fuch

• Plan for a Penitentiary Inffection-boufe.

fuch center and fuch circumference. You may call it if you pleafe the Intermediate or Annular Area.

About the width of a Cell may be fufficient for a *paffage* from the outfide of the building to the Lodge.

Each Cell has in the outward circumference, a window, large enough, not only to light the Cell, but, through the Cell, to afford light enough to the correspondent part of the Lodge.

The inner circumference of the Cell is formed by an iron grating, fo light as not to fcreen any part of the Cell from the Infpector's view.

Of this grating a part fufficiently large opens, inform of a *duar*, to admit the prifoner at his first entrance; and to give admission at any time to the Inspector or any of his attendants.

To cut off from each priloner the view of every other, the partitions are carried on a few feet beyond the grating into the Intermediate Area; fuchprojecting parts I call the *Protracted Partitions*.

It is conceived, that the light, coming in, its this manner through the Cells, and so across the Intermediate Area, will be sufficient for the Impecwr's Lodge: But, for this purpole, both the windows-

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Plan for a Penisoptiary Inspettien-bouse. 7

dows in the cells, and those corresponding to them in the Lodge, should, be as large as the strength of the building, and what shall be deemed a necessary attention to economy, will permit.

To the windows of the Lodge there are *blinds*, as high up as the eyes of the prifoners in their Cells can, by any means they can employ, be made to reach.

To prevent thorough light, whereby notwithfanding the blinds, the prifoners would fee from the Cells whether or no any perfon was in the lodge, that apartment is divided into quarters, by partitions formed by two diameters to the circle, croffing each other at right angles. For these partitions the thinneft materials might ferve; and they might be made removeable at pleafure ; their height, fufficient to prevent the prisoners feeing over them from the cells. Doors to these partitions, if left open at any time, might produce the thorough light: To prevent this, divide each partition into two, at any part required, fetting down the one-half, at fuch diftance from the other, as shall be equal to the aperture of a door.

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8 Plan for a Penitentiary Infpetiion-house.

These windows of the Inspector's Lodge open into the Intermediate Area, in the form of *doors*, in as many places as shall be deemed necessary to admit of his communicating readily with any of the Cells.

Small lamps, in the outfide of each window of the Lodge, backed by a reflector, to throw the light into the corresponding Cells, would extend to the night the fecurity of the day.

To fave the troublefome exertion of voice, that might otherwife be neceffary, and to prevent one prifoner from knowing, that the Infpector was occupied by another prifoner at a diftance, a fmall *tin tube* might reach from each Cell to the Infpector's Lodge, paffing acrofs the Area, and fo in, at the fide of the correspondent window of the Lodge. By means of this implement, the flightest whisper of the one might be heard by the other, especially if he had proper notice to apply his ear to the tube.

With regard to inftruction, in cafes where it cannot be duly given without the inftructor's being clofe to the work, or without fetting his hand to it by way of example before the learner's face, the inftructor must indeed here as elfewhere, fhift his

Rlan for a Penitentiary Inspection-house. 9

his station as often as there is occasion to visit different workmen; unlefs he calls the workmen to him, which in fome of the inftances to which this fort of building is applicable, fuch as that of imprifoned felons, could not fo well be. But in all cafes where directions, given verbally and at a diftance, are fufficienty these tubes will be found of use. They will fave, on the one hand the exertion of voice is would require, on the part of the inftructor, to communicate inftruction to the workmen without quitting his central flation in the Lodge; and, on the other, the confusion which would enfue, if different instructors, or perfons in the Lodge, were calling to the Cells at the fame time. And, in the cafe of hospitals, the quiet that may be infured by this little contrivance, trifling as it may seem at first fight, affords an additional advantage.

A bell appropriated exclusively to the purposes of alarm, hangs in a belfry with which the building is crowned, communicating by a rope, with the Inspector's Lodge.

The most economical, and perhaps the most convenient, way of *warming* the Cells and Area, would be by flues furrounding it, upon the principle

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10 Plan for a Penitentiary Inspection-house.

elple of those in bot-houses. A total want of every means of producing artificial heat might, in fuch weather as we fometimes have in England, be fatal to the lives of the prifoners; at any rate it would often times be altogether incompatible with their working at any fedentary employment. The flues, however, and the fire places belonging to them, instead of being on the outfide, as in hothouses, should be in the infide. By this means there would be less wafte of heat, and the current of air that would rufh in on all fides through the cells, to fupply the draught made by the fires, would answer for far the fuppole of ventilation.— But of this more under the head of Hospitals.*

* There is one fubject, which, though not of the moft digfied kind, nor of the moft pleafant kind to expatiate upon, is of too great importance to health and fafe cufiedy to be paffed over unconfidered: I mean the provision to be made for carrying off the refult of neceffary exacuations; a common neceffary might be dangerous to fecurity, and would be altogether incompatible with the plan of folitude. To have the filth carried off by the attendants, would be altogether as incompatible with cleanlinefs; fince-without fuch a degree of regularity as it would be difficult, if not ridiculous, to attempt to inforce in cafe of heakh, and altogether impoffible in cafe of ficknefs, the air of each Cell, and by that means the Lodge itfelf would be liable to be kept in a finte of conftant contamination, in the intervals betwixt one vifit and

Plan for a Penitentiary Inspection-house. 12

and another. This being the cafe, I can fee no other eligible means, that that of having in each Cell a fixt provision made for this purpose in the confiruation of the building.

Betwitt every other two Cells, at the end of the partition which divides them, a hollow fhaft or tunnel is left in the brick-work of the exterior wall; which tunnel, if there be feveral flories to the building, is carried up through all of them.

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Into this tunnel is inferted under each Cell, the bottom of an EARTHEN FIFE (like those applied in England to the tops of chirinneys) glazed in the infide. The upper end, opening into the Céll, is covered by a feat of caft-iron, bedded into the brick work; with an aperture, which neither by its fize nor fhape, fhall be capable of admitting the body of a man. To gain the tunnel from the infide of the Cell, the pofition of this pipe will of course be flanting. At the bottom of the tunnel, on the outfide of the building, an arched opening, fo low as fcarcely to be differnible, admits of the filth being carried away. No one, who has been at all attentive to the hiftory of prifons, but muft have observed, how often escapes have been effected or attempted through this channel.

A flight screen, which the prisoner might occasionally interpole, may perhaps not be thought seperfluous. This, while it answers the purpose of decency, might be for adjusted as to prevent his concealing from the eye of the Inspector any forbiddenenterprize.

For each Cell, the whole apparatus would not come to many faillings : a fmall confideration for a great degree of fecurity. In this manner, without any relaxation of the difcipline, the advantages of cleanlines, and its concomitent health, may be attained to as great a degree as in most private houfes.

It would be regarded perhaps, as a luxury to great for an effablighment

12 Plan for a Penitentiary Inspection-bouse:

bliament of this kind, were I to venture to propose the addition of a WATER FIFE all round, with a cock to it in each Cell.— The clear expence would, however, not be quite fo great as it might feem : fince by this means a confiderable quantity of atsendance would be faved. To each prifoner, fome allowance of water must neceffarily be afforded, if it were only for drink, without regard to cleanlinefs. To forward that allowance by hand to two or three hundred prifoners in fo many different apartments, might perhaps be as much as one man could do, if confirmly employed. For the raifing the water by pumps to the neceffary elevation, the labour of the prifoners would fuffice.

As to the MATERIALS, brick, as every body knows, would be the cheapeft in ***, and either brick or ftone, in every other part of England. Thus much as to the fhell. But in a building calculated for duration, as this would be, the expence of allowing the fame materials to the FLOORS, and laying them upon ARCHES, would, I imagine, not be deemed an unfuitable one; efpecially when the advantage of a perfect fecurity from fire intaken into the account.

LETTER

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LETTER III.

Extent for a Single Building.

S O far as to the characteristic parts of the principle of construction. You may now perhaps, be curious to know, to what extent a building upon this principle is capable of being carried, confistently with the various purposes to which it may come to be applied. Upon this subject, to speak with confidence belongs only to architects by prosefition. Indulge me however with a few words at a venture.

As to the *Cells*, they will of course be more or s less spacious, according to the employment which it is designed should be carried on in them.

As to the whole building, if it be too fmall, the circumference will not be large enough to afford a fufficient number of Cells : if too large, the depth from the exterior windows will be too great : and there will not be light enough in the Lodge.

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As to this individual building of my brother's, the dimensions of it were determined by the confideration of the most convenient scantlings of the timbers (that being in his fituation the cheapest material) and by other local confiderations. It is to have two stories, and the diameter of the whole building is to be 100 feet out and out.

Merely to help conception, I will take this fize for an example of fuch a building as he would propole for England.

Taking the diameter 100 feet, this admits of .48 Cells, 6 feet wide each at the outfide, walls included: with a *paffage* through the building of 8 or nine feet.

I begin with fuppoling two flories of Cells.

In the under flory, thickness of the walls $2\frac{1}{2}$ feet.

From thence clear *depth* of each Cell, from the window, to the grating, 13 feet.

From thence to the ends of the Partition Walls, 3 feet more: which gives the length of the Protraffed Partitions.

Breadth of the Intermediate Area, 14.

Total from the outfide of the building to the *Lodge*, 32¹ feet.

The

The double of this, 65 feet, leaves, for the diameter of the Lodge, 35 feet; including the thickinels of its walls.

In the upper flory, the Cells will be but 9 feet deep; the difference between that and the 13 feet, which is their depth in the under flory, being taken up by a Gallery, which furrounds the Protracted Partitions.

This Gallery fupplies, in the upper flory, the place of an Intermediate Area on that floor; and by means of *fleps*, which I shall come to prefently, forms the communication between the upper flory, of Cells to which it is attached, and the lower flory of the Cells together with the Intermediate Area and the Lodge.

The spot most remote from the place where the light comes in from, I mean the contrical spot of the building and of the Lodge, will not be more than 50 fest distant from that place; a distance not greater, I imagine, than what is often times exemplified in churches; even in fuch as are not furnished in the manner of this building with windows in every part of the exterior boundary. But the Inspector's windows will not be more than about $32\frac{1}{2}$, feet from the open light.

Google

It would be found convenient, "I believe, on many accounts, and in most inftances, to make one flory of the Lodge ferve for two flories of the Cells. effective of the Lodge for two flories of the Cells. effective of the number of perfons to be infpected large, the room neceffary for each perfon not very confiderable, and frugality and neceffity more attended to than appearance.

For this purpose, the *floor* of the ground flory of the *s*-Lodge is elevated to within about 4¹/₄ feet of the floor. of the *fir/t flory* of the *Cells*. By this means the Infpector's eye, when he flands up, will be on, or a little above, the level of the floor of the above smentioned upper flory of the Cells: and, at any rate, he will command both that and the ground flory of the Cells, without difficulty, and without .change of pofture.

As to the Intermediate Area, the floor of it is upon a level, not with the floor of the Ladge, but with that of the lower flory of the Cells. But, at the upper flory of the Cells, its place, as I have already mentioned, is fupplied by the above mentioned Gallery: fo that the altitude of this area from the floor to the ceiling, is equal to that of both flories of the Cells put together.

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The floor of the Lodge, not being on a level with either flory of the Cells but between both, it must at convenient intervals be provided with flights of *fleps*; to go *down* to the ground flory of the Cells by the Intermediate Area, and up to the first floor of the Cells by the Gallery. The afcending flights, joined to the *defcending*, enable the fervants of the house to go to the upper flory of the Cells, without passing through the apartment of the Inspector.

As to the *height* of the whole, and of the feveral parts, it is fuppofed that 18 feet might ferve for *the two flories of Cells*, to be infpected, as above, by *one flory* of the *Lodge*: This would hold 96 perfons:

36 feet for four stories of *Cells*, and two of the Lodge: this would hold 192 perfons:

54 feet for fix stories of the Cells, and three of the Lodge: this would hold 288 perfors:

And 54 feet, it is conceived, would not be an immoderate elevation.

The drawings which, I believe, will accompany this, fuppole *four* for the number of flories of the Cells.

You will fee, under the head of Hofpitals, the reafons why I conceive that even a lefs height than 9 feet, deducting the thicknefs of a floor fupported by arches, might be fufficient for the Cells.

The paffage might have, for its beight, either the height of one flory, or of two flories of the Cells, according as the number of those Cells was two or four. The part over the paffage might, in either case, be added to the Lodge, to which it would thereby give a communication, at each end, with the world without doors, and enfure a keeper against the danger of finding himself a prisoner among his prisoners.

Should it be thought that, in this way, the Lodge would not have light enough, for the convenience of a man of a flation competent to the office, the deficiency might be fupplied, by a void Ipace, left in that part, all the way up. You may call it if you pleafe the *Central Area*. Into this Ipace windows may open, where they are wanted, from the apartments of the Lodge. It may be either left open at the top or covered with a fxylight. But this expedient, though it might add, in fome refpects, to the convenience of the Lodge

could

could not but add confiderably to the quantity and expence of the building.

On the other hand it would be affiftant to ventilation. Here too would be a proper place for the *Chapel*: the Prifoners remaining in their Cells; and the windows of the Lodge, which is almost all window, being thrown open. The advantages derivable from it in point of light and ventilation depending upon its being kept vacant, it can never be wanted for any profane ufe. It may therefore with the greater propriety be allotted to divine fervice and receive a regular confectation. The *pulpit* and *founding board* may be moveable. During the term of fervice, the fky-light, at all other times. kcpt as open as possible, might be fhut.

C2 LETTER

20 The Principle exteded to uncovered Areas.

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LETTER IV.

The Principle extended to uncovered Areas.

IN my two laft letters, I gave you fuch idea as it was in my power to give you by words, of this new plan of conftruction, confidered in its most *fimple* form. A few more with regard to what further *extenfions* it may admit of.

The utmost number of performs that could be flowed in a fingle building of this fort confistently with the purposes of each feveral infitution being afcertained, to increase the number, that of the buildings must of course be encreased. Suppose two of these rotundas requisite: these two might, by a covered Gallery constructed upon the fame principles, be confolidated into one Inspectionhouse. And by the help of fuch a covered Gallery

The Principle extended to uncovered Areas. 21

lery the the field of Infpection might be dilated to any extent.

If the number of retundas were extended to four a regular uncovered area might in that way be inclofed: and, being furmounded by covered. Galleries, would be commanded in this manner from all fides, inflead of being commanded only from one.

The Area thus inclosed might be either circular like the buildings, or *fquare*, or *ablong*, as one or other of those forms were built adapted to the prevailing ideas of beauty or local convenience. A chain of any length, composed of infpection-boules adapted to the fame or different purposes, might in this way be carried round an area of any extent.

On fuch a plan, either one Infpector might ferve for two or more rotundas, or, if there were one to each, the infpective force, if I may use the expression, would be greater in such a compound building than in any of the number, fingly taken, of which it was composed: fince each Infpector might be relieved occasionally by every other.

In the uncovered Area thus brought within the field of Infpection, and out-door employments, or any employments requiring a greater covered space \mathcal{C} 3 than

22 The Principle extended to uncovered Areas.

than the general form of conftruction will allow, might be carried on upon the fame principle. A kitchen garden, might then be cultivated, for the use of the whole fociety, by a few members of it at a time, to whom such an opportunity of airing and exercising themselves would be a refreshment and indulgence.

Many writers have expatiated, with great force and juffice, on the unpopular and unedifying caft of that undiffinguifhing difcipline, which, in fituation and treatment, confounds the lot of thole who ma prove innocent with the lot of thole who have been proved to be guilty. The fame roof, it has been faid, ought not to inclose perfons, who ftand in predicaments fo diffimilar. In a combination of Infpection-houfes, this delicacy might be observed, without any abatement of that vigilance with regard to fase-custody, which in both cases is sequally indifpenfable.

LETTER

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Effential Points of the Plan. 23

LETTER V.

Essential Points of the Plan.

T may be of use, that among all the particulars you have seen, it should be clearly understood, what circumstances are, and what are not, effential to the plan. The effence of it consists then, in the centrality of the Inspector's situation, combined with the well known and most effectual contrivances for feeing without being feen. As to the general form of the building, the most commodious for the most purposes seems to be the circular: but this is not an absolutely effectual circumstance.— Of all figures, however, this, you will observe, is the only one that affords a perfect view, and the C_4 same

24 Effential Points of the Plan.

fame view, of an indefinite number of apartments of the fame dimenfions; that affords a fpot from which, without any change of fituation, a man may furvey, in the fame perfection, the whole number, and without fo much as a change of pofture, the half of the whole number, at the fame time: that, within a boundary of a given extent, contains the greateft quantity of room :-----that places the center at the leaft diftance from the light:---that gives the Cells moft width, at the part where, on account of the light, moft light may, for the purpofes of work, be wanted :---and that reduces to the greateft poffible fhortnefs the path taken by the Infpection, in paffing from each part of the field of infpection to every other.

You will pleafe to obferve, that, though perhaps, it is the most important point, that the perfons to be inspected should always feel themselves as if under inspection, at least as standing a great chance of being fo, yet it is not by any means the enly one. If it were, the fame advantage might be given to buildings of almost any form. What is also of importance is, that for the greatest proportion of time possible, each man should actually be under ۱

Esfential Points of the Plan. 25

under infpection. This is material in *all* cafes, that the Infpector may have the fatisfaction of knowing, that the difcipline actually has the effect which it is defigned to have : and it is more particularly material in fuch cafes where the Infpector, befides feeing that they conform to fuch flanding rules as are prefcribed, has more or lefs frequent occafion to give them fuch transfent and incidental directions as will require to be given and enforced, at the commencement at leaft, of every courfe of indusfry. And I think, it needs not much argument to prove, that the bufinefs of infpection, like every other, will be performed to a greater degree of perfection, the lefs trouble the performance of it requires.

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Not only fo, but the greater chance there is, of a given perfon's being at a given time actually under inspection, the more firong will be the perfuation, the more *intenfe*, if I thay to fay, the *feeling*, he has of his being fo. How fittle turn foever the greater number of perfons to citcumftanced may be supposed to have for calculation, some rough fort of calculation can fearcely, under such circumftances avoid forcing itself upon the rudeft mind.

26 Effential Points of the Plan.

mind. Experiment, venturing first upon flight transgreffions, and so on, in proportion to fucces, upon more and more considerable ones, will not fail to teach him the difference between a loose inspection a strict one. ٦

It is for these reasons, that I cannot help looking upon every form as less and less eligible, in proportion as it deviates from the *circular*.

A very material point is, that room be allotted to the Lodge, fufficient to adapt it to the purpole of a compleat and constant habitation for the principal Infpector, or head-keeper, and his family .---The more numerous also the family, the better; fince, by this means, there will in fact be as many Infpectors as the family confifts of perfons, though only one be paid for it. Neither the orders of the Infpector himfelf, nor any interest which they may feel, or not feel, in the regular performance of his duty, would be requisite to find them inotives adequate to the purpole. Secluded often times, by their fituation, from every other object, they will naturally, and in a manner unavoidably give their eyes a direction conformable to that purpose, in every momentary interval of their ordinary occupations. It will fupply in their infance 1

Essential Points of the Plan. 27

flance the place of that great and conflant fund of entertainment to the fedentary and vacant in towns, the looking out of the window. The fcene, though a confined, would be a very various, and therefore perhaps not altogether an unamuling one.

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LETTER

Advantages of the Plan.

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LETTER VL

Advantages of the Plan.

I FLATTER myleif there can now be little doubt, of the plan's possifiering the fundamental advantages I have been attributing to it, I mean the apparent omniprefence of the Inspector (if divines will allow me the expression) combined with the extreme facility of his real prefence.

A collateral advantage it posses, and on the fcore of frugality a very material one, is that which respects the *number* of the Inspectors requifite. If this plan required more than another, the additional number would form an objection which, were the difference to a certain degree confiderable, might rife to high as to be conclusive; fo far from it, that a greater multitude than ever were yet lodged in one house might be inspected by a fingle

Advantages of the Plan.

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single perfor. For the trouble of infpection is diminished in no lefs proportion than the strictness of infpection is increased.

Another very important advantage, whatever purposes the plan may be applied to, particularly where it is applied to the feverest and most coercive purpofes, is, that the under Keepers or Infpectors, the fervants and fubordinates of every kind, will be under the fame irrefiftible controul with refpect. to the head Keeper or Infpector, as the Prifoners or other perfons to be governed are with refpect to them. On the common plans, what means, what poffibility, has the Prifoner, of appealing to the humanity of the principal for redrefs, against the neglect or oppression of subordinates in that rigid fphere, but the few opportunities which, in a growded Prifon, the most confcientious Keeper car afford-but the none at all which many a Keeper thinks fit to give them? How different would their Jot be upon this plan !

In no inftance could his fubordinates either perform or depart from their duty, but he must know the time and degree and manner of their doing fo. It prefents an answer, and that a fatisfactory one, to one of the most puzzling of political questions, 2 guis

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quis cuftodiet ipfos cuftodes? and, as the fulfilling of his, as well as their, duty would be rendered fo much eafier, that it can ever have been hitherto, to might, and fo fhould, any departure from it be punifhed with the more inflexible feverity. It is this circumftance that renders the influence of this plan not lefs beneficial to what is called *Liberty* than to neceffary coercion; not lefs powerful as a controul upon fubordinate power, than as a curb to delinquency; as a fhield to innocence than as a focurge to guilt

Another advantage, ftill operating to the fame ends, is the great load of trouble and difguft, which it takes off the shoulders of those occasional Inspectors of a higher order, such as *Judges*, and other *Magistrates*, who called down to this inkfome task from the superior ranks of life, cannot but feel a proportionable repugnance to the discharge of it. Think how it is with them upon the prefent plans and how it shill muss be, upon the best plans that have been hitherto devised! The Cells or apartments, however constructed, muss, if there be nine hundred of them, (as there were to have been upon the Penitentiary-house plan) be opened to the visitors, one by one. To do their susaes to any purpose, they muss approach near

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to, and come almost in contact with, each inhabitant: whose situation being watched over according to no other than the loose methods of inspection at present practicable, will on that account require the more minute and troublessome investigation on the part of these occasional superintendants. By this new plan, the difgust is intirely removed, and the trouble of going into such a room as the Lodge, is no more than the trouble of going into any other.

Were Newgate upon this plan, all Newgate might be inspected by a quarter of an hour's visit to Mr. Akerman;

Among the other caufes of that reluctance, none at prefent fo forcible; none fo unhappily well grounded, none which affords fornatural an excufe; nor fo ftrong a reafon againft accepting of any excufe, as the danger of *infection*: a circumftance, which carries death, in one of its most tremendous forms, from the feat of guilt to the feat of justice, involving in one common catastrophe the violater and the upholder of the laws. But in a fpot fo constructed, and under a course of discipline fo infured, how should infection ever arise? or how should it continue? against every danger of this kind,

kind, what private houfe of the poor, one might almost fay, or even of the most opulent, can be equally fecure?

Nor is the difagreeableness of the task of superintendance diminished by this plan, in a much greater degree than the efficacy of it is increased. On all others, be the superintendant's visit ever so unexpected, and his motions ever so quick, time there must always be for preparations, blinding the real flate of things. Out of nine hundred Cells he can visit but one at a time, and, in the mean while, the worst of the others may be arranged, and the inhabitants threatened, and tutored how to receive him. On this plan, no sooner is the superintendant announced, than the whole scene opens inflantaneously to his view.

In mentioning Infpectors and fuperintendants who are fuch by office, I muft not overlook that fyftem of Infpection, which, however little heeded, will not be the lefs ufeful and efficacious; I mean the part which individuals may be difpofed to take in the bufinefs, without intending perhaps, or even without thinking of, any other effects of their vifits, than the gratification of their own particular curiofity. What the Infpector's or Keeper's

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er's family are with refpect to *him*, that, and more, will thefe fpontaneous vifitors be to the fuperintendant; affiftants, deputies in fo far as he is faithful, witneffes and judges, fhould he ever be unfaithful, to his truft. So as they are but there, what the motives were that drew them thither, is perfectly immaterial; whether the relieving of their anxieties by the affecting profpect of their refpective friends and relatives thus detained in durance, or merely the fatisfying that general curiofity, which an eftablifhment on various accounts fo interefting to human feelings, may naturally be expected to excite.

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You fee, I take for granted as a matter of courie, that under the neceflary regulations for preventing interruption and diffurbance, the doors of these establishments will be, as, without very special reasons to the contrary, the doors of all public establishments ought to be, thrown wide open to the body of the curious at large :--the great open committee of the tribunal of the world. And who ever objects to such publicity where it is practicable, but those whose motives for objection afford the strongest reasons for it?

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LETTER

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34. Penitentiary-bousses-Safe Custody.

LETTER VII.

Penitentiary-houses-Safe Custody.

DECOMPOSING the plan, I will now take the liberty of offering a few feparate confiderations, applicable to the different purpoles, to which it appears capable of being applied.

A Penitentiary-house more particularly is, (I am forry I must correct myself, and fay was to have been) what every Prison might, and in some degree at least ought to be, designed at once as a place of Safe Custody, and a place of labour. Every such place must ucceffarily be, whether designed or not, an Hospital: a place where sickness will be sound at least, whether provision be or be not made

Penitentiary-houses-Safe Custody. 35

made for its relief. I will confider this plan in its application to these three distinguishable purposes.

Against escapes, and in particular on the part of Felons of every description, as well before as after conviction, perfons from the desperateness of whose fituation attempts to escape are more particularly to be apprehended, it would afford, as I dare fay you fee already, a degree of fecurity, which perhaps has been fcarce hitherto reached by conception, much lefs by practice. Overpowering the guard requires an union of hands, and a concert among minds. But what union, or what concert, can there be among perfons, no one of whom will have fet eyes on any other from the first moment of his entrance? Undermining walls, forcing iron bars requires commonly a concert, always a length of time exempt from interruption. But who would think of beginning a work of hours and days, without any tolerable prospect of making fo much as the first motion towards it unobserved ?-Such attempts have been feldom made without the affiftance of implements introduced by accomplices But who would expose themfrom without. felves even to the flightest punishment, or even. to the mortification of the difappointment, with-D 2 out

36 Penitentiary-bouses-Safe Custody.

out fo much as a tolerable chance of efcaping inflantaneous detection ?——Who would think of bringing in before the keeper's face, fo much as a fmall file, or a phial of *aqua fortis*, to a perfon not prepared to receive any fuch thing, nor in a condition to make use of it ?" Upon all plans hitherto purfued, the thickeft walls have been found occasionally unavailing; upon this plan the thinness would be fufficient; a eiscumstance which must operate, in a striking degree, towards a diminution of the expence.

In this, as in every other application of the plan, you will find its lenient, not lefs confpicuous than its coercive tendency; infomuch that, if you were to be afked, who had most cause to wish for its adoption, you might find yourfelf at some loss to determine, between the malefactors them+

• Should fuch frictnels be thought requifite, vifitors if admitted into the Intermediate Area, might be precluded by a rail, from approaching nearer than to a certain diffance from the Cells; and, in fome cafes all convertation between them and the prifoners might be interdicted altogether. The propriety of fuch a regulation, may be thought to frand upon a different footing, according as the confinement were previous or fubfequent to cons. Giors, and according to the nature of the offence and the intended feverity of the punifoment.

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Penitentiary-houses-Safe Custody. 37

felves, and those for whose fake they are configned to punishment.

In this view 1 am fure you cannot overlook the effect which it would have in rendering unneceffary that inexhaustible fund of disproportionate, too often needlefs, and always unpopular feverity, not to fay extortion, the use of Irons. Confined in one of these Cells, every motion of the limbs, and every muscle of the face exposed to view, what pretence could there be for exposing to this hardship the most boisterous malefactor? Indulged with perfect liberty within the fpace allotted to him, in what worfe way could he vent his rage than by beating his head against the walls? and who but himfelf would be a fufferer by fuch folly ?--- Noife, the only offence by which a man thus encaged could render himfelf troublefome (an. offence by the bye against which irons themselves afford no fecurity) might, if found otherwife incorrigible, be fubdued by gagging :--- a most natural and efficacious mode of prevention as well as punishment, the prospect of which would probably be for ever fufficient, to render the infliction of it unnecessary. Punishment, even its most hideous forms, loses its odious character, when be-D 3 reft

38 Penitentiary-houfes-Safe Custody.

reft of that uncertainty, without which the raffieft defperado would not expose himfelf to its flroke. If an inftance be wanted, think what the means are, which the fo much admired law of England makes use of, and that in one of its most admired branches, to work, not upon criminals, but upon its favorite class of judges? what but death? and that no common death, but death the flow but neceffary refult of lingering torture. And yet, whatever other reproach the law may be thought to merit, in what inftance was it ever feen to expose itself in this way to the reproach of cruelty?

LETTER

Ufes—Penitentiary-boufes—Reformation. 39

LETTER VIII.

Uses-Penitentiary-houses-Reformation.

IN my laft, I endeavoured to ftate to you the advantages which a receptacle, upon the plan of the proposed building seemed to promise, in its application to places of *confinement*, confidered merely in that view. Give me leave now to confider it as applicable to the joint purposes of *punifiment*, *reformation*, and *pecuniary economy*.

That, in regard to perfons of the defcription of those to whom punishments of the nature in question are defined, folitude is in its nature subfervient to the purpose of reformation, seems to be as little disputed, as its tendency to operate in addi-D 4 tion

40 Uses-Penituntiary-bousses-Reformation.

tion to the mais of fufferance. But, that upon this plan that purpole would be effected, at leaft as completely as it could be on any other, you cannot but fee at the first glance, or rather you must have observed already. In the condition of *our* prisoners (for fo I will call them for shortness fake) you may see the students paradox, *nunquam minus folus quam cum folus* realized in a new way; to the keeper, a *multitude*, though not a *crowd*; to themselves, they are *folitary* and *fequestered* individuals.

What is more, you will fee this purpofe anfwered more compleatly by this plan, than it could poffibly be on any other. What degree of folitude it was propofed to reduce them to in the once intended Penitentiary-houfes, need not be confidered. But for one purpofe, in buildings of any mode of confirration that could then and there have been in view, it would have been neceffary, according to the express regulations of that plan, that the law of folitude fhould be dispensed with; I mean, fo often as the prisoners were to receive the benefits of attendance on Divine fervice. But in my brother's circular Penitentiary-houses, they might receive these benefits, in every circumstance, without

Ufes-Penitentiary-boufes-Refermation. 41

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without flirring from their Cells. No thronging, nor joftling, in the way between the fcene of work, and the fcene deftined to devotion; no quarrellings, nor confederatings, nor plottings to efcape; nor yet any whips or fetters to prevent it.

LETTER

42 Penitontiary-boufes-Economy-Contral?-Plan.

LETTER IX.

Penitentiary-houses-Economy-Contract-Plan.

I AM come now to the article of pecuniary Economy; and as this is the great rock upon which the original Penitentiary-Plan, I understand has split, I cannot result the temptation of throwing out a few hints relative to the mode of management, which I look upon as the most eligible in this view; but which could not, as you will see, have been established with any thing like the advantage, upon any other ground than that of my brother's infpection principle.

To come to the point at once, I would do the whole by contract. I would farm out the profits, the

Penitentiary-boufes-Economy-Contract-Plan. 42

the no-profits, or if you pleafe the loffes, to him who, being in other respects unexceptionable, offered the best terms. Undertaking an enterprize new in its extent, in the description of the persons to be fubjected to his management, and in many other circumstances, his fucces in it, if he does fucceed, may be regarded in the light of an invention; and rewarded accordingly, just as fuccess in other inventions is rewaded, by the profit which a monopoly fecured by patent enables a man to make; and that in proportion to the fuccefs which conftitutes their merit. He should have it during good behaviour : which you know is as much as to fay, unless specific inftances of misbehaviour flagrant enough to render his removal expedient be proved on him in a legal way, he shall have it for his life. Befides that when thus fecured he can afford to give the better price for his bargain, you will prefently see more material reasons, to counterbalance the feeming unthriftinefs of granting him a term, which may prove fo long a one. In other respects, the terms of the contract must, of courfe, depend upon the proportion of capital, of which the contract gave him the ufe. Supposing the advance to amount to the whole manufacturing . .

44 Penitentiary-houfes-Economy-Contract-Plan.

ing flock, he must of course, either pay fomething for his contract, or be contented with a *[hare* of the grofs profits, instead of the whole, unless that from fuch profits an interest upon the capital fo advanced to him fhould be deducted : in which cafe, nobody, I fuppofe would grudge him the whole neat profit after fuch deduction, even shough the rate of interest were much below the ordinary one: the difference, between fuch reduced rate of intereft and the ordinary one would conffitute the whole of the expence which the public would be at. Suppose, to speak at random, this expence were to amount to 6, 8, or 10,000l. a year for the 3000 convicts which it was computed, would be the ftanding number, to be maintained in England.* I should not imagine, that such a fum as even this latter would be much grudged. I fancy the intended expedition to Botany Bay, of which I am just apprifed, will be rather more expensive. Not that it appears to me that the nation would remain faddled with fuch expence as

* According to the Hard-Labour Bill, 2865. See the table to my View of that Bill : fince then, I fear, the number has rather encreased than diministed. 57

Penitentiary-boufes-Economy-Contract-Plan. 45

this at the long run; or; indeed with any part of it. But of this hereafter.

In the next place I would give my contractor all the *powers* that his interest could prompt him to wish for, in order to enable him to make the most of his bargain; with only fome flight refervations, which I will mention afterwards; for very flight ones you will find they will be, that can be needful or even ferviceable in the view of preventing abuse.

But, the greater latitude he has in taking fuch measures, the lefs will he grudge the letting it be known, what the measures are which he does take; knowing, at the fame time, that no advantage can be taken of fuch knowledge, by turning him out in cafe of his fuccefs, and putting in another to reap the fruits of his contrivance. I will then require him to disclose, and even to print and publish, his accounts :--- the whole process and detail of his management :--- the whole history of the prison. 1 will require him, I fay, on pain of forfeiture or other adequate punishment, to publish thefe accounts, and that upon oath. I have no fear of his not publishing fome accounts, because, if the time is elapfed and fome accounts not published,

46 Penitentiary-houfes-Economy-Contract-Plan

lifted, a fact not liable to difpute the punifhment takes place of courfe; and I have not much fear that the accounts when published will not be *true*: becaufe, having power to do every thing that is for his advantage, there is nothing which it is his intereft to conceal: and the intereft which the punifhment for perjury gives him not to conceal is manifeft; more effectially as I make him examinable and crofs-examinable *viva voce* upon oath at any time.

It is for clearing away as much as poffible, every motive of pecuniary intereft, that could prompt him to throw any kind of cloak or referve upon any of his expedients for encreafing his profits, that I would enfure them to him for *life*.

From the information thus got from him, I derive this advantage. In the cafe of his *ill* fuccefs, I fee the caufes of it, and not only I, but every body elfe that pleafes, may fee the caufes of it; and amongft the reft, thole who, in cafe of their taking management out of his hands, would have an intereft in being acquainted with fuch caufes, in order to obviate or avoid them. More than that, if his ill fuccefs is owing to incapacity, and that incapacity fuch as, if continued, might raife my

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Penitentiary-houfes-Economy-Contract-Plan. 47

my expence above the calculation, I can make him flop in time; a measure, to which he can have as little objection as myself; for it is one advantage of this plan, that whatever mischief happens must have more than eat out all bis profits before it reaches me.

In the cafe of his good fucceis, I fee the caufes of that too ; and every body fees them, as before ; and, amongft others, all perfons who could propole to themfelves to get into a fituation fimilar to his, and who in fuch cafe would naturally promife themfelves, in the event of their getting into his fituation, a fuccefs equal to his—or rather fuperior: for fuch is the prefumption and vanity natural to man.

Without fuch publication, who fhould I have to deal with, befides him ? certainly in comparison, but a very few: not many more than I may have had at first; the terms, of course, disadvantageous as at first; for disadvantageous terms at first, while all is yet in darkness, they certainly must be.

After fuch publication, who should I have then? I should have every body; every body who, by fortune, experience, judgment, disposition, should conceive himself able and find himself inclined, to engage

48 Penitentiary-boufes-Economy-Contract-Plan.

engage in fuch a bufinefs; and each perfor feeing what advantage had been made, and how, would be willing to make his offer in proportion. What fituation more favourable for making the best terms?

These best terms, then, I should make, at his death, even for his establishment: but long before that, had I others upon the carpet, I should make fimilar good terms for all those others. Thus I make his advantage mine, not only after it has ceased to be his, but almost as soon as it commences so to be; I thus get his success in all the rest by paying for it only in the one: and in that not more than it was necessary to pay for it.

But, contractors, you will fay perhaps, or at leaft if you don't, there are enough that will, " are a good for nothing fet of people: and why " fhould we be fleeced by them? One of them per-" jured himfelf uot long ago, and we put him into " the pillory. They are the fame fort of gentry that " are called farmers general in France, and pub-" licans in the Gofpel, where they are ranked " with finners; and nobody likes thom any where."-All this to be fure is very true-But if you put one of them into the pillory, you put another of them into

Penitentiary-houfes-Economy-Contract+Plan. 49

into the poll-office; and if in the devoted city, five righteous would have fcreened the whole gang from the perdition called for by the enormities of ninety-five unrighteous, why fhould not the merits of one Palmer, be enough to make it up for the demerits of twenty Atkinfons?—Gentlemen in general, as I have had manifold occafion to obferve, love clofe reafoning, and here they have it. It might be thought flraying from the point, if I ventured to add, that gentlemen in the corn trade, or in any other trade, have not commonly quite fo many witneffes to *their bargains*, as my contractor would have to the management of *bis* houfe.

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50 Choice of Trades Should be Free.

LETTER X.

Choice of Trades should be Free.

I N my laft I troubled you with my fentiments on the duration of the first contract, and the great article of *publicity* in the management, which was my motive for admitting of a duration fo unlimited. But, long before my contractor and I had come to any fettlement about thefe points, he would have found various questions to propose to me. One thing he would not fail to fay to me is -What trades may I put my men to when I have got them?-My answer is foon given. Any whatever that you can perfuade them to turn their hands to.---Now, then, fir, let us think for a moment, if you pl cafe,

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Choice of Trades should be Free. 51

pleafe, what trades it may be most for his advantsage to put them to, and what it is therefore most likely he should be disposed to put them to.

That he may get the better view of them, throw them into four classes. In the first, I place those, who already are possessed of businesses capable of being carried on with advantage. in the prifon : in the fecond, those trained up to bufineffes which, though not capable in themfelves of being carried on within fuch limits, yet by the fimilarity of operation have a tendency to render it more or lefs eafy for a man to learn fome of those other bufineffes which are : in the third rank, I would place fuch as had been trained up indeed to industry, but to branches which have no fuch tendency as I have just mentioned; fuch for instance, as porters, coal-heavers, gardeners, and hufbandmen. In the last I would place men regularly brought up to the profession of thieving, and others who have never been brought up to any kind of industry. Some names for these different classes I may as well endeavour to find as not: for names they must have when they get into their house ; and, if I perform not that bufiness myself, fomebody elfe must do it for me. I will call them the good E 2 hands,

52 Choice of Trades flould be Frees

hands, the capable hands; the primifing hands, and the drones. As to the capable hands; they will, of courfe, be the more valuable, the nearer the bulinelles they understand approach to those of the good ones; in other words, the lefs difficulty there would be in teaching the latter the buliness of the former. The fame observation of course applies to the promising hands; in as far as the advantage which the one possible by habit the others may appear to possible by disposition. Lower down in the fcale of detail I will not attempt to lead you.

You have a very pretty law in England, for enriching the country, by keeping boys backward, and preventing men from following the trades they could get most by. If I were jealous of Ruffia's growing too rich, and being able to buy too many of our goods, I would try to get fuch a law as that introduced among these study people here, who have never yet had the sense to think of any such thing. Having no such jealous against any country, much less against my own Utopia, I would beg that law might be banished from within my walls. I fancy my contractor would be as well pleased with its room as its company; and as the same indulgence has been granted to other person

Cooice of Trades Should be Free. 59

fons of whole industry no great jealoufy feems to be entertained, fuch as foldiers and failors, I have no great fear the indulgence would be denied me. Much I believe, is not apprehended, in that way, from the red-coats and jack-tars; and still lefs, I believe, would be apprehended from my heroes. This stumbling block cleared away, the first thing, I imagine my contractor would do, would be to set to work his good hands; to whom he would add as many of his capable hands as he could muster.

With his promifing hands and his drones, he would fet up a manufacture. What then shalls this manufacture be?—It may be this, and that, and t'other thing, fays the Hard labour Bill : It shall be any thing or every thing, fay I.

As to the queftion, what fort of manufacture or manufacturer would be likely to an/wer beft? It is a difcuffion I will not attempt to lead you into, for I do not propose at present to entertain you with a critical examination of the several actual and posfible manufactures, established and establishable in Great Britain. The case, F imagine, would be, that fome manufacturer or other, would be the man I should have for my contractor; a man who, best E 3 ing

54 Choice of Trades should be Free.

ing engaged in fome fort of bufinefs that was eafy to learn, and doing pretty well, with as many hands as he was able to get upon the ordinary terms, might hope to do bester still with a greater number, whom he could get upon much better terms. Now, whether there are any fuch manufacturers, and how many, is what I cannot 'fo well tell you, efpecially at this distance; but, if you think it worth while to ask Mr. Daily Advertifer, or Mr. St. James's Chronicle, I fancy it will not be long before you get fome answer.

In my View of the Hard Labour Bill, I ventured to throw out a hint upon the fubject of putting the good hands to their own trades. Whether any and what ufe was made of that hint, I cannot recollect: for neither the act which paffed afterwards nor any chapter of that hiftory, has travelled with me to Creebeff; nor should I have had a. fingle fcrap of paper to refresh my memory on that subject, but for the copy of my own pamplet which I found on my brother's shelf. The general notion feemed to be, that as the people were to be made to work for their punishment, the works to be given to them should be formewhat which they would not like; and, in that refpect, it looks as

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if the confideration of punishment, with its ap pendage of reformation, had kept the other of economy a little behind the curtain. But I neither fee the great danger, nor the great harm of a man's liking his work too well : and how well foever he might have liked it elfewhere, I should ftill lefs apprehend his liking the thought of having it to do there. Supposing no fage regulations made by any body to nail them to this or that fort of work, the work they would naturally fall upon under the hands of a contractor would be that, whatever it might be, by which there was most money to be made; for the more the prifonerworkman got, the more the master could get out of him; fo that upon that point I should have little fear of their not agreeing. Nor do I fee why labour should be the less reforming for being profitable. On the contrary, among working men, efpecially among working men whom the difcipline of the house would so effectually keep from all kinds of mischief, I must confess, I know of no test of reformation fo plain or fo fure as the improved quantity and value of their work.

It looks, however, as if the authors of the above provision had not quite fo much faith in fuch an E 4 arrangement

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arrangement as I must confess I have. For the choice of the trade was not to be left to the governor of the prilon, much lefs to the prifonerworkman, but was given to fuperintending committees of juffices of the peace. In choosing among the employments exemplified and other fimilar ones (for if I mistake not this restriction of fimilarity was fubjoined) it was indeed resommended to those magistrates to take "fuch employments as " they should deem most conducive to profit,"---But the profit here declared to be in view was, not the profit of the workman or his mafter the governer, but I know not what profit " of the district," the "convenience" of which (though I know not what convenience there could be diftinct from profit) was another land-mark given them to fleer by. If you caft an eye on the trades exemplified (as I believe I must beg you to do prefently) you will find fome difficulty, I believe, in conceiving that in the choice of them the article of profit could have been the uppermoft confideration.' Nor was this all. 'For, befides the vefting of the choice of the employments in committees of justices in the first instance, the same magistrates are called upon to exercise their judgment and

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and ingenuity in dividing the prifoners into class; in fuch fort that the longer a man had ftaid in the house his labour should be less and less. " fevere," exception made for delinquency, in which cafe as man might at any time be turned down from an upper class to a lower. But had the matter been left to a contractor and his prifoner-workmen, they would have been pretty fure to pich uponand to flick to, what would be most conducive totheir profit, and by that means to the profit of the diffrict; and that without any recommendation. Whether the effect of that recommendation would have been equally fure upon the above mentioned magistrates, would have remained to be decided by experience. Understanding me to be speaking merely of a magistrate in the abstract, you wilk forgive my faying, that in this one point I have not quite fo great a confidence in a fet of gentlemen of that defcription, as I have in that fort of knave called a contractor. I fee no fort of danger, that to the contractor there should be any one object upon earth dearer than the interest of the contractor ; but I fee fome danger that there may be, now and then by accident, fome other object rather dearer to the magistrate. Among these rival ٠ د ; objects,

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objects, if we do not always reckon the pleafure of plaguing the contractor, should be and the magistrate chance not to agree, we may however not unfrequently reckon the exercise of his (the magistrate's) own power, and the display of his own wifdom, the former of which he may naturally enough conceive, was not given to him for nothing, nor the latter confided in without caufe. You must, I think, before now have met with examples of men, that had rather a plan of the public's, or even of an individual's for whom they had a more particular regard, should miscarry under their management, than prosper under a different one.

But if, without troubling yourfelf about general theories of human nature, you have a mind for a more palpable teft of the propriety of this reasoning, you may cut the matter thort enough, by making an experiment upon a contractor, and trying whether he will give you as good terms with thefe clogs about him, as he would without them. Sure I am, that, were I in his place, I should require no fmall abatement to be made to me, if, instead of choosing the employments for my own men, I was liable, at every turn, to have them taken

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taken out of my hands, and put to different employments, by A, B, and C, to day, and by X, Y, and Z, to-morrow.

Upon the whole, you will not wonder that I fhould have my doubts at prefent, whether the plan was rendered much better for these ingenious but complicated refinements. They seemed mighty fine to me at the time; for when I faw contrivance, I expected fuccess proportionable.

LETTER

LETTER XI.

Multiplication of Trades is not Neceffary.

S O far as to the *choice* of bufineffes. As to the new ones, I fee no reafon why any point fhould be made of *multiplying* them; a fingle one well chofen may anfwer the purpofe, juft as well as ever fo many more. I mention this, becaufe though it may be eafy to find one fpecies of manufacture, or five, or ten, that might anfwer, with workmen fo cramped, and in a fituation fo confined, it might not be quite fo eafy to find fifty or a hundred. The number of hands, for which employment is to be found, can fcarcely be admitted as a reafon for multiplying the fubjects of manufacture. In fuch a nation as Great Britain, it is difficult

difficult to conceive that the greatest number of hands, that can be comprised in such an establishment, should be great enough to overstock the market: and if this island of ours is not big enough, this globe of ours is still bigger. In many species of manufacture, the work is performed with more and more advantage, as every body knows, the more it can be divided; and in many instances, what sets bounds to that division, is rather the number of hands the master can afford to maintain, than any other circumstance.

When one turns to the Hard-labour Bill, it looks as if the framers of it had been under fome anxiety, to find out bufineffes that they thought might do in their Penitentiary-Houfes, and to make known the refult of their difcoveries. It accordingly proposes for confideration a variety of examples. For fuch of the prifoners as were to be worked the hardeft, *I*. Treading in a wheel, 2. Drawing in a capftern for turning a mill or other machine or engine. 3. Beating hemp. 4. Rasping logwood. 5. Chopping rags. 6. Sawing timber. 7. Working at forges. 8. Smeltings For those who are to be most favoured, making *I*. Topes.

ropes. 2. Weaving facks. 3. Spinning yarn. 4. Knitting nets.

I find fome difficulty, however, in conceiving to what use this instruction was defined, unless it were the edification of that clafs of legiflators, more frequently quoted for worth than knowledge, the country gentlemen. To fome gentlemen of that respectable description, it might for ought I know be matter of confolation, to fee that industry could find for many shapes to affume, on such a stage. But if it was defigned to give a general view of the purposes to which manual labour may be applied, it goes not very far, and there are publications enough that go fome hundreds of times farther. If the former of its two chapters was defigned as a fpecimen of fuch works of a particularly laborious caft, as are capable of being carried on to the greatest advantage, or with least advance of capital, or with the greatest fecurity, against workmen of so refractory a complexionor if either chapten was deftined as a specimen of employments that required least extent of roomin any of these cases the specimen seems not a very happy one. 1. and 2. Of the treading in a wheel or drawing in a capftern for turning a mill, nothing can

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can be faid in respect of pecuniary productivenessi. till the mill, the machine, or the engine are fpecified; nor any thing, that can be found to diftinguish them from other employments, except the room and the expence, which fuch implements feem more particularly to require. 3d. Beating of hemp is a bufiness too proverbial to be unknown to any body, and in those establishments where it has had compulsion for its motive, has not hitherto, I believe, proved a very profitable one; and if I may believe people who are of the trade, and who have no interest to mislead me, hemp beaten by hand, though it takes more labour does not fetch fo good a price, as when beaten at a water-mill. 4th. Rasping logwood is an employment which is faid by Mr. Howard, I think, and others, to be carried on in fome work-houfes of Holland, and I believe to fome profit. But I know it has been carried on likewife by the natural primum-mobiles ; witnefs a windmill, which remember, a tenant of yours employed in this way; and I can conceive few operations, in which those natural powers promise to have greater advantage over the human. 5th. Chopping rags is a bufinefs that can answer no other purpose than the fupplying

Supplying materials for paper-mills, which cannot any where be eftablished without a supply of running-water; an element which, I am fure in many, and I am apt to think, in all paper-mills hitherto established, affords for this operation a primum mobile much more advantageous than human labour. In the 6th, 7th and 8th, examples, viz. fawing timber, working at forges, and fmelting, I fee nothing to diffinguish them very remarkably from three hundred others, that might be mentioned, unlefs it be the great room they all of them occupy, the great and expensive establishment which they suppose, or the dangerous weapons which they put into the hands of any workman who may be disposed to turn that property to account. oth. As to repe-making, which stands at the head of the lefs laborious clafs, befides being, as I always underftood, remarkably otherwife, it has the particular property of taking up more room than, I believe, any other manufacturing employment that was ever thought of. As to the three last articles of the dozen, viz. weaving facks, spinning yarn, and knitting nets, I know of no particular objections that can be made to them. any more than to three fcore others. But, without

out going a stone's throw from the table I am writing upon, I could find more than as many bufi-: neffes, which pay better in England, than these three last in other respects exceptionable ones, which are as eafy to learn, take up as little room, and require a capital nearly or quite as moderate to fet up. By coming here if I have learnt nothing elfe, I have learnt what the human powers are capable of, when unfettered by the arbitrary regulations of an unenlightened age; and gentlemen may fay what they please, but they shall never perfuade me that in England those powers are in any remarkable degree inferior to what they are in Ruffia.* However not having the mantle of legiflation to screen me from the ridicule of going beyond my last, I forbear to specify even what I have under my eye, knowing that in Mr. Arthur Young, a gentleman whom no one can accuse of hiding his candle under a bufhel, any body that chooses it might find an informant, who on this as well as fo many other important fubjects, for

• One of my brother's boys, who had not been at nail making a month, got flogged t'other day for making a knife. Not that at Crecheff there is any law againft ingénuity; but there is againft flealing iron and flealing time.

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every grain of information I could give, could give a thousand.

But, without any disparagement to that gentleman, for whose public spirited labours and well directed talents no man feels greater respect than I do, there are no other persons, who on these same subjects could, for such a purpose, give still more and better information than he, and who would not be less communicative—I mean as before, Mr. Daily Advertiser and his brethren.

There are two points in politics very hard to compais. One is, to perfuade legiflators that they do not understand shoe-making better than shoemakers; the other is, to perfuade shoe-makers that they do not understand legislating better than legislators. The latter point is particularly difficult in our own dear country; but the other is the hardseft of all hard things every where.

LETTER

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LETTER XII.

Contractors Checks.

ſ "HE point then being settled, what trades the people may be employed in, another queftion my contractor will ask is, what powers he is to have put in his hands, as a means of perfuading them to betake themselves to those trades? The shortest way of answering this question will be, to tell him what powers he shall not have. In the first place then, he shall not starve them. What then ! you will fay perhaps, " do you think it likely " that he would ?"-To fpeak the truth, for my own part I have no great fear of it. But others, perhaps might. Befides my notion is, that the law, in guarding itself against men, ought to do just the contrary of what the Judge should do in trying 68

Contractors Checks.

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trying them, especially where there is nothing to be loft by it. The business, you know, of the Judge is to prefume them all honeft till he is forced to sufpect the contrary: the business of the law is, to conclude them all without exception, to be the greatest knaves and villains that can be imagined. My contractor, therefore, I make myfelf fure, would starve them, a good many of them at leaft, if he were let alone. He would starve, of courfe, all whom he could not make pay for their board, together with fomething for his trouble. But as I should get nothing by this economy, and might lose fome credit by it, I have no mind it fhould take place. Bread, though as bad as wholefome bread can be, they shall have then in plenty: this and water and nothing elfe. This they shall be certain of having, and what is of full as much confequence, every body elfe that pleafes shall be certain of their having it. My brethren of the would-be-reforming tribe may go and look at it at the baker's: they may weigh it, if they will, and buy it, and carry it home, and give it to their children or their pigs. It shall be dealt out by found of trumpet, if you please; and Christian starers may amufe themselves with seeing bad bread dealt out

out to felons, as chriftian ambaffadors are entertained with the fight of bags of bad money counted out to Janiffaries. The latter wonder I faw; the other I affure you, would give me much more pleafure.

With this faving claufe, I deliver them over to the extortioner, and let him make the moft of them. Let him fell porter at the price of port: and "humble port" at the price of "imperial tokay:" his cuftomers might grumble, but I don't think you would, and I am fure I fhould not: for it is for that they were put there. Never fear his being fo much his own enemy, as to fland out for a price which nobody will give.

In the next place I don't know that I fhould be for allowing him the power of beating his boarders, nor in fhort of punifhing them in any fhape. Any where elfe, fuch an exemption muft have been vifionary and impracticable. Without either punifhment, or intereft given him in the profits of his labour, an intereft which, to get the better of fo many adverse motives muft have been a pretty ftrong one, how could you have infured a man's doing a fingle ftroke of work ? and, even with fuch intereft, how could you have infured his not F_3 doing

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doing all forts of mifchief? as to mifchief, I obferved to you under the article fafe-cuftody, how eafy their Keeper might make himfelf upon that fcore: and as to work, I flatter myfelf you perceive already, that there need be no great fear of a want of inducements adequate to that purpofe.

If after all it should be infisted, that fome power of correction would be abfolutely neceffary, for instance, in the case of a prisoner's affaulting a Keeper or a Teacher at the time of receiving his food or his instruction, (a case which, though never very probable, would be always poffible) fuch a power, though lefs neceffary here than any where elfe, might on the other hand, be given with lefs danger. What tyranny could fubfift under fuch a perfect facility of complaint as is the refult of fo perfect a facility of Inspection? but on this head a word is fufficient, after what I have faid in confidering the general heads of advantage dependent on this principle. Other checks affiftant to this are obvious enough. A correction-book might be kept in which every inftance of chaftifement, with the caufe for which it was administered, might be entered upon record : any the flightest act of punifhment

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nifhment not entered to be confidered as a lawlefs injury. If these checks be not enough, the prefence of one or more persons, besides him by whom the correction was actually administered, might be required as witnesses of the mode and quantum of correction, and of the alledged cause.

But, befides preventing his ftarving them or using them ill, there is another thing I fhould be much inclined to do in order to make it his interest to take care of them. I would make him pay for much for every one that died, without troubling myself whether any care of his could have kept the man alive. To be fure he would make me pay for this in the contract; but as I should receive it from him afterwards, what it cost me in the long run would be no great matter. He would get underwriter's profit by me; but let him get that and welcome.

Suppose three hundred Prifoners: and that out of that number of persons of their ages, ten, that is one out of thirty ought to die every year, were they taken at large. But persons of their character and in their condition, it may be expected, will

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will die faster than honest men. Say therefore one in twenty, though I believe, as jails stand at present, if no more than one in ten die, or for aught I know out of a much smaller number, it may be thought very well. Give the contractor then for every man that ought to die, for inftance ten pounds : that fum, repeated for every man in twenty among three hundred will amount to a hundred and fifty pounds. Upon these terms, then, at the end of the year make him pay ten pounds for every man that has actually died within that time; to which you may add or escaped, and I dare fay he will have no objection. If by nurfing them and making much of them he should find himself at the end of the year a few pounds the richer by his tendernefs, who would grudge it him? If you have still any doubt of him, inflead of the ten pounds you may put twenty, you will not be much the poorer for it. I don't know upon fecond thoughts whether fome what of this fort has not been put in practice, or at least proposed for foundlings. Be that as it may, make but my contractor's allowance large enough and you need not doubt of his fondness of these his adopted children; of whom whosever may chance while under his wing to depart this vale

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vale of tears, will be fure to leave one fincere mourner at least, without the parade of mourning.

Some perhaps may be for observing, that, upon my own principles, this contrivance would be of no use but to fave the useles; fince the contractor, of himself, knows better things than not to take care of a cow that will give milk. But, with their leave, I do not mean that even the useless should be starved; for if the judges had thought this proper, they would have faid fo.

The patrons of the Hard-labour-Bill, proceeding with that caution and tenderness that pervades their whole fystem, have denied their governor, as they call him, the power of whipping. Some penal power however, for putting a ftop to mifchief was, under their plan, absolutely necessary. They preferred, as the mildest and less dangerous power, that of confining a man in a dark dungeon under ground, under a bread-and-water diet. I did then take the liberty to object, against the choosing by way of punishment the putting of a man into a place, which differed not from other places in any effential particular, but that of the chance it flood of proving unwholefome : propofing, at the fame time, a very fimple expedient, by which

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which their ordinary habitations might be made to receive every other property of a dungeon; in short, the making of them dark.

But in one of my brother's Infpection-houses, there the man is in his dungeon already, (the only fort of dungeon, at leaft, which I conceive any man need be in) very fafe and quiet. He is likewife entertaining himfelf with his bread and water: with only one little circumftance in his favor, that whenever he is tired of that regimen, it is in his own power to put himfelf under a better: unlefs my contractor choofes to fine himfelf for the purpose of punishing his boarder; an act of cruelty which I am in no great dread of.

In fhort, bating the checks you have feen and which certainly are not very complicated, the plan of eftablifhment which fuch a principle of conflruction feems, now at leaft, if not for the first time, to render eligible, and which as fuch I have been venturing to recommend, is exactly upon a par, in point of fimplicity, with the forced and temporary expedient of the *ballaft-lighters*: a plan that has the most perfect fimplicity to recommend it, and, I believe, not much elfe. The chief differences are, that convicts are not in the Infpectionhoufes,

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LETTER

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houles, as in those lighters, jammed together in fetters, under a master subject to no inspection, and scarce under any controul, having no interest in their welfare, or their work, in a place of *fecret* confinement, favourable to insection and to a escapes.

LETTER XIII.

Means of Extracting Labour.

UNDERSTANDING thus much of his fituation, my contractor, I conceive, notwithftanding the checks you have feen, will hardly think it neceffary to afk me, how he is to manage, to perfuade his boarders to fet at work. Having them under this regimen, what better fecurity he can wifh for of their working, and that to their utmoft, I can hardly imagine. At any rate he has much better fecurity, than he can have for the induftry and diligence of any ordinary journeyman at large, who is paid by the day, and not by the piece. If a man won't work, nothing has he to do, from morning to night, but to eat his bad bread and drink his water, without a foul to fpeak

speak to. If he will work, his time is occupied, and he has his meat and his beer, or whatever elfe his earnings may afford him, and not a ftroke does he strike but he gets something, which he would not have got otherwife. This encouragement is ned ceffary to 'his doing his utmost : but more than this is not neceffary. It is neceffary, every exertion he makes should be fure of its reward; but it is not neceffary, that fuch reward be fo great, or any thing near fo great, as he might have had, had he worked elsewhere. This confinement, which is his punifhment, preventing his carrying the work to another market, fubjects him to a monopoly; which the contractor, his mafter, like any other monopolist, makes of course as much of as he can. The workman lives in a poor courtry where wages are low; but in a poor country, a man who is paid according to his work, will exert himself at least as much as in a rich one. According to Mr. Arthur Young, and the very cogent evidence he gives, he should work more: for more work that intelligent traveller finds always done in dear years than in plentiful ones: the earnings of one day affording in the latter cafe, a fund for the extravagance of the next. But

But this is not all. His mafter may fleece him if he pleases, at both ends. After sharing in his profits, he may again take a profit upon his expence. He would probably choose to employ both expedients together; the tax upon earnings if it flood alone, might poffibly appear liable to be evaded in some degree, and be frustrated in some cases, by a confederacy between the workmen and their employers out of doors; the tax upon expenditure, by their frugality : fupposing that virtue to take root in fuch a foil : or in fome inftances, perhaps, by their generofity to their friends without doors .----The tax upon earnings would probably not be laid on in an open way, upon any other than the good hands: whole traffic must be carried on, with or without his intervention, between them and their out-of-door employers. In the trades which he thought proper to fet up of himfelf for his capable hands, his promising hands, and his drones, the tax might be levied in a more covert way by the lowering of the price paid by him in comparison of the free prices given out of doors for fimilar work .---Where he is fure of his men as well with regard to their disposition to spend as with regard to their inability to collude, the tax upon expenditure, without

without any tax upon profits open or covert, would be the leaft difcouraging; it would be the leaft difcouraging for the prefent, as the earnings would found greater to their ears; and with a view to the future, as they would thereby fee (I mean fuch of them as had any hopes of releafement) what their earnings might at that happy period, be expected to amount to, in reality as well as in name.

LETTER

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LETTER XIV.

Provision for Liberated Perfons.

THE circumstance touched upon at the close of my last letter, fuggests another advantage, and that not an inconsiderable one, which you will find more particularly if not exclusively connected with the contract plan.

The turning of the prifoners labour into the most profitable channels being left free, depending upon the joint choice of the two only parties interested in pushing the advantage to the utmost, would afford a resource, and that I should conceive a fure one, for the substitute of the prifoners, after the expiration of their terms. No trade that could be carried on in this state of thraldom but 2 could

Provision for Liberated Persons. 81

could be carried on with at least equal advantage, in a state of liberty. Both parties would probably find their account in continuing their manufacturing connection, after the diffolution of every other. The workman, after the fligma caft on him by the place of his abode, would probably not find it fo easy to get employment elsewhere. If he got it at all, it would be upon terms proportioned in fome measure to the risk which an employer at large might think he would run on his own part, and in fome cafes to the danger of driving away fellow workmen, by the introduction of an affociate who might prove more or lefs unwelcome. He would therefore probably come cheaper to his former mafter than another man would; at the fame time that he would get more from him in his free state than he had been used to get when confined.

Whether this refource was in contemplation with the planners of the Hard-labour Bill, I cannot pretend to fay: I find not upon the face of that bill any proof of the affirmative. It provides a furn for each prifoner, partly for prefent fubfiftence, partly as a fort of little capital to be put into his pocket upon his difcharge. But the fole mea-G fure

\$2 Provision for Liberated Persons.

fure affigned to this fum is the good behaviour of the party, not the fum required to fet him up in whatever might have been his trade. Nor had the choice of his employment been left to the governor of the houfe, ftill lefs to the prifoner; but to committees of juffices, as I obferved before.

As to the Woolwich Academy, all ideas of reformation under that name, and of a continuance of the like industry as a means of future provision, feem there to have been equally out of the queftion. That they should hire lighters of their own to heave ballaft from, does not appear to have been expected; and if any of them had had the fortune to poffefs trades of their own before, the fcraping of gravel for three, five, or feven years together out of the river, had no particular tendency that I can fee, to rub up the recollection of those trades. The allowance upon difcharge would however always have its use, though not always the fame use. It might help to fit them out for trades ; it might ferve them to get drunk with : it might ferve them to buy any houfe-breaking implements which they could not fo well come at to ftend.---The feparation between the landlord and his guefts must on his fide have been sendered the lefs affecting

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ing, by the expectation which he could not but entertain of its proving but a flort one. Nor was fubfequent provision of one fort or other by any means wanting, for those who failed to find it *there*. The gallows was always ready with open arms to receive as many as the jail-fever should have refused.

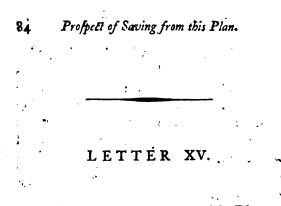
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MANY are the data with which a man ought to be furnished, and with not one of which am I furnished, before he pretended to speak upon any tolerable footing of affurance with regard to the advantage that might be expected in the view of pecuniary economy from the inspection plan. On the one hand, the average annual amount of the present cftablishments, whatever they are, (for I confess I do not know) for the disposal of convicts :--The expected amount of the like average with regard to the measure which I have iust learnt has been refolved upon, for fending colonies of them to New Wales, including

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cluding as well the maintenance of them till shipped, as the expence of the transportation, and the maintenance of them when they are got there :---. On the other hand, the capital proposed to have been expended in the building and fitting up the experi-. mental Penitentiary houfe :----- The further capital . proposed to have been expended in the furniture of . it :- The fum propofed to have been allowed per man for the maintenance of the prifoners till the time when their labour might be expected to yield a produce. These points and a few others being afcertained, I should then be curious to know what degree of productiveness, if any, would be looked upon as giving to the measure of a Penitentiary-house, either of any construction or of this extraordinary one, the pre-eminence upon the whole over any of the other modes of dispofal now in practice or in contemplation. Many diftinct points for the eye to reft upon in fuch a fcale will readily occur-1st. The produce might be barely fufficient to pay the expence of feeding.-2d. It might farther pay the expence of cloathing.-----3d. It might farther pay the expence of guarding and instructing, viz. the falaries or other emoluments of the numerous tribe of vifitors, governors, jailors, G₃

jailors, talk-matters, &c. in the one cafe, and of the contractor and his affiftants in the other.---4th. It might farther pay the wear and tear of the working flock laid in .- 5th. It might farther pay the interest of the capital employed in the purchafe of fuch flock.---oth. It might farther pay the interest of the capital laid out in the erecting and fitting up the eftablishment in all its parts, at the common rate of intereft for money laid out in building .--- 7th. It might farther pay, at the ordinary rate, the interest of the money, if any, laid out in the purchase of the ground. Even at the first mentioned and lowest of these stages, I should be curious to compare the charge of fuch an inftitution with that of the leaft chargeable of those others that are as yet preferred to it. When it had arifen above the laft, then as you fee and not till then, it could be faid to yield a profit, in the fense in which the fame thing could be faid of any manufacturing establishment of a private nature.

But long before that period, the objections of those whose sentiments are the least favourable to such an effablishment would, I take for granted, have

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have been perfectly removed. Yet what should make it ftop any where fhort at the highest of those stages, or what should prevent it from rising even confiderably above the highest of them, is more, I proteft, that I can perceive. On what points a manufacturer fetting up in fuch an eftablishment would be in a worfe fituation than an ordinary manufacturer, I really do not fee: but I fee many points on which he is in a better. His hands indeed are all raw perhaps, at least with relation to the particular species of work which he employs them upon, if not with relation to every other. But fo are all hands every where, at the first fetting up of every manufacture. Look round and you will find infrances enough of manufactures where children, down to four years old, earn fomething, and where children a few years older earn a fublistence, and that a comfortable one. I must leave to you to mention names and places. You, who have been to much of an English traveller, cannot but have met with inftances in plenty, if you have happened to note them down. Many are the inftances you must have found in which the part taken by each workman is reduced to some one fingle operation of fuch perfect sim-G₄ plicity,

plicity, that one might defy the aukwardest and most helpless idler than ever existed to avoid fucceeding in it. Among the eighteen or twenty operations into which the process of pin-making has been divided, I queftion whether there is any one that is not reduced to fuch a ftate. In this point then he is upon at least as good a footing as other manufacturers: but in all other points he is upon a better. What hold can any other manufacturer have upon his workmen, equal to what. my manufacturer would have upon his? What other master is there that can reduce his workmen, if idle, to a fituation next to starving, without fuffering them to go elfewhere? What other mafter is there, whofe men can never get drunk unlefs he chooses they should do so? And who so far from being able to raife their wages by combination, are obliged to take whatever pittance he thinks it most for his interest to allow? In all other manufactories, those members of a family who can and will work must earn enough to maintain not only themfelves but those who either cannot or will not work. Each master of a family must earn enough to maintain, or at leaft help to maintain a wife, and to maintain

tain fuch as are yet helpless among his children. My manufacturers workmen, however crampt in other respects, have the good or ill fortune to be freed from this incumbrance : a freedom, the advantage of which will be no fecret to their mafter, who, feeing he is to have the honour of their cuftom in his capacity of shop-keeper, has taken care to get the measure of their earnings to a hair's breadth. What other manufacturers are there who reap their profits at the rifk of other people, and who have the purfe of the nation to fupport them, in cafe of any blamelefs misfortune?-And to crown the whole by the great advantage which is the peculiar fruit of this new principle, what other master or manufacturer, is there, who to appearance conftantly, and in reality as much as he thinks proper, has every look and motion of each workman under his eye?-Without any of these advantages we see manufacturers, not only keeping their heads above water, but making their fortunes every day. A manufacturer in this fituation may certainly fail, because fo may he in any other. But the probability is he would not fail: becaufe, even without these great advantages much fewer fail than thrive, or the wealth of the country

try could not have gone on increasing as it has done, from the reign of Bratus to the present. And if political establishments were to wait, till probability were converted into certainty before trial, parliament might as well go to bed at once; and sleep on the same pillow with fister convocation.

To speak in fober sadness, I do dearly love, as you well know, in human dealings no lefs than in divine, to think and to fay, as far as confcience will allow me, that " whatever is, is right:" as well concerning those things which are done, as concerning those which have been left undone .--The gentlemen who gave themfelves to much trouble about the Penitentiary-houfe plan, did extremely well; and for aught I know, the gentlemen who put it under the table at last, may have done still better. If you have a mind to share with me in this comfortable feeling, turn once more to that discarded favourite, and observe what load of expence, fome part then necessary, fome perhaps not altogether fo, it was to have thrown upon the nation: and, at the fame time what will be still more comfortable to you, how great a proportion of that expence would be ftruck off, by 4

by the new and of course still greater favorite, which I have ventured to introduce to you.

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In the first place, there was to have been a vast extent of ground; for it was to have had rope walks and timber yards, and it is well it was not to have had dock yards. Then, for the fake of healthineis, that ground was to have a command of running water : then again for the convenience of dignified infpectors, that ground and that water were to have been in the vicinity of the metropolis. It was to have been on the banks of the Thames, fome where I think about Wandfworth and Batterfea; and a fite fit for I know not how many of the most luxurious villas that fancy could conceive or Christie describe, was to be buried under it. Seven and twenty thoufand pounds, I think, was the price talked of, and for aught I know, paid for the bare ground, before fo much as a spade was put in it* As to my contractor, eighteen or twenty acres of the most unprofitable land your country or any other contains, any waste land, in

* I do not recollect from what fource I rock this idea of the fum. I now understand it to have been no more than five thouland pounds.

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fhort, which the crown has already in its pofferfion, would answer every plea he could put in, and out of that he would crib gardens for his own accommodation, and farm yards, and I know not what befides. As to running water, it is indeed to every purpose a very agreeable circumstance, and under the ordinary jail regimen, a very defirable, poffibly an effential one. But many of the Lords and Commons make shift without it, even at their villas, and almost all of them when not at their villas, without afcribing any want of health they may labour under to the want of running water. As to my Contractor's boarders, they must have water indeed, because every body must have water; but under the provision I have made for turning the operations of cleanlines into motions of courfe, I should apprehend their condition might still be tolerable, should they have no other running flock of that neceffary element than what falls to the share of better men.

When the ground thus dearly wrung from the grafp of luxury came to be covered, think what another fource of expence was to be opened, when over and above nine hundred roomy chambers for fo many perfons to *lie* in, three other different claffes

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claffes of apartments were to be provided, to I know not what number nor extent, for them to work in, to pray in, and to *fuffer* in ! four operations, the fcenes of which are, upon our plan, confolidated into one.

I need not add much to what I have faid in a former letter, about the tribe of fubordinate effablifhments, each of them fingly an object of no mean expence, which it feems to have been in contemplation to inclofe within the fortrefs, I mean the mills, the forges, the engines, the timber-yards and the rope-walks. The feal which ftamps my contract difpells, as if it were a talifman, this great town in *nubibus*; and two or three plain round houfes take its place. Either I am much miftaken, or a fum not much exceeding what was paid or defined for the bare ground of the propofed Penitentiary-houfes, would build and completely fit up those round houfes, besides paying for the ground.

To this account of the *dead* flock is to be added, if I may fay it without offence, that of the *live* flock of Inspectors of every rank and denomination; I mean the pyramid of under Keepers, and Tafkmasters, and Storekeepers, and Governors, and

and Committees of Magistrates, which it builds up, all to be paid up and falaried, with allowances rifing in proportion to the rife of dignity: the whole to be crowned with a grand triumvirate of fuperintendants, two of whom were to have been members of Parliament, men of high birth and quality, whole toilfome dignity a minifter would hardly have affronted by the offer of falaries much inferior to what are ftill to be found annexed to functures.

I will not fay much of the "other officers," without number, which I fee, by my View of the Hard-labour Bill, were to have been added, and of courfe must have been added, in fuch number as the "Committees" of your *** to whom this bufinefs was then committed, or at any rate fome other good judges should have judged "neceftary."

Officers and Governors, co nomine, my contractor would have none: and any fuperfluous clerk or over looker, who might be found lurking in his establishment, he would have much lefs tendernefs for, than your gardener has for the fow-thistles in your garden. The greatest part of his fcience comes to his in maxime from his grand-mother; and

and amongst the foremost of those maxims is that which stigmatizes as an unfrugal practice, the keeping of more cats than will catch mice.

If under all these circumstances, the Penitentiary-houses should have been somewhat of a bugbear, it will be the lefs to be wondered at, when one confiders the magnitude of the fcale upon which this complicated experiment was going to be made. I mentioned in round numbers nine hundred as the number of convicts which was going to be provided for; but 888 was the exact number mentioned in the bill. Three eights " thus arranged, a terrible shew !" But granting this to be the number likely to require provision of fome kind or other, it furely does not follow that all that require it must necessarily be provided for in this manner, or in none. If the eight hundred and eighty eight appear to formidable, gentlemen may firike off the hundreds and try whether the country will be ruined by an eftablishment inferior to that which an obscure ex-countryman of theirs is going to amufe himfelf with.

What I have all along been taking for granted is, that it is the mere dread of extravagance that has driven your thrifty minister from the Peniten-

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tiary-house plan, not the love of transportation that has feduced him from it. The inferiority of the latter mode of punifhment in point of exemplarity and equality, in fhort in every point but that of expence, ftands, I believe undifputed. I collected, the reasons against it, that were in every body's mouth, and marked them down, with I think fome additions (as you may or may not remember) in my view of the Hard-labour Bill, fupplement included. I have never happened to hear any objections made to those reasons: nor have I heard of any charms, other than those of antiquity and comparative frugality, that transportation has to recommend it. Supposing therefore what I most certainly do not fuppole, that my contractor could not keep his people at home at lefs expense than it would take to fend them abroad, yet if he could keep them at no greater expense, I fhould prefume that even this would be reckoned no fmall point gained. and that even this very moderate fuccefs would be fufficient to put an end to fo undefirable a branch of navigation.

Nor does any preference that might be given to the transportation plan, superfede the necessity of this or fome other fubftitute to it, in the many calos

cafes to which it cannot be conceived that plan fhould be extended. Transportation to this detert for feven years, a punishment which under fuch circumstances is fo much like transportation for life, is not I suppose, to be inflicted for every peccadillo. Veffels will not be failing every week or fortnight upon this four or five or fix months navigation: hardly much oftener, I should suppose, than once a twelvemonth. In the mean time the convicts must be fome where: and whether they are likely to be better qualified for colonization by lounging in an ordinary jail, or rotting on board a ballast Hulk, or working in an Inspection-house, smay now, I think, be left for any one to judge.

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Houses of Correction.

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LETTER XVI.

Houses of Correction.

TN confidering my brother's infpection plan as A applicable to the purpose of establishments defigned to force labour, my principal theme has hithere been the national establishment of Penitentiary-houses. My first defign, however, was to help to drive the nail I faw a going ; I mean the Houfe of Correction, which the advertisement informed me was under confideration for your ****. I had little notion, at the outfet, of attempting any fuch uphill work as the heaving up again that huge stone, the Penitentiary-bouse, which the builders at last had refused, and which, after the toiling and straining of fo many years, had tumbled to the bottom. But the greater object grew upon me as I wrote; and what I found to fay on that fubject I grudged the lefs, as thinking it might

Houses of Correction.

might, most of it, be more or less applicable to your establishment. How far, and in what particular refpects it may prove fo, I have no means of knowing; I trouble you with it at a venture. In my laft I proposed, if the nation were poor and fearful, a Penitentiary-houfe upon a very fmall scale, fo fmall, if fuch caution were thought neceffary, as not to contain fo many as a hundred prifoners. But however poor the nation may be, the ***** of **** furely is rich. What then should hinder your ***** from standing forth and fetting the nation an example? what the number of perfons you may have to provide for in this way is fuppofed to be, I have no means of knowing; but I should think it strange, if it did not confiderably exceed the one just mentioned. What it is you will risk by fuch an experiment, is more than I can fee. As far as the building is concerned, it is a queftion which architects, and they alone, can answer. In the mean time, we who know nothing of the matter, can find no reafon, all things confidered, why a building upon this plan should coft more than upon another. But fetting alide the building, every other difference is on the profitable fide.

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Houses of Correction.

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The precautions against escapes, and the reftraints deftined to answer the ends of punishment, would not I suppose in your establishment be quite fo ftrict, as it would be neceffary they should be in an establishment designed to answer the purpose of a Penitentiary-house. Bars, bolts, and gratings would in this of your's, I suppose, be rejected :--and the inexorable Partition-walls, might for fome purposes be thinned away to boards or canvais, and for others thrown out altogether. With you, the gloomy paradox of crouded folitude might be exchanged perhaps for the chearfulnels of a common refectory. The Sabbath might be a Sabbath there as elfewhere. In the Penitentiary Infpection-house the prifoners were to lie, as they were to eat, to work, to pray, and to do every thing, in their Cells, and no where elfe. In your House of Correction, where they fhould lie, or how they fhould lie, I stay not to enquire.

It is well however for you **** gentlemen, that you are fo rich; for in point of frugality, I could not venture to promife you any thing like the fuccefs that I would to " poor old England." Your Contractor's jail-birds, if you had a Contractor, would be perpetually upon the wing: the fhort

itize ...

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fhort terms you would be fending them to him for, would feldom admit of their attaining to fuch a proficiency, as to make a profit upon any branch of induftry. In general, what in a former letter I termed the good hands, would be his chief, if not his whole dependence; and that, I doubt, but a fcanty one.

I will not pefter you with further niceties applicable to the difference between Houles of Correction, and Work-boules, and Poor-houles, if any there should be, which are not work-houses; between the different modes of treatment that may be due, to what are looked upon as the inferior degrees of discovery, to idleness as yet untainted with discovery, and to blameless indigence. The law herself has fearcely eyes for these microscopic differences. I bow down therefore, for the prefent at least, to the counsel of for many fages, and shrink from the crime of being " wifer than the law."

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LETTER

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LETTER XVIL

Prifons for Safe Cuftody merely.

WORD or two respecting the condition of offenders before conviction : or, if that exprestion should appear to include a folecism, of perfons accused, who either for want of bail or as charged with offences not bailable, have hitherto been made, through negligence or neceffity, to share by anticipation fo much of the fate of convicts, as imprifonment more or less rigid may amount to.

To perfons thus circumflanced, the infpection principle would apply, as far as Safe Cufledy was concerned, with as much advantage as to convicts. But as there can be no ground for punishing them, any otherwise than in fo far as the *reftraint* necesfary for Safe Custody has the effect of punishment, there can be as little ground for subjecting them to folitude; unless where that circumflance should also appear necessary, either to Safe Custody, or to prevent

Prifons for Safe Cuflody merely. 103

prevent that mental infection, which novices in the arts of dishonesty, and in debauchery the parent of difhonefty, are fo much in danger of contracting, from the mafters of those arts. In this view therefore the partitions might appear to fome an unneceffary ingredient in the composition of the building: though I confess, from the confideration just alledged, they would not appear in that light to me. Communication must likewife be allowed to the prifoners with their friends and legal affiftants, for the purpole of fettling their affairs, and concerting their defence.

As forced labour is punifhment, labour must not here be forced. For the fame reason, and becaufe the privation of fuch comforts of any kind as a man's circumstances allow him is also punishment, neither should the free admission of such comforts, as far as is confiftent with sobriety, be denied; nor, if the keeper is permitted to concern himfelf in any part of the trade, should be permitted to make a greater profit than would be made by other traders.

But amonft perfons of fuch description and in fuch a multitude, there will always be a certain number, nor that probably an inconfiderable one, who

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who will poffers no means of fublistence whatever of their own. These then will; in so far, come under a predicament not very diffimilar to that of convicts in a Penitentiary-houfe. Whatever works they may be capable of; there is no reafon why fubfiftence should be given to them, any more than to perfons free from fuspicion and at large, but as the price for work, fuppofing them able to perform it. But as this ability is a fact, the judging of which is a matter of great nicety, too much it may be thought by far to be intrusted to fuch hands, if to any, fome allowance must therefore be made them gratis, and that at least as good a one/as I recommended for the Penitentiary-house. In order to supply the defects of this allowance, the point then will be, to provide fome fort of work for fuch, who not having trades of their own which they can work at; are yet willing to take work, if they can get it. If to find fuch work might be difficult, even in a House of Correction, on accountrof the shortness of the time which there may be for learning work, for the fame reason it should be still more difficult, in a prison appropriated to Safe-Cuftody before conviction, at least in cafes where, as it will fometimes happen; the commitment

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Brisons for Safe Custody merely. 105

mitment precedes the trial but a few days. If on the ground of being particularly likely to have it in his power to provide work, the contracting keeper of a Penitentiary-house should be deemed the fittest perfon for the keeping of a Safe-Cuftodybouse (for fo I would wish to call it rather than a prison) in other respects he might be thought lefs fit, rather than more fo. In a Penitentiary-house he is an extortioner by trade : a trade he must wholly learn, every time he fets his foot in a Safe-Cuftody-house, on pain of fuch punishshent as unlicenfed extortioners may deferve.. But it by nomeans follows, because the keeper of a Penitentiary house has found one or perhaps half a dozen forts. of work, any of which a perfon may make himfelf tolerably mafter of in the course of a few months, that he should be in possession of any that might be performed without learning, or learnt in a few days. If therefore, for frugality's fake, or any other convenience, any other establishments were taken to combine with that of a Safe-Cuftodyhouse, a House of Correction would seem better fuited to fuch a purpofe, than a Penitentiary-houfe. But without confidering it as matter of necessity to have recourse to such shifts, the eligibility of which might

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might depend upon local and other particular confiderations, I fhould hope that employments would not be wanting, and those capable of affording a moderately good fablistence, for which a man of ordinary faculties would be as well qualified the first instant as at the end of seven years. I could almost venture to mention examples, but that the seafons so often given stop my pen.



Manufactories, 307

LETTER XVIII,

Manufactories.

A FTER to much as has been faid, on the application of our principle to the bufinels of manufactories confidered as carried on by forced labour, you will think avery few words more than fufficient, in the view of applying it to manufactures carried on upon the ordinary plan of freedom.

The centrality of the prefiding perfort's fituation will have its use at all events; for the purpose of direction and order at least, if for no other. The concealment of his perfon will be of use, in as far as controul may be judged useful. As to partitions, whether they would be more ferviceable in the way of preventing distraction, or differviceable by impeding communication, will depend upon the particular nature of the particular manufacture. In fome manufactories they will have a further use, by the convenience they may afford for ranging

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ranging a greater number of tools than could otherwife be flowed, within the workman's reach. In nice bufineffes, fuch as that of watch-making, where confiderable damage might refult from an accidental jog or a momentary diffraction, fuckpartitions, I underfland, are ufual.

Whatever be the manufacture, the utility of the principle is obvious and incontestible, in all enses where the workmen are paid according to their time. Where they are paid by the piece, there the interest which the workman has in the value of his work superfedes the use of coercion, and of every expedient calculated to give force to it. In this case, I see no other use to be made of the inspection principle, than in as far as instruction may be wanted, or in the view of preventing any waste or other damage, which would not of itself come home to the workman, in the way of diminiss the earnings, or in any other stape.

Were a manufactory of any kind to be eftablished upon this principle, the *central Lodge* would probably be made use of as the compting-house: and if more branches than one were carried on under the fame roof, the accounts belonging to each branch would be kept in the corresponding parts of the

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Manufattories.

• the Lodge. The Lodge would also ferve as a fort of temporary flore-room, into which the tools and materials would be brought from the work-houfes, and from whence they would be delivered out to othe workmen all around, as well as finished twork received, as occasion might require.

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LETTER

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Mad-Houfes.

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LETTER XIX.

Mad-Houses.

I COME now with pleafure, notwithftanding the fadnefs of the fubject, to an inftance in which the application of the principle will be of the lenient caft altogether; I mean of the melancholy abodes appropriated to the reception of the infane. And here, perhaps, a noble Lord now in adminiftration might find fome little affiftance lent, to the humane and falutary regulations for which we are chiefly indebted to his care.*

That any of the receptacles at prefent fublifting fhould be pulled down only to make room for others on the infpection principle, is neither to be expected nor to be wifhed. But, fhould any buildings that may be erected in future for this purpose, be made to receive the infpection form,

* Lord Sydney; who in the Houfe of Commons brought in the bill for the regulation of Mad-Houfes, which afterwards paffed into an act.

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Mad-Houfes.

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the object of fuch inftitutions could fcarce fail of receiving fome thare of its falutary influence .---The powers of the infane, as well as those of the wicked, are capable of being directed either against their fellow-creatures or against themselves. If, in the latter cafe nothing lefs than perpetual chains should be availing, yet in all instances where only the former danger is to be apprehended, feparate Cells, exposed, as in the case of prisons to inspecstion, would render the use of chains and other modes of corporal fufferance as unneceffary in this cafe as in any. And with regard to the conduct of the keepers, and the need which the patients have to be kept, the natural and not difcommend-.able jealoufy of abufe would, in this inftance as in the former ones, find a much readier fatisfaction than it could any where at prefent.

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But without thinking of erecting Mad-Houfes on purpole, if we alk Mr. Howard, he will tell us, if I do not mifrecollect, that there are few prifons or work-houfes but what are applied occafionally to this ufe. Indeed a receptacle of one or other of these descriptions is the ready, and I believe the only refource, which magistrates find vested in their hands. Hence it was, he so often found his fenses

.Mad-Houfes.

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fenfes affailed with that firange and unfeemly mixture of calamity and guilt; lunatics raving and felons rioting in the fame room. But in every penal Infpection-houfe, every vacant Cell would afford these afflicted beings an apartment exempt from diffurbance, and adapted to their wants.

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Ho/pitals.

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LETTER XX.

Hofpitals

TF any thing could ftill be wanting to fhew how I far this plan is from any neceffary connection with fevere and coercive measures, there cannot be, a ftronger confideration than that of the advantage . with which it applies to Hofpitals : eftablishments of which the fole object is the relief of the afflicted whom their own entreaties have introduced. Tenacious as ever of the principle of omnipresence, I take it for granted that the whole tribe of medical curators, the furgeon, the apothecary, the matron, to whom I could with to add even the physician, could the establishment be but sufficient to make it worth his while, find in the Infpection-Lodge and what apartments might be added above it, their conftant refidence. Here the phyfician and the apothecary might know with certainty, that the prefcription which the one had ordered and the ether Ι

Hospitals.

other made up, had been administered at the exact time, and in the exact manner in which it was ordered to be administered. Here the furgeon would be fure that his inftructions and directions had been followed in all points, by his pupils and affiftants. Here the faculty in all its branches, might with the least trouble possible, watch as much as they choic to watch, of the progress of the difease and the influence of the remedy. Complaints from the fick might be received, the inftant the caufe of the complaint, real or imaginary, occurred: though, as milconduct would be followed by inftant reprehension, such complaints must be proportionably rare.

The feparation of the Cells might be in part continued either for comfort, or for decency. Curtains inflead of grating, would give the patients, when they thought fit, the option of being feen. Partitions of greater folidity, and extent, might divide the fabric into different wards, confining infection, adapting themselves to the varieties of difeafe, and affording upon occasion diversities of temperature.

In hot weather to fave the room from being heated, and the patients from being incommoded by

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Ho/pitals.

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by the fun, *fhades* or awnings might fecure the windows towards the fouth.

I do not mean to entertain you here with a fyftem of physic, or a treatife upon airs. But a word or two on this fubject you must permit me .--Would the cielings of the Cell be high enough? Is the plan of construction sufficiently favourable to ventilation? I have not the good fortune to have read a book published not long ago on the fubject of hospitals, by our countryman Mr. Aikin ; though I remember feeing fome account of it in a Review. But I cannot help begging of you to recommend to the notice of your medical friends the perusal of Dr. De Maret's paper, in the Memoirs of the Academy of Dijon for the year 1782. If either his facts or his reasoning are to be trufted, not only no loftine's of ceiling is fufficient to enfure to fuch a building a purity of air, but it may appear questionable whether such an effect be upon the whole promoted by that circumftance.*

* To an Hofpital lately built at Lyons a wast dome had been given in this view. It had been expected that the foul air should be found at top, while that near the floor fhould have been facet and wholeforme. On the contrary, fubstances which turned putrid at the bottom in a fingle day, remained fweet above at the end of five days. His

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Hospitals.

His great anxiety feems to be, that at fome known period or periods of the day, the whole mais of air may undergo at once a total change, not trufting to partial and precarious evacuations by opening here and there a window; ftill lefs to any height or other amplitude of room; a circumftance which of itfelf tends to render them still more partial and precarious. Proferibing all rectilinear walls and flat cielings forming angles at the junctions, he recommends accordingly for the infide of his building, the form of a long oval, curved in every direction except that of the floor, placing a door at each end. By throwing open thefe doors, he feems to make it pretty apparent, that the finalleft draught will be fufficient to effect an entire change in the whole flock of air : fince at which ever end a current of air happens first to enter, it will carry all before it till it gets to the other. Opening windows or other apertures difpofed in any other part of the room, would tend rather to diffurb and counteract the current than to promote it.

From the fame reafoning it will follow, that the *circular* form demanded as the beft of all by the infpection principle, must in a view to ventilation have

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have in a confiderable degree the advantage over rectilinear: and even, were the difference fufficiently material, the infpection principle might be applied to his oval with little or no difadvantage. The form of the Infpection Lodge might in this cafe follow that of the containing building; and that central part fo far from obftructing the ventilation, would rather as it should feem, affift it, encreasing the force of the current by the compreffure.

It fhould feem alfo, that to a circular building the central Lodge would thus give the fame aptitude to ventilation, which the Doctor's oval form polfeffes of itfelf.

To fave his patients from catching cold while the current is paffing through the room, the Doctor allows to each a flort *fcreen*, like the head of a cradle, to be refted on the bed.

Here the ufe of the tin *fpeaking-tubes* would be feen again, in the means they would afford to the patient, though he were equal to no more than a whifper, of conveying to the Lodge the most immediate notice of his wants: and receiving anfwers in a tone equally unproductive of diffurbance.

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Hospitals.

Something I could have wifhed to fay, on the important difference between the general and comparatively immaterial impurity refulting merely from the *pblogiflon*, and the various particular impurities conflictuted by the various products of patrefaction, or by the different matters of the various contagions. Against these very different dangers the mode and measure of precaution might admit of no small difference. But this belongs not neceffarily to the fubject, and you would not thank me, any more than gentlemen of the faculty who understand it better than I, or gentlemen at large who would not wish to understand it.

An hofpital built and conducted upon a plan of this kind, of the fuccefs of which every body might be an obferver, acceffible to the patients friends, who, without incommoding or being incommoded, might fee the whole economy of it carried on under their eye, would lofe, it is to be hoped, a great part of thofe repelling terrors, which deprive of the benefit of fuch institutions many objects whom prejudice in league with poverty, either debars altogether from relief, or drives to feek it in much lefs eligible fhapes. Who knows but that the certainty of a medical attendance not occafional,

Ho/pitals.

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occasional, fhort lived, or even precarious, as at prefent, but conftant and uninterrupted, might not render fuch a fituation preferable even to home, in the eyes of many perfons who could afford to pay for it i and that the erection of a building of this kind might turn to account in the hands of fome enterprizing practitioner i

A Pri/on, as I observed in a former letter, includes an hospital. In prisons on this construction, every Cell may receive the properties of an hospital, without undergoing any change. The whole prison would be perhaps a better hospital than any building known hitherto by that name. Yet should it be thought of use, a few Cells might be appropriated to that purpose; and perhaps it may be thought advisable that some cases of infection should be thrown out and lodged under another roof.

But if infection in general must be fent to be eured elfewhere, there is no fpot in which infection originating in negligence can, either in the rife or fpread of it, meet with fuch obstacles as here. In what other instance as in this, will you fee the interests of the governor and the governed in this important particular, fo perfectly confounded and I 4. made

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made one? Those of the keeper with those of the prisoners, those of the medical curator with those of the patients? Clean or unclean, fase or unsafe, he runs the chance that they do: if he lets them poison themselves, he lets them poison him. Encompassed on all fides by a multitude of persons whose good or bad condition depends upon himself, he stands as a host age in his own hands for the salubrity of the whole.

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LETTER

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LETTER XXL

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A FTER applying the infpection principle first to Prifons, and through Mad-Houfes bringing it down to Hofpitals, will the parental feelings endure my applying it at last to Schools? Will the obfervation of its efficacy in preventing the irregular application of undue hardship even to the guilty, be fufficient to difpel the apprehension of its tendency to introduce tyranny into the abodes of innocence and youth?

Applied to thefe you will find it capable of two very diffinguifhable degrees of extension. It may be confined to the hours of fludy; or it may be made to fill the whole circle of time, including the hours of repole, and refreshment and recreation.

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To the first of these applications the most captious timidity, I think, could hardly fancy an objection : concerning the hours of ftudy, there can, I think, be but one wish, that they should be employed in fludy. It is fcarce neceffary to observe, that gratings, bars, and bolts, and every circumftance from which an Infpection-house can derive a terrific character, have nothing to do here. Alľ play, all chattering, in thort all diffraction of every kind, is effectually banifhed by the central' and covered fituation of the mafter, feconded by partitions or fcreens between the fcholars as flight as you pleafe. The different meafures and cafts of talent, by this means rendered perhaps for the first time diftinctly difcernible, will indicate the different degrees of attention and modes of culture moft fuitable to each particular difpolition; and incurable and irreproachable dulnefs or imbecility will' no longer be punished for the fins of idleness or obstinacy. That species of fraud at Westminster called cribbing, a vice thought hitherto congenial to fchools, will never creep in here. That fystem of premature corruption, in which idlenefs is fcreened by opulence, and the honour due to talents or industry is let out for hire, will be compleatly:

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ly done away; and a nobleman may stand as good

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a chance of knowing fomething as a common man. Nor, in point of prefent enjoyment, will the fcholars be lofers by the change. Those finkings of the heart at the thoughts of a task undone, those galling struggles between the passion for play and the fear of punishment, would there be unknown. During the hours of business, habit, no longer broken in upon by accident, would strip the maiter's prefence of its terrors, without depriving it of its use. And the time allotted for study being faithfully and rigidly appropriated to that fervice, the lefs of it would ferve.

The feparate fpaces allotted for this purpole, would not in other refpects be thrown away. A bed, a bureau, and a chair muft be had at any rate; fo that the only extraordinary expence inbuilding would be for the *partitions*, for which a very flight thicknefs would fuffice. The youth of either fex might by this means fleep, as well as fludy, under infjection and alone; a circumftance of no mean importance in many a parent's eye.

In the Royal Military School at Paris, the bedchambers (if my brother's memory does not deseive him) form two ranges on the two fides of a long

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a long room ; the inhabitants being feparated from one another by *partitions*, but exposed alike to the view of a master at his walks, by a kind of a grated window in each door. This plan of conftruction ftruck him, he tells me, a good deal, as he walked over that establishment (about a dozen years ago was it not?) with you; and possibly in that walk the foundation was laid for his Infpection-House. If he there borrowed his idea, I hope he has not repaid it without interest. You will confess fome difference, in point of facility, betwixt a state of incessant walking and a state of rest: and in point of compleatness of infpection, between visiting two or three hundred perfons one after another, and feeing them at once.

In stating what this principle will do, in promoting the progress of instruction in every line, a word or two will be thought sufficient to state what it will not do. It does give every degree of essicacy which can be given to the influence of *puniforment* and restraint. But it does nothing towards correcting the oppressive influence of punishment and restraint, by the enlivening and inwigorating influence of reward. That nobless and brightess engine of discipline can by no other means

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means be put to conftant use in Schools, than by the practice which at *Westminster*, you know, goes by the name of *challenging*: an infitution, which paying merit in its fittest and most inexhaustible coin, and even uniting in one impulse the opposite powers of reward and punishment, holds out dishonor for every attention a boy omits, and honour for every exertion he can bestow.

With regard to the extending the range of inspection over every moment of a boy's time, the fentiments of mankind might not be altogether fo unanimous. The notion indeed of most parents is, I believe, that children cannot be too much. under the master's eye: and if man were a confiftent animal, none who entertain that notion, but should be fonder of the principle the farther they faw it purfued. But as confiftency is of all human qualities the most rare, it need not at all furprize us, if, of those who in the present state of things are most anxious on the head of the master's omniprefence, many were to fly back and change their note, when they faw that point fcrewed up at once to a pitch of perfection, fo much beyond whatever they could have been accustomed to conceive.

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Some there are at any rate, who before they came into fo novel a fcheme, would have many fcruples to get over. Doubts would be ftarted-whether it would be advifable to apply fuch conftant and unremitting preffure to the tender mind, and to give fuch herculean and includible ftrength to the gripe of power ?---Whether perfons, of the caft of character and extent of ideas that may be expected to be found in the common run of School-masters, are likely to be fit receptacles for an authority fo much exceeding any thing that has been hitherto fignified by defpetic? Whether the in-attention of the mafter may not be as necessary to the prefent comfort of his pupil, in fome respects, as the attention of the one may be to the future welfare of the other, in other respects?----Whether the irretrievable check given to the free development of the intellectual part of his frame by this unintermitted preffure, may not be productive of an imbecility fimilar to that which would be produced by conftant and long continued bandages on the corporeal part ?---Whether what is thus acquired in regularity may not be loft in energy?-Whether that not lefs instructive, though lefs heeded, courfe of discipline, which in the struggles of passion againft

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against pation, and of reason against reason, is administered by the children to one another and to themfelves, and in which the conflicts and competitions that are to form the business of maturity are rehearled in miniature; whether I fay, this moral and most important branch of instruction, would not by these means be facrificed, to the rudiments and those feldom the most useful, of the intellectual ?- Whether the defects, with which private education has been charged in its comparifon with public, would not here be carried to the extreme ?- And whether, in being made a little better acquainted with the world of abstraction than they might have been otherwife, the youth thus pent up may not have been kept more than proportionably more ignorant of the world of realities into which they are about to launch ?---Whe-ther the liberal spirit and energy of a free citizen would not be exchanged for the mechanical difcipline of a foldier, or the aufterity of a monk? And whether the refult of this high-wrought contrivance might not be conftructing a set of machines under the fimilitude of men?

To give a fatisfactory answer to all these queries which are mighty fine, but do not any of them come

Schools.

come home to the point, it would be neceffary to recur at once to the end of education .-- Would happiness be most likely to be encreased or diminished by this discipline?-----Call them foldiers, call them monks, call them machines, fo they were but happy ones, I should not care. Wars and ftorms are beft to read of, but peace and calms are better to enjoy. Don't be frightened now, my dear ******, and think that I am going to entertain you with a course of moral philofophy, or even with a fystem of education. Happinefs is a very pretty thing to feel, but very dry to talk about : fo you may unknit your brow, for I shall fay no more about the matter. One thing only I will add, which is, that whoever fets up an Infpection-fchool upon the tip top of the principle, had need to be very fure of the mafter : for the boy's body is not more the child of his father's, than his mind will be of the mafter's mind ; with no other difference than what there is between command on one fide and fubjection on the other.

Some of these fine queries which I have been treating you with, and finer ftill, *Rouffeau* would have entertained us with; nor do I imagine he would have put his *Emilius* into an Inspectionhouse

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house: but I think he would have been glad of such a school for his Sophia.

Addison, the grave and moral Addison, in his Spectator or his Tatler, I forget which, fuggefts a contrivance for trying virginity by means of liens. -You may there find many curious disquisitions concerning the measures and degrees of that species of purity; all which you will be better pleafed to have from that grave author than from me. But, without plunging into any fuch discuffions, the highest degree possible, whatsoever that may be, is no more than any body might make fure of, only by transferring damfels at as early an age as may be thought fufficient, into a strict Inspection-School. Addifon's fcheme was not only a penal but a bloody one: and what havock it might have made in the population of the country, I tremble but to think of. Give thanks then to Diana and the eleven thousand virgins, and to whatever powers prefide over virginity in either calendar, for fo happy a discovery as this of your friend's. There you faw blood and uncertainty : here you fee certainty without blood. What advantage might be made by fetting up a Boarding-school for young ladies upon this plan, and with what eageracis gentlemen K

Schools.

gentlemen who are curious in fuch matters would crowd to fuch a School to choofe themfelves wives, is too obvious to infift on. The only inconvenience I can think of is, that if the infitution were to become general, Mrs. Ch. H. and other gentlewomen of her calling, would be obliged either to give up houfe-keeping, or take up with low wenches or married ladics.

Dr. Brown the effimator would have been ftark mad for an Infpection-School upon the very extremity of the principle: provided always he were to have been head-mafter: and then he would have had no other fchools but thofe. His antagonift, Dr. Prieftly, would, I imagine, be altogether as averfe to it: unkefs perhaps for experiment's fake, upon a fmall fcale, juft enough to furnifh an appendix to Hartley upon Man.

You have a controverfy, I find, in England, about Sunday-Schools. Schools upon the extremity of the Infpection-principle would, I am apt to think, find more advocates among the patrons, than among the oppugners, of that measure.

We are told, fomewhere or other, of a King of Egypt (*Pfammitichus* I think is his name) who thinking to re-difcover the loft original of language contrived

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contrived to breed up two children in a fequestered fpot, fecluded, from the hour of their birth, from all converse with the rest of human kind. No great matters were, I believe, collected from this experiment. An Infpection-house, to which a set of children had been configned from their birth, might afford experiments enough that would be rather more interesting. What fay you to a Foundling Hofpital upon this principle? Would ****'s manes give you leave to let your prefent school and build another upon this ground? If I do not mifrecollect, your brethren in that truft have gone fo far as to make a point, where it can be effected, of taking the children out of the hands of their parents as much as poffible, and even, if poffible, altogether. If you have gone thus far, you have patted the Rubicon; you may even clap them up in an Infpection-houfe, and then you make of them what you pleafe. You need never grudge the parents a peep behind the curtain in the Master's. Lodge. There, as often as they had a mind, they. might fee their children thriving and learning, if that would fatisfy them, without interrupting bufinefs or counteracting discipline. Improving upon Plammitichus's experiment, you might keep up a fixteen K 2

Schools.

fixteen or eighteen years feparation between the male and female part of your young fubjects; and at the end of that period fee what the language of love would be, when *Father Francis's Ganders* were turned in to *Father Francis's Geefe*.

I know who would have been delighted to fet up an Infpection-School, if it were only for the experiment's fake, and that is *Helvetius*: at leaft if he had been fleady to his principles; which he was faid to be: for by that contrivance, and by that alone, he might have been enabled to give an experimental proof of the truth of his polition (fuppoling it to be true) that any body may be taught any thing, one perfon as well as another. It would have been his fault, if what he requires as a condition, viz. that the fubjects of the experiment be placed in circumftances exactly fimilar, were not fulfilled.

A rare field for difcovery in *metaphyfics*: a fcience which, now for the first time, may be put to the test of experiment, like any other. Books, conversation, fensible objects, every thing might be given. The genealogy of each observable idea might be traced through all its degrees, with the utmost nicety.: the parent stocks being all known and

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and numbered. Party men, controvertialists of every defcription, and all other fuch epicures, whole mouth waters at the mammon of power, might here give themfelves a rich treat, adapted to their feveral taftes, unembittered by contradiction. Two and two might here be less than four, or the moon might be made of green cheefe; if any pious founder, who were rich enough, chose to have her of that material. Surrounded by a circle of pupils, obsequious beyond any thing as yet known under: the name of obsequiousness, their happiness mightin fuch a manfion be compleat, if any moderate number of adherents could content them; which unhappily is not the cafe. At the end of fome twenty or five and twenty years, introduce the Scholars of the different Schools to one another (obferving first to tie their hands behind them) and you will fee good fport; though perhaps you may think there is enough of that kind of fport already. But if you throw out this hint to any body, you willtake care, as far as fects and religions are concerned, not to mention names; for of these how few are there but would be ready to pull us to pieces, if they faw their rivals fet down upon the fame line, as candidates for the fame advantage ?-And this K 3

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this is what we should get by our impartiality.-You may however venture to hint, that the money which is now laid out for propagating controverfy, by founding fermons and lectures, might be laid out with greater certainty of advantage in the founding controverstat Inspection-Schools. The preachers must be fad bunglers indeed, if they had not there as many adherents as auditors; which is not always the cafe in the world at large. As toflagellation; and other fuch ceremonies, which more through cuftom than neceffity, are used by way of punishment in schools, but which under fome inflitutions form the routine of life, I need not take up your time in fhewing, how much the punctuality of those transactions might, in the latter cafe, be improved by the infpection principle. These monastic accomplishments have not been in fashion in our country for some ages :--therefore it would be loft labour to recommend the principle in that view. Neither are they a whit more fo where I write; fo that I should get as little thanks for my pains, were I to make fuch a propofal here. On the contrary we are diffolving monasteries as you would lumps of fugar. A lump for instance, we got the other day at Kieff

Schook.

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Kieff, enough to feed a brace of regiments, befides pickings for other people. But if in my return to England, or at any other time, I should happen to go by the monastery of La Trappe, or any other where they are in earnest about such bufines, it would be cruelty to deny them the affistance it might be made to receive from the inspection principle. Flinching would then be as impracticable in a monastery, as cribbing in a Schools Old scores might thus be rubbed out with as much regularity as could be defired; nor would the pride of Tobolo have been so long a difenchanting, could her Knight have put his coward Squire into an Inspection-house.

Neither do I mean to give any infructions to the *Turks* for applying the infpection principle to their *Seraglios*: no not though I were to go through *Conflantinople* again twenty times, notwithftanding the great faving it would make in the article of *eunuchs*, of whom one trufty one, in the Infpection Lodge would be as good as half a hundred. The price of that kind of cattle could not fail of falling at leaft ten per cent. and the infurance upon marital honor at leaft as much, upon the bare hint given of fuch an eftablifhment, in any

of

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of the Conffantinople papers. But the mobbing **F** got at *Shoomlo*, only for taking a peep at the town from a thing they call a *minaret* (like our monument) in purfuance of invitation, has cancelled any claims they might have had upon me for the dinner they gave me at the *Divon*, had it been better than it was.

If the idea of fome of these applications should have brought a fmile upon your countenance, it won't hurt you, my dear **** nor should it hurt the principle. Your candour will prevent you from condemning a great and new invented instrument of government, because fome of the purposes to which it is possible to apply it may appear useless, or trifling, or mischievous, or ridiculous. Its great excellence confifts, in the great ftrength it is capable of giving to any inftitution it may be thought proper to apply it to. If any perverse applications should ever be made of it, they will lie in this cafe as in others, at the doors of those who make them. Knives however tharp, are very useful things, and, for most purposes, the sharper the more useful. I have no fear therefore of your withing to forbid the use of them, because they have been fometimes employed by fchool-boys

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so raife the devil with, or by affaffins to cut throats with.

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I hope no critic of more learning than candour will do an Infpection-house fo much injustice as to compare it to Diony fins's ear. The object of that contrivance was, to know what prifoners faid without their fuspecting any fuch thing. The object of the infpection principle is directly the reverfe; it is to make them not only *sufpect*, but be affured, that whatever they do is known, even though that should not be the case. Detection is the object of the first : prevention, that of the latter. In the former cafe the ruling perfon is a fpy; in the latter he is a monitor. The object of the first was to pry into the fecret receffes of the heart; the latter, confining its attention to overt acts, leaves thoughts and fancies to their proper ordinary, the court above.

When I confider the extensive variety of purposes to which this principle may be applied, and the certain efficacy which, as far as I can trusk my own conceptions, it promises to them all, my wonder is, not only this plan should never have hitherto been put in practice, but how any other should ever have been thought of.

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In fo many edifices, as, from the time of the Conquest to the present, have been built for, the express purpose of fafe-custody, does it found natural that, instead of placing the prisoners underthe infpection of their keepers, the one clafs fhould. have been lodged at one end, perhaps, of a vaft building, and the other at another end ?-----As if the object of the establishment were, that those. who wished to escape might carry on their. fchemes in concert, and at leifure. I fhould fuppose the inspection principle must long ago have occurred to the ingenious, and been rejected by the judicious, could I, after all my efforts, conceive a reason for the rejection. The circular form, notwithstanding its taking demonstrably less materials. than any other, may, for ought I know on its first construction, be more expensive than one of equal. dimensions in any of the ordinary forms. But this objection, which has no other fource than the loofe and random furmife of one who has had no experience in building, can never have held good in comparison with all the other prisons that we have, if in truth it holds good in comparison with any. Witnefs the maffy piles of Newgate,

of

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"of which the enormous, and upon the common plans by no means unneceffary expence, has been laid out in the purchafe of a degree of fecurity, not equal to that which the circular form would have given to the flighteft building that could be made to hold together. In fhort, as often as I indulge myfelf in the liberty of fancying that my own notions on this head may prove conformable to other people's, I think of the old flory of *Columbus* and his egg.

I have now fet this egg of ours on its end.— Whether it will ftand faft, and bear the fhocks of difcuffion, remains to be decided by experience. I think you will not find it ftale; but its frefhnefs is a circumftance, that may not give it an equal relifh to every palate.

What would you fay, if by the gradual adoption and diversified application of this fingle principle, you should fee a new scene of things spread itself over the face of civilized society?-----Morals reformed, health preferved, industry invigorated, instruction diffused, public burthens lightened, economy scated as it were upon a rock, the Gordian knot of the Poor-laws not cut but

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. but untied—all by a fimple idea in architedture?*

I am, &cc.

• This plan happened not to come in time for the particular purpole it was defigned for.

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PANOPTICON:

POSTSCRIPT;

PART I:

CONTAINING

FURTHER PARTICULARS AND ALTERATIONS

RELATIVE TO THE

PLAN OF CONSTRUCTION

ORIGINALLY PROPOSED;

Principally adapted to the Purpole of a

PANOPTICON

PENITENTIARY - HOUSE.

By JEREMY BENTHAM, of lincoln's-inn, esq.

LONDON:

PRINTED FOR T. PAYNE, AT THE MEWS-GATE.

1791.

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	pircafe leading to the Infpector's.
Lodge.	mente leading to the improve a
XI7 I - at it origin	at its origin
153 23 - is only	his only
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155 9 — diftant object 167 5 — at observed	be observed
107 5 - at objerved	be obierved
179 4 — Approach 185 16. — moral fortification	the Approach
185 16, moral fortification	mural fortification
186 2 — certain fuppolition 188 11 — three walls	a certain luppolition
188 ri three walls	two walls
199 15 respiration .	organs of refpiration
204 29 temperation	t-mperature
208 6 warming-chambe	r warming-chambers
209 23 fmall ftoves	fuch fmall ftoves
211 11 on a pe pendicula	r — in a perpendicular
213 14 one	air
219 5 - ariduct	aeriduct ·
220 14 w ich without	without
220 10 1 he fum.	- the forme
236 2 There, rain.	the foene trere, rain
In the Table, betwee :). 16c	and p. 167, line 2 from the bota
tom, for where read while.	

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MORALS reformed—health preferved—industry invigorated—instruction diffused—public burthens lightened—Economy feated as it were upon a rock—the Gordian knot of the Poor-Laws not cut but untied all by a simple idea in Architesture !-----Thus much I ventured to fay on laying down the pen—and thus much I shou'd perhaps have faid on taking it up, if at that early period I had seen the whole of the way before me.—A new mode of obtaining power, power

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power of mind over mind, in a quantity hitherto without example: and that, to a degree equally without example, fecured by whoever chooses to have it so, against abuse.—Such is the engine: such the work that may be done with it.—How far the expectations thus held out have been fulfilled, the Reader will decide.

The Letters which compose the body of this tract, were written at Crecheff in Ruffia, and from thence fent to England in the year 1787, much about the fame time with the DEFENCE of USURY. They were addreffed to a particular person, with a view to a particular establishment then in contemplation, (intelligence of which had found its way to me through the medium of an English newspaper) and without

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any immediate or very determinate view to general publication. The attention of the public in Ireland having been drawn to one of the fubjects to which they relate by the notice given not long ago by the Chancellor of the Exchequer, of a difpolition on the part of Government there, to make trial of the Penitentiary fystem, it is on that account that they now fee the light through the medium of the Irifh prefs.

They are printed as at first written, with no other alteration than the erasure of a few immaterial passages, and the addition of a Postscript, stating such new ideas as have been the fruit of a more detailed and critical examination, undertaken chiefly with an eye to the particular establishment last

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last mentioned, and affifted by professional information and advice.

In running over the defcriptive part of the Letters, the Reader will find it convenient to remember, that alterations, as flated in the Postfcript, have been made, though he need not at that period trouble himself with confidering what they are: fince in either shape the details will ferve equally well for the illustration of the gene ral principle, and for the proof of the advantages that may be derived from it.

In what concerns the Penitentiary fyftem, I may be obferved to have difcuffed, with rather more freedom than may perhaps be univerfally acceptable, a variety of meafures

fures either eftablished or proposed by gentlemen who have laboured in the fame line. A tafk this, which I would gladly have avoided: but compleat justice could not otherwise have been done to the plan here proposed, nor its title to preference placed in a fatisfactory point of view. Among the notions thus treated it is with pleafure rather than regret that I observe several which on a former occasion I had myself either fuggefted or fubfcribed to. I fay with pleafure: regarding the incident as a proof of my having no otherwife done by others than as I not only would be done by, but have actually done by myfelf: a confideration which will, I hope, make my apology to the refpectable gentlemen concerned, and affift their candour in recommending me to their forgiveness. If by the light of reciprocal

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ciprocal animadversion I should find myfelf enabled to rectify any errors of my own which may still have escaped me, the correction, instead of being shrunk from as a punishment, will be embraced as a reward.

In point of method and compression fomething might have been gained, had the whole, Letters and Postscript together, been new cast, and the supplemental matter worked up with the original. But time was wanting; and, if the invention be worth any thing, the account given of it will not be the less amusing or less instructive, for being exhibited in an historical and progreffive point of view.

The concluding Letter on Schools is a fort of *jeu d'esprit*, which would hardly have

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have prefented itfelf in fo light a form, at any other period than at the moment of conception, and under the flow of fpirits which the charms of novelty are apt enough to infpire. As fuch it may poffibly help to alleviate the tedium of a dry difcuffion, and on that fcore obtain the pardon, fhould it fail of receiving the approbation, of the graver clafs of readers.

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PANOPTICON.

POSTSCRIPT.

§ 1. PRINCIPAL PARTICULARS.

Principal Particulars either fettled or altered, fince the first hasty design, as described in Letter II. and imperfectly represented in Plate I. See Plate II.

1. A NNULAR WELL, or vacancy, all the way up, crowned by an uninterrupted opening *Sky-light*, inflead of Stories of Intermediate Annular Area to every two *Stories* of Cells.

2. Cells enlarged in depth, by throwing into them the fpace occupied in the first design by the *Protracted Partitions*, and by giving to the Upper Row in each pair the same depth as to the Under Row.

PART. I. B 3. Cells,

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2 § 1. Principal Particulars.

3. Cells, two laid into one.

4. Cells, number of Stories, fix instead of four.

5. Chapel, a regular one, now inferted in the center: partly inflead of the fmall Central Area. -partly at the expence of the feveral flories of In-fpection Lodge.

6 Inftead of three *fimilar* flories of *Infpettion-Lodge*, in the two upper flories Annular *Infpettion-Galleries*, backed by the Chapel-Galleries, in the loweft flory *annular Infpettion Gallery*, enclosing a *circular Infpettor's-Lodge*.

7. No *Cupola*, a part inferted in the first hasty sketch, rather by way of finish, than with a view to any special use.

8. The *Dead part*, viz. that part of the circuit in which there are no Cells, here occupying 5-24ths of the circuit inftead of 2-48ths, *i.e.* 1-24th: in height five ftories out of fix, inftead of two out of four, and covered by a *projecting Front.*—N. B. This Dead part, depending in point of magnitude and difposition fo much upon local and other individual *data*, could not well be fettled in all its parts, and accordingly is not represented in the draught.

9. Communications, now partly altered, partly fixed: particularly the only thorough paffage, termed

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§ 1. Principal Particulars.

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termed the Diametrical Paffage, now cut through a funk flory, and at its exit, joined by a Covered--Way, projected downwards from the lowermost In-. fpection-Gallery, and terminating in a central .Look-out for the infpection of the yards.

10. The form polygonal (a double duodecagon, vor polygon of 24 fides) inftead of circular.

11. Diameter-According to the prefent draught 120 feet (exclusive of the projecting Front') inflead of 100 feet, the diameter thought of in the original imperfect fketch with a view to local circumstances. *

12. Materials-Iron much employed, and used for the Cell-Galleries, for Staircafes, for Doors, and even for Pillars, chiefly hollow, inftead of brick, Atone, or wood .- Plaister, proposed for the Cellfloors.

13. Mode of fupplying the building with water : chiefly by an Annular Ciftern running round the top of the building : under the roof, immediately within the wall.

* Twenty foot, the addition male to the diameter, multiplied by three gives 60, the addition to the circumference: this divided by 24, the number of the cells, gives $2\frac{1}{2}$, the addition made to each cell at the outfide of the wall; i.e. at the extreme circumference, round which the polygon is circumferibed. . 14. Mode

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4 § 1. Principal Particulars.

14. Mode of *Warming* the Building: by ftreams of fresh air, heated in the new way by passing through the infide of vessel, to which fire is applied on the outside: instead of stagnant air, heated by its contiguity to hollow receptacles to which fire is applied on the infide, as in the ordinary German stoves and hot-house flues.

15. Outlets or External Area, fettled in fubordination to the infpection principle: the Covered-Way a femi-diameter of the area, terminating in a central Look-out, inflead of encompaffing the area, and being attached to the furrounding wall.— See Plate 3.

16. Approach and furrounding fences, now first fettled: and that too in strict fubordination to the fame principle. See again Plate 3.

N. B. The degree of anxiety, difplayed in the plan of exterior fortification there exhibited, had a more particular view to the state of things in Ireland than in England.

With relation to most of these points further elucidation will be neceffary: and with regard to feveral of them fomething in the way of justification will be expected: fuch will be the business of the enfuing pages.

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§ 2. GENERAL

§ 2. GENERAL VIEW

General View.

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§ 21

OF THE WHOLE EDIFICE.

In a General View of the whole Building, according to its prefent form, three very different though connected maffes may be diffinguifhed--

I. THE Projecting Front : a rectangular mafs, which, being defigned to go towards furnishing habitation for the Officers of the Establishment, has little to distinguish it from a common dwelling-house.

3. The *Cellular* part: including as well that part of the circuit which is actually difpofed of in cells, as the *Dead part*, which for the fake of ftability it is thought neceffary to lay out in the cellular form, although for want of light, as being covered by the front, it would not be conveniently applicable to the fame ufe.

3. The Infpettion-Tower: comprehending on one flory the lowermost Infpection-Gallery, with the B 3 inclosed,

inclosed Inspector's Lodge; in another, the middlemost Inspection-Gallery, in which is inclosed the lowermost Chapel-Gallery, and within that again the Area of the Chapel; *on a third, the uppermost Chapel-Gallery.

The Cellular mass, together with the Inspection-Tower inclosed within it, compose the characteristic part of the building: the projecting Front forms an accidental and ineffential appendage.

The whole of the characteristic part may be conceived as composed of two Towers, one within the other, with the Annular Well between them. +

A particularity that will require to be conftantly kept in mind is, that in the two polygono-cylindrical maffes, the circumferibing and the inferibed, not only the numbers of the flories do not agree, the latter having but half the number of the former, but that no one flory in the interior part coincides in point of level with any one flory of the ex-

• The Area of the Chapel cannot perhaps in frictness be faid to form part of the fame ftory with the lowermost Chapel-gallery. The floor being feveral foot below the level of that of the Gallery, may be looked upon as forming in that part a flory by itself. But this want of exa@ coincidence is no more than what occurs frequently in common houses.

+ By analogy, the Infpection-Tower might be termed the medullary part: the cellular part, the cortical.

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terior that furrounds it. This want of coincidence is not an accidental but a characteriftic and almost effential circumstance: fince it is by being placed about midway between the floor and the cieling of the lowermost of each pair of Cells that one floor in each flory of the Inspection Tower affords a perfect view of two flories in the Cellular part.

Principal Dimensions of the Polygonal

Part, comprehending the Cellular Part, with the included Infpection-Tower, being the whole of what is reprefented in Plate II.

Widths.

. ..

Semidiameter of the area of the Chapel,	
including the central aperture,	15
Width of a Chapel-Gallery,	12*
Width of an Infpection-Gallery +,	5
• In fome of the impressions of the Draught, by mift	ake g:

fect only † In fome of the imprefiions of the Draught, the lowermost of these Galleres has three fect of addition given to it, at the expence of the included Lodge: this addition it is new proposed. to take away, for the reasons given in sect. So

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Width

Width of the Annular Area in the fame	
ftory, and Well over it,	7*
of the Grated Annular Paffage,	
encompaffing the Annular Area on the	
funk ftory, being the fame width as that	
of the Cell-Galleries above,	4
Depth of a Cell within-fide, — 1	4†
Thicknefs of the Wall,	5

Total,

60

Add the other femidiameter,

2

Total diameter 120

• In fome of the imprefiions of the Draught, by miftake 11 feet.

+ In fome of the imprefions of the Draught, by miftake 13 feet only. Of the four additional feet thus given to the Intermediate Well, one was at the expence of the Cells, the three others at the expence of the Chapel-Galleries. It is now, however, propofed to allow it 1 foot, at the expence of those Galleries, making at the diameter 8 feet inftead of 7: exclusive of the 4, which, to the purpose of ventilation, may be confidered as little different from fo much void space, being so imperfectly occupied by the Cell-Galleries, constructed of open work like balconies.

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In the Floor of the Chapel.

Semidiameter of the Infpector's Lodge,	
thicknefs of the wall included, —	24
Width of the Infpection-Gallery,	8
	32
Add the other semidiameter,	32
Diameter of the building at the outer cir-	
cumference of the Infpector's Gallery	
in that flory,	64
Which is the fame as in the other ftories.	
Cellular Part alone.	
· Heights.	
From the floor of the funk flory to the	
floor of the loweft Cell level with the	
ground, including the thicknefs of the	
floor,	7-6
From the floor to the crown of the	-
arch in each Cell, — 8—0	
Thickness of the arch at the crown, 1-0	
Height of the first floor of Cells from	
the ground, including the thickness	

of the floor above, _____ 9--0 ----- of the fecond floor, 18--0

Height

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Brought over 7-Heighth of the third floor, 27-0 - of the fourth floor, 36-0 - of the fifth floor, 45-0 - of the fixth floor, 54--@ From the crown of the arch on the outfide to the lowest part of the flanting roof within the walls, 3-0 From thence to the level of that part of the roof where the Annular Sky-light begins, 5 From thence to the level at which the Sky-light terminates, ----5---6 Thickness of the roof in that part, I-Total depth of the Annular Well 76-0 76-0 Height of the building from the ground in the Cellular part, 69-6

Infpection Tower alone.

Heights.

From the intermediate area to a level with the floor of the lowermost flory of cells, 7-6 Thence to the floor of the Inspection Gallery 4-0

11---6

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Brought over II-6
From the floor of the Inspection Gallery,
to the roof of ditto, including the thick-
nefs of the floor and roof, 8-0
Void fpace between the lowermost and the
middlemost Inspection Galleries, — 10-3.
Height of the middlemost Inspection Gal-
lery, including the thicknefs of the floor
and roof, 7-6.
Void fpace between the middlemost Inspec-
tion Gallery and the uppermoft 10-3:
Height of the uppermost Inspection Gallery,
in front, including the thickness of the
floor and roof, $ 7-6$
Void fpace between the uppermoft Infpec-
tion Gallery and the uppermost part of
the Roof where the annular sky-light
terminates exclusive of the thickness of
the roof, 20-0
Thickness of the roof I-0:
Be-spectrupt
Height from the floor of the funk flory and
annular well as before, 760
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Infpector's

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§ 2. General View.

Infpector's Lodge alone.

Widths.

Total femidiameter of the Infpector's Lodge, †27 Add the other femidiameter, _____ 27

Total diameter,

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6

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54

• The diameter here given to these apertures is the fame as that given to the opening Sky-light over them : but they admit of extension, as the demand for light or any other confideration may require.

† In fome of the imprefiions of the Draught but 21: the difference, 6 foot, being owing, half of it to the three foot of addition given by miftake to the Annular Well at the expence of the fincluded Infpection Tower, the other half, to the addition (now proposed to be taken back) given within that Tower to the In-Spection Gallery in this flory, at the expence of the included Lodge.

§ 3. ANNULAR

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§ 3. Annular Well. 13

§ 3. ANNULAR WELL.

Annular Well, instead of Stories of Intermediate Annular Area.

HOW to give to the Infpectors accefs to the prifoners in their Cells? In the first defign, stories of Intermediate Area, ferving as passfages, were allotted to this purpose: in number, agreeing with the Stories of Infpection Lodge: in point of level, coinciding, as was necessfary, with the lowess flory of each pair of Cells. Apertures, cut here and there through the uppermoss of these stories of .passfages, were to give light and air to those below.

For what purpole these passages? For communication, and no other.—But the more I confidered the more plainly I perceived, that, for uninterrupted communication there would be no use. The first fuccedaneum that presented itself was a multitude of *flying Staircales* of open iron-work: at last I fatisfied myself, that two flights of Staircases, from top to bottom, for the prisoners, and short passages joining

14 § 3. Annular Weli.

joining them from the feveral ftories of the Infpection-part, would anfwer every purpose^{*}. Out went accordingly the Stories of Intermediate Area. Space took the place of matter, from the bottom of the building to the top: and thus a Well was formed all the way up, crowned by an uninterrupted Skylight as broad, and opening in as many places, as possible.

Airinefs, lightfomenefs, economy, and increafed fecurity, are the evident refults of this fimple alteration: above all things, airinefs, the want of which it might not by any other means, have been very eafy to remove. This vacuity does fervice in a thoufand fhapes: a ditch in fortification; it is a chimney and much more than a chimney in ventilation. In this point of view the diftance between the particular ceiling and the general fkylight is, fo much added to the heighth of ceiling in each Cell: fo that inflead of 6 Cells, each 8 feet high and no more, we have, in fact, 6 Cells, one of 66 foot, another of 57, a third of 48, a fourth of 39, a fifth of 30, and the loweft not lefs than 21 feet.

Communication, impeded in as far as it is dangerous, is, inftead of being retarded, accelerated, where it is of use. To the Inspector, in his Gallery, a fingle *Pole* answers, as we shall, see the

* See below communications.

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§ 3. Anuular Well: 15

purpose of many staircases: by this simple implement, without quitting his flation, he gives the priloners egrels from, and regrels into, their Cells. Machines, materials of work, and provisions, find a direct passage by help of a Grane, without the tedious circuity of a staircase: whence less width of staircase may fuffice. The posts, at which, were iron gratings of no avail, it would be poffible for a defperate prifoner to attack an Infpector in his cafile, are reduced to three narrow paffages on each fide: and those too crossed and guarded by doors of open-work, exposing the enemy, while they keep him at a distance*. Of all this more particularly in its place. A fhort hint of the feveral advantages could not well be omitted in speaking of the part to which they are due.

Add to thefe another, nor that an inconfierable one, in point of extent and facility of *Infpection*: for though there are but two Stories of Cells, of which an eye fituated in a Story of the Infpecting Tower can reach every part alike, yet in addition to this perfect view partial views are thus opened, from which the management may derive, as we shall fee, very material affistance.

+ This refers to the construction of the Dead part of the circuit, of which a little further on.

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16 .§ 3. Annular Well.

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What degree of support the Inspector of each Story of Inspection Gallery derives from the view thus acquired by his colleagues in the two other Stories, may be feen by the lines defcribed for that purpose in the Cells. They are drawn as if from an eye stationed in the back part of the feveral Inspection Galleries. The figures 1, 2, 3, mark the Stories of Infpection Gallery from which they are refpectively drawn. When two of these lines proceed from the fame Cell, the letter s denotes that one of them which was drawn from the height of the eye of a middle fized man when *fitting* and stooping to read or write: fay three feet fix inches: the letter u that drawn from the eye of the fame man standing upright : fay five feet five inches.

From this particularity in point of *conftruction*, the following observations may be deduced with a view to management.

1. There is no Cell of which fome part is not visible from every story in the Inspection-Tower : .and in the lowermost story, not only from the Inspection Gallery, but even from the included Inspector's Lodge.

2. The part thus visible is confiderable enough in point of room to receive, and expose perfectly to view

§ 3. Annular Well. 17

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view, a greater number of Prifoners than it can ever be propoled to lodge in the fame Cell.

3. No Prifoner can ever make any attempt upon the grating that forms the interior boundary of his Cell, without being visible to every one of the three stations in the Inspection-part.

4. During meal-times and at church-times, by flationing the Priloners close to the grating, two out of three Inspectors may be spared.

5. The Cell-Galleries are, every one of them, perfectly commanded by every flation in the In-Ipection-part.

6. An attempt can fcarcely if at all be made on a window in the third ftory of Cells, without being vifible, not only to its proper ftory, (viz. the 2d) of the Infpection-part, but likewife to the firft, nor upon a window in the 4th ftory of Cells, without being vifible, not only to its proper ftory (viz. the 2d) of the Infpection-part, but likewife to the 3d. Those of the 4th ftory at leaft, as well as the two above it, are fufficiently guarded by their height: upon the fupposition that the Cells afford no ropes, nor materials of which ropes could be made in the compass of a night, by perfons exposed conftantly to the eye of a patrolling watchman.

PART I. C 74

7. To

18 § 3. Annular Well.

7. To give to an Infpector at any time the fame command over the Cell of another Infpector as over his own, there needs but an order, drawing a line of limitation in the Cells in queftion, and confining the inhabitants within that line. So long as a prifoner keeps within it, he continues visible: and the instant he ceases to be so, his very invisibility is a mark to note him by.

4. PRO-

Protracted Partitions Omitted. 19

§ 4. PROTRACTED PARTITIONS: OMITTED.

Protracted Partitions omitted; or rather, taken into the Cells.

IN the original defign the Protracted Partitions. had two ufes: 1. To cut off all view of diftant Cells: 2. To cut off converse with the Cells contiguous on each fide. In fecuring this effect a large quantity of brick-work, and an annular space of 3 or 4 foot all round were expended.

Upon maturer confideration it appeared, that the fame effect might be equally fecured by flighter and cheaper means; and the fpace thus facrificed allotted to fome other more neceffary purpofe. Views of the oppofite femicircle may be intercepted by fheets of canvas filling up the intervals left by the ftories of Infpection-Gallery.* View and

* Making the circuit round the area of the Chopel, and omitting the Dead part, it will be found that three pieces, each in length about 70 feet, and in width, two about 5 feet each, and the third about \$\$ feet will fuffice.

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converse,

20 Protracted Partitions Omitted.

converfe, as between Cells contiguous or adjacent, by barriers of the flighteft nature interpofed within the Cells: fuch as a netting of wire for example, or even of pack-thread. The object is rather to mark the line than to oppofe a phyfical obftacle to the violation of it. If tranfgreffion be rendered practicable without difcovery, it is fufficient: fince it is not here and there an inftance that can produce any material mifchief, or to the delinquent any gratification capable of paying for the danger. By this flight and flexible barrier no room need be confumed. As well at top as at bottom it will give place to furniture: fuch as a fhelf, or the foot of a loom, a bedftead, or a table: and upon order given, it may be removed at any time.

When the Protracted Partitions were contrived, it was with a view to the affumed neceffity of abfolute folitude: that plan being, for reafons given below, now relinquifhed, neither this expedient, nor those now proposed to be fubfituted to it in the fame intention, are any longer of the fame importtance.

If the interception of view can be confidered as an object entitled to much attention, it can only be as between the different fexes. Of the provision made for that purpole, a full account will be found below. § 5. CELLS

Cells, Double inflead of Single.

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§ 5. CELLS,

DOUBLE INSTEAD OF SINGLE.

THE change is not a trifling one. It will not lightly be acceded to: the expediency of it will be expected to be fully and fatisfactorily made out. It fhall be fo: by reafon, by authority, and . by practice. In the Letters I affumed folitude as a fundamental principle. I then copied, and I copied from recollection. I had no books. I have fince read a little: I have thought more.

Not that the Panopticon fyftem has any intereft in the change. You may apply it indeed to mitigated feclufion, but fo you may with equal facility to abfolute folitude: Applied to the degree of mitigated feclufion here propofed, it clears the punifhment of its inconveniences, and gives it the advantages that have been looked for from folitude: ' applied to folitude, it enables you to forew up the punifhment to a degree of barbarous perfection, never yet given to it in any Englifh prifon, and fcarcely to be given to it by any other means.

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Double

Double Cells fuppose two prisoners at least in company; and admit of three, or even, in cafe of neceffity, four: and that with much lefs inconvenience, as we shall see, in point of room, than would refult from the putting of two into a Cell defigned only for one. As to any greater number, I lay it out of the queftion. The choice lies, it must be remembered, not betwixt folitude and crowded rooms, but betwixt absolute, perpetual, and universal solitude, on the one hand, and mitigated feclusion in very small afforted companies, on the other: companies in the formation of which every regard might be paid, and naturally would be paid, to every fort of confideration by which expediency can be influencedto age, temper, character, talents, and capabilities. Single Cells throughout, that is a number of Cells equal to that of the prifoners for whole reception they are defigned, Cells in which, under the Panopticon discipline, they are to work, and eat, and attend Divine fervice, as well as fleep, and out of which, unlefs for the purpole of being aired and exercifed, they are never to ftir, fuppole them doomed, or at least meant to be doomed, during the whole time of their imprisonment, to the flate of unmitigated folitude above mentioned: that time for the most part, a term of not less than seven years.

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Of perfect folitude in the penitenniary discipline I know but of one use : * the breaking the spirit as the phrase is, and subduing the contumacy, of the intractable. In this quality it may be a necessary instrument: none at any rate can be more unexceptionable. None can be more certain in its

* Mr. Haward knew no other. " The intention of this" viz (folitary confinement) " The intention of this (fays he in " Account of Lazarettos, p. 169) I mean by day as well as by " night, is either to reclaim the most atrocious and daring crimi-" nale; to punish the refractory for crimes committed in prilon; " or to make a ftrong imprefiion in a mort time, upon thoughtse lefs and irregular young perfons, as faulty apprentices and the " like. It should therefore be confidered by those who are ready " to commit for a long term petty offenders to abfolute folitude, " that fuch a flate is more than human nature can bear without ** the hazard of diffraction or despair : The beneficial effects of * fuch a punishment are speedy proceeding from the horror of 46 a vicious perfon left intirely to his own reflections. This may " wear off by long continuance, and a fullen infentibility may " fucceed."

And in another note, p. 192, " A thort term would probably de do more to effect a reformation than three or four months " confinement; as it is generally found that in the first two or " three days prifoners feem to have their minds most affected and " penitent."

Of these notes the former, it is true, is prefaced with a " with " that all prifoners had feparate rooms, for hours of thought-" fuinels and reflection" (fays he) " are necessary." But by feparate rooms all that he had in view was rooms different from C 4 the

effect.* In what inftance was it ever known to fail?

But in this quality the demand for it can be but temporary. What it does, if it does any thing, it does quickly: better, according to Mr Howard, in two or three days, than in more. [Account of Lazarettos, p. 192.] Why then at an immense expense fet up a perpetual establishment for the fake of fo transitory an use?

In the character of a permanent article of difcipline, continued throughout the whole of the confinement, if it were thought neceffary on any account, it must be for one or other of two purposes : 1. To prevent the spread of mischievous instruction,

the crowded rooms he had been fpeaking of in the text. In the latter it is true the fort of thoughfulnels and reflection he fpeaks of will with difficulty find place. The bufy fcenes that pais in crowds keep the mind in a flate of fermentation and confution that leaves little leifure for the admiffion of other thoughts. Far otherwife is it in those fmall f cieties, focieties composed of two or three only, which not having fallen under his observation do not appear on this occasion to have been in his view. Unapt to give rife to obstreperous mirth, they are peculiarly favourable, produce that fort of calm reflection which is the concomitant of e infidential intercourfe.

• Darknefs a d fafting, one or both, muft be added where it is thought neceffary the effect thould be speedily produced: as in the cafe of English Juries.

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or 2. To prevent confpiracies for the purpole of escape.

It is not neceffary for either purpole. I mean always in contradifinction to the mitigated plan of feclufion, which gives to each man but one or at most two companions. 1. Not for the former-In the cafes in which mischievous inclinations have been apprehended, and in which a plan of folitude, more or lefs fleadily adhered to, has been employed or thought of by way of remedy, the following circumftances have generally concurred. 1. The multitude of the prifoners collected together large and indeterminate: the composition of that multitude not capable of being regulated by any power of *felection*: the whole multitude left together, during the whole, or almost the whole of the four and twenty hours, without in settion or controul: and that in a narrow space, where, no one however defirous, could escape from the conversation of any other. 4. All of them at liberty, without any other check than that of poverty, to fupply themfelves to any excess with the means of intoxication. 5. A part more or lefs confiderable of that number about to be turned loofe. again upon the public in a short time, with the, leffons of milchief fresh in their ears, and ready at the

the first opportunity to apply the theory to practice. Under the arrangement to which, upon maturer confideration, I have given the preference in comparison with the first hasty conception of perpetual folitude, not one of the above circumstances has place: The number of the prifoners proposed to be put together is very fmall: in general but two, at the utmost not more than four : the composition of these little groupes dependent upon the ruling powers in the first instance, and capable of being varied every moment upon any the flighteft intimation which experience or even fulpicion can afford : every groupe, and every individual in it, exposed more or less to the fcrutiny of an inspecting eye during every moment of their continuance there : all means of intoxication for ever out of reach : the degree of feclusion determined upon, capable whatever it be of being, thanks to the allefficient power of the Panopticon principle maintained inviolate, while every plan of folitude yet attempted has been broken in upon, and its purpofe in great measure frustrated by occasional affociations, and the pernicious inftruction, should any such be communicared, not capable, were it to find a learner ever so ripe for it, of being applied to practice for many years to come.

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If from reafon we turn to example, an inflance where the plan of perpetual, total, and univerfal, folitude has been adopted, and fleadily adhered to, will not any where I believe be found. Either it has not been aimed at: or, if aimed at in principle, it has been relented from in practice.

In the Wymondham Penitentiary-Houfe, each prifoner, it is true, has a feparate Cell to fleep in : it is however only upon occafion * that he works there. If he does not work there, he muft work, and unqueftionably does work, in company: viz. in the work-room of twenty feet four inches by ten feet : + which was not defined for a few. As a prefervative against mischievous instruction, what then at those times, that is, throughout the day, becomes of folitude?

In the Gloucester Penitentiary-Houfe, as welk as in the other Gloucester prisons, folitude, under the two modifications there adopted, viz. with and without the concomitant of darkness, is with great propriety, and in conformity to the principle I am contending for, "directed merely as a punish-

* When neceffary. See Sir T. Beevor's Letters in Annual Regifter for 1786, Let. I.

† Ibid. Let. III.

" ment

" ment for refractory prifoners, and to enforce the " difcipline of the prifon."

In the Penitentiary-House indeed it is provided that, during the hours of reft, the prisoners shall be "kept entirely feparate :—in feparate Cells." So much for the night. How is it all day long?— "During the hours of labour," they are to be "kept feparate"—how ?—abfolutely? No: but only "as "far as the nature of the employment will admitt."

What follows immediately after I do not perfectly comprehend. "When the nature of the "employment may require *two* perfons to work "together," (it does not fay *two perfons or more*) "the tafk-mafters, or affiftant, (it is faid) fhall be "prefent to attend to the behaviour of fuch offen-"ders, who fhall not continue together, except "during fuch hours of labour." How is this? not more than two perfons ever to work together? nor even two without a tafk-mafter, or his affiftant, to attend them? Upon any idea of economy can this be looked upon as practicable? One man at 501. or 301. or 251. a year,* to do nothing but look on, for every two men, who are expected to work?

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§ The falaries allowed by thefe regulations to a tafk mafter, synkey, and affitant turnkey. Ib. Part I. p. 18.

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The Governor, is allowed, I obferve, for but one fubordinate of each of those descriptions. Are there then to be but three pair of prisoners on the whole establishment, to whom the indulgence of fo much as a fingle companion is to be allowed?— Are all the rest to remain in folitude for the want of an attendant to each pair?—This cannot be. By two then, we are to understand two or more: in short here, as at Wymondham, there are working-rooms in common, which none are to be without an Inspector, stationed in some part of the room.—But in this case too, what becomes of folitude?

If the benefits expected from folitude in the charac ter of a prefervative, were not given up by this relaxation, they would be by another. The following I obferve preferibed, as one of the four degrees of punifhment, "to be applied in the difcipline of *all* the prifons," the Penitentiary prifon therefore among the reft. The prifoner though "on working-days, con-"fined to his cell, except during the times of air-"ing,"* and the"" removed *fingly* to the chapel," is,

As to airing, a plan for that purpose will be found below, which does not require the flightest infringement upon whatever plan of fectusion may be fixed upon as most eligible.

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providel

" provided his, or her behaviour, be orderly or "decent," to be " allowed on Sundays, to air in the courts, in the fociety of his or her clafs." "Under this indulgence too, what becomes of the *antifeptic* regimen? May not the fame perfon who opens a fchool of corruption as foon as the keeper's Back is turned, be orderly and decent during his prefence? May not there be *eye-pri/oners*, as well as eye-fervants? Cannot the arts of houfebreaking and pilfering be taught on Sundays, as well as on "week-days: cannot they be taught quietly and in a low voice?

So much as to evil inftruction. Now as to fafe cuftody. Upon the Panopticon plan at leaft, abfolute folitude is equally unneceffary to this purpofe. Towards effecting an efcape, what can two or three do more than one, confined as they are by iron grates while they are within the prifon, and by walls when they are without? and in either cafe, never out of the eye of an Infpector, who is armed and out of reach of attack, and within reach of whatever affiftance he can defire? And this too, as we fhall fee, but a part of the fecurities with which the fyftem is armed: for every thing cannot be faid at once, nor repeated at each fentence.

* Ibid. Part II. p. 10.

Upon

Upon the common plans, abfolute folitude while the prifoners were out of fight might, for aught I can fay, be a neceffary precaution: at least it cannot be faid to be an ufelefs one. In the course of fixteen hours a good deal might be done by two or three perfons, fteeled against danger, reckoning life as nothing, and fecure of not being obferved.

If perpetual and unremitted folitude is not neceffary either to prevent the spread of mischievous instruction or to prevent escapes, to what other purpose can it be either necessary, or of use?—To reformation?—But that you have already, either without any solitude, or by the help of a short course of it. What further proof would you wish for, what further proof can human eyes have, of such a change, beyond quietness, filence and obedience?

To the purpole of example? The effect in the way of example, the effect of the spectacle, receives little addition from the protracted duration of the term.

Are you afraid the fituation should not be made uncomfortable enough to render it ineligible? There are ways enough in the world of making men miserable without this expensive one : nor if their fituation in fuch a place were made the best of

of, is there any great danger of their finding themfelves too much at their eafe. If you muft torment them, do it in a way in which fomebody may be a gainer by it. Sooner than rob them of all fociety, I would pinch them at their meals.

But folitude when it ceafes to be neceffary becomes worfe than ufelefs. Mr. Howard has thewn how. It is productive of gloomy defpondency, or fulleninfenfibility. What better can be the refult, when a vacant mind, is left for months, or years, to prey upon itfelf?

This is not all. Making this lavish use of solitude is expending an afful instrument of discipline in waste. Not that of *puni/hments*, or even a proper variety of punishments, there can ever be a dearth: I mean of what is usually in view under that name—suffering employed in a quantity predetermined, after an offence long past. But of instruments of *compulsion*, such as will bear forutiny, there is no such great abundance.

Starving thus employed, is open to fufpicion, and may not a ways be practicable, without prejudice to health. Acute applications, fuch as whipping or beating, are open to abufe and still more to sufpicion of abufe. Applied in this way they would be execrated under the name of torture. Solitude

Cells, Double instead of Single. § 5. 33

Solitude thus applied, especially, if accompanied with darkness and low diet, is torture in effect, without being obnoxious to the name.

Compared to that mitigated degree of feclufion which admits of allowing two or three to a Cell, it is unthrifty in a more literal fenfe. Pecuniary economy must be facrificed to it in a thousand shapes. 1. It enhances the expence of building. 2. It confumes room: 3. It cramps the choice of trades: 4. It cramps industry in any trade.

1. It enhances the expence of building. Admit of Double Calls instead of Single, and observe the faving. Half the number of the Partition-Walls: a confiderable part of the expence of warming: half that of lighting: half the apparatus, whatever it be, dedicated to cleanlinefs: and the expence of water closets, upon the most perfect plan, need the lefs be grudged.

2. It confumes room. 1. Admit of Double Cells, you gain to the purpole of flowage and manufacture, the fpace occupied by the Partition-walls you have thrown out. 2. It precludes the faving that may be made in Double Cells, by putting together two forts of workmen one of whom required more room than the average allowance, the other lefs : a weaver for example, and a shoemaker. 3. It D

PART I,

3. It cramps the choice of employments. 1. It excludes all fuch as require more room, than you would think fit to allow to your Single Cell. 2. It excludes all fuch as require two or more to work in the fame apartment. *

4. It cramps induftry in any employment. I. It precludes an experienced workman from having boys given to him for apprentices. 2. Nor probably would the fame quantity of work be done by two perfons in a flate of folitude, as would be done by the fame two perfons in a flate of fociety, at leaft under the influence of the infpection principle. Who does not know the influence that the flate of the fpirits has upon the quantity of the work ?†

• I do not pretend to fay that even in Single Cells employments would be to feek : or that there is any reafon to firain a point for the fake of admitting employments that require an extraordinary measure of room, as if the profitableness of employments were in uniform proportion to the quantity of room they required. I would not therefore be at a great expence in building for the vague chance of giving admittance to trades, which by their difference in point of profitableness might do more than pay for the difference in point of expence in building. What I faid in the Letters I fay fill. All I mean here is, that if a latitude in that article can be obtained without any additional expence, the advantage ought not to be forgotten.

+ True it is, that two boys or two idle men, if put together without motives for working, would be apt enough to play or lounge

Sequeftered fociety is favourable to friendship,' the fifter of the virtues. Should the comrades' agree, a firm and innocent attachment will be the natural fruit of so intimate a society, and so long an union.

¹ Each Cell is an ifland: the inhabitants, fhipwrecked mariners caft afhore upon it by the adverfe blafts of fortune: partners in affliction, indebted to each other for whatever fhare they are permitted to enjoy of fociety, the greatest of all comforts.

Should difagreement intervene, how eafy will feparation be, and what fhould hinder it ? fhould the

lounge the whole time, and not work at all. True it is alfo₃, that after having had experience for a certain time of abfolute folitude debarred from all means of employment, the moft arrant idler that ever lived would be apt to fly to almoff any employment as a relief. But the quefion here is, not between a reclufe without the means either of work or play, and two idlers poffeffing the means of play without the motives to work, but between one perfon in folitude, and two others in fociety, neither the one nor the two having the means of play, but with regard to work, all having as well the motives as the means.

. What more proverbial than the brinknefs of the Cobler's work, and the cheerfulnefs of his note? But where would be his cheerfulnefs without the amufive fpectacle of the fort of fociety afforded him by the flux and reflux of the paffing throng?

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mischief

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mifchief be the refult of ill nature or turbulence of one alone, the remedy is at hand—confign him to folitude till tamed. Take from him the bleffing, till he has learnt to know its value : punish him in the faculty he has abused.

A fund of fociety will thus be laid up for them against the happy period which is to reftore them to the world. A difficulty will thus be obviated which has been remarked as one of the most unfortunate concomitants of this mode of punishment, and as having but too powerful a tendency to replunge them into the fame abandoned courses of life which brought them to it before. Quitting the fchool of adversity, they will be to each other as old fchool-fellows, who had been through the fchool together, always in the fame clafs.

Let us keep clear of mistakes on all fides. There are four distinctions we should be careful to observe in regard to solitude. One is, between the utility of it in the character of a temporary instrument applicable to a temporary purpose, and the necessity of it, in the character of a permanent ingredient in the system of discipline. Another is, between the peculiar effects of solitude and the advantages which are equally obtainable by means of sequestered society, in small associated

com-

companies. A third is, between the effects of fuch affociations, under the common plan and under the all prefervative influence of the infpection principle.

A fourth is, between the duration the folitary difcipline is capable of requiring in a Penitentiary Houfe, and that which it may poffibly be of ufe to give to it in a Houfe of Correction. It may be longer in the latter.* Why? Becaufe in a Penitentiary Houfe all it can be wanted for is to produce immediate fubmiffion : for, as to reformation and change of character, years are remaining for that talk : the offender is not returned from thence into unlimited fociety. In a Houfe of Correction, the term being fo much fhorter, the remedy muft be fo much the more powerful. If the reformation of the offender is not compleated in his folitary Cell, there is no other place for it to be continued

Though even there not a long one. Hear Mr. Howard, in a note before referred to. "In all manufacturing towns" (fays he, p. 192) "it would be proper to have folitary Cells for the confinement of faulty apprentices and fervants for a few days, where they should be constrained to work, and have no visitors, unlefs Clergymen: for a short term would probably do more to effect a reformation, than three or four months confinement; as it is generally found that in the first two or three days pri-

" foners feem to have their minds most affected and penitent."

in: for from thence he is returned to fociety at large.*

One thing is good for phyfic, another thing for food. Would you keep a man upon bark or antimony ?

Rejecting then the idea of abfolute folitude, I lay two of the Cells proposed in the original draught into one. Two accordingly is the number I confider as forming the *ordinary complement* of the Double Cell thus formed: *three*, if three are any where to be admitted, I ftile a *fuper-complement*: *four*, a *double complement*.

The degree of extensibility thus given to the eftablishment seems a very considerable advantage: the number is not rigorously confined to the meafure originally allotted to it : provision is made for the fluctuation and uncertainty naturally incident to the number of inhabitants in such a house. Tho'two should be deemed the properest complement for a

* I fpeak with a view to the common plans. In a Panopticon Houfe of Correction, beginning, where neceffary, with a very fhort courfe of folitude, I would allot the reft of the terms to a flate of mitigated feclufion. But in many cafes where a long term is preficibed without diffinction or thought about the difcipline that will be purfued, the fhort courfe of folitude would be (ufficient of itfelf.

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general

general one, even fo confiderable an one as four, efpecially if not univerfal does not feem to threaten any formidable inconvenience. As to fafe cuftody and good order, four is not fuch a number as can well be deemed unmanageable : if it were, how would fo many more be managed all day long in the work-fhops, and that without the benefit of invifible infpection, as on the common plans? As to room, four would have much more of it in one of thefe Double Cells, than two would have in a Single Cell formed by the division of fuch a Double Cell into equal parts. A partition in certain cafes excludes from use a much greater space than that which it covers.*

Under this arrangement, folitude in its character of a temporary inftrument is by no means laid afide. On the contrary it is made applicable, to a greater, indeed to an almost unlimited extent, and what is more, without any additional expence. Two I call, as before, the *ordinary complement* for these Double Cells. Conceive the whole number of the Cells provided with their ordinary comple-

• Thus in a room of twelve foot wide you might join lengthways three tables of four foot in length each : divide the room into two equal rooms by a partition, you can place but two such tables in the fame direction, though the partition be but a lath.

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ment: to confign a delinquent to folitude, there needs no more than to deprive him of his companion, and by transferring the companion to another Cell, give that one other Cell a *[uper-com*plement. In this way by only giving to half the number of Cells a fuper-complement, half the number of prifoners might be configned to folitude at once: a multitude of folitaries beyond comparifon greater than what is provided for in any prifon in which folitude is not meant to be the constant state of the whole. Even supposing the Cells univerfally provided with a fuper-complement, give two thirds of them a double-complement, and you may still confign to folitude one third of their inhabitants at the fame time : and fo, in cafe of an univerfal double complement one quarter, upon no worfe terms than the putting five perfonsinto a fpace, which in the ordinary way of providing for the inferior claffes, is often made to hold a greater number without any very decided inconvenience.

In estimating the effects of putting two or three or four prifoners together (all under inspection, it must be remembered, all the while) the advantage of grouping them at the discretion of the Inspector must not be overlooked. Very inattentive indeed must he have been to this capital part of his business, if in a very short time the character of every

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individual among them be not known to him as much as is material to his purpole. He will of course fort them in such a manner as that they may be checks upon one another, not affistants, with regard to any forbidden enterprise.

Let us not be imposed upon by founds : Let not the frightful name of *felon* bereave us of the faculty of difcrimination. Even antecedently to the time within which the reformatory powers of the inflitution can be expected to have had their effect, there will be perhaps no very confiderable part of the whole number, whofe characters need infpire much more apprehension than would be justified by an equal number of men taken at large. It is a too common though natural error to affix to this odious name, whatfoever difference of character may accompany it, one indiffinguishing idea of profligacy and violence. But the number of the perfons guilty of crimes of violence, fuch as robbery, the only forts of crimes which in fuch an establifhment can be productive of any ferious mifchief, bear comparatively speaking but a small proportion to the whole. Those whose offences confift in acts of timid iniquity, fuch as thieves and sharpers, even though trained to the practice as to a profession, are formidable, not to the peace of the eftablifh-

eftablishment, but only in the capacity of instructors to the reft: while the qualities of perhaps the major part, whofe criminality is confined to the having yielded for once to the momentary impulse of fome transient temptation, are fuch as afford little. or no danger in any shape, more than would be afforded by any equal number of perfons in the fame: flate of poverty and coercion taken at large. They are like those on whom the Tower of Siloam fell, diftinguished from many of their neighbours more by fuffering than by guilt. Drunkennefs, it is to be remembered, the most inexhaustible and most contagious fource of all corruptions, is here altogetherout of the question. Intoxication cannot be taught, where there is nothing (for this I take for granted) wherewith a man can be intoxicated.*

• In fhewing that abfolute folitude is not an effential part, nor indeed any part of the Penitentiary System, I had forgot the original Penitentiary Act, 19 Geo. III. c. 74: under which act, folitude extends neither to "labour," nor " devotion," nor f meals," nor airings." See § 33.

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§. 6. DEAD

§ 6. Dead Part.

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§ 6. DEAD PART.

I will be neceliary on a value, which we have a state of the building referve fome part of the circuit of the building difficient T will be necessary on a variety of accounts to for other purposes than that of being disposed of into Cells. A Chapel, a part of the eftablishment for which a place muft be found fomewhere, occupies upon the prefent plan a confiderable portion of the Infpection-Tower. Even the whole of that circle, were there to be no Chapel, would not fuffice for the lodgment of all the perfons for whom lodgment would be neceffary. There must be a Chaplain, a Surgeon, and a Matron : efpecially if befides male there should be female prisoners, which in a building of this kind there may be, as we shall fee, without inconvenience.* Should the establishment not be of fufficient magnitude to call upon the Chaplain and the Surgeon for the whole of their time, and to give a compleat lodgment to those officers and their families, fome fort of feparate

* See the Section on the Separation of the Sexes.

apartment

44 .§ 6. Dead Part,

apartment they must still have, the Surgeon at least, to occupy while they are there.

To fuch an eftablishment not only a Governor, but a Sub-Governor will probably be requisite : and for the fake of giving an infpecting eye to the approach without, as well as for other purposes, it will be neceffary, as we shall fee, that the former, and convenient, that the latter at least, should have an apartment fronting and looking out that way. And for the lodgment of the Governor at least, there will be required a space sufficient for a stile of living equal or approaching to that of a gentleman.*

. * To a perfon of this defcription, or not much below it, muft the provision made in point of room be fuited, upon whatever plan the Governor is to find an inducement to take upon him the office. Upon the plan of payment by falary, a man who in point of education and responsibility had not some pretentions to be confidered as upon that footing, would hardly be intrusted with a concern of fuch magnitude and importance. Upon the contract plan recommended in the Letters (See Letter 9th) a man who were not of fufficient responsibility and account to require provision to be made for him in the way of lodgment upon a fimilar footing, would hardly be accepted of. In the former cafe, the Governor would require a Master - manufacturer, or Task-master under him, to ease him of the most irksome and laborious part of the details, and occafionally of the whole, in cafe of fickness or neceffary absence. And in the latter cafe, were a Master-manufacturer to be the contractor, while his own attention was principally •

§ 6. Dead Part

There must therefore be fome part of the building, over and above the central, provided for the lodgment of these several forts of Curators, and confequently not, like the reft, disposed of in the form of Cells. The part of the circuit thus sacrificed and blocked up, as we shall see, by a projecting-front, is what I call the *Dead-part*.*

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To take from the Cells the whole of the fpace thus meant to be employed would abforb a greater part of the circuit than would be neceffary, and thus make an uneconomical diminution in the number of prifoners capable of being provided for. To obviate this inconvenience, in a building of 120 foot diameter, which were the whole of it difpofed into Cells would, by having 24 Double Cells in a ftory, and fix fuch ftories, contain 288 prifoners, I take, for fuppofition fake, for the Dead part, a fpace no more than equal to five fuch Cells.

cipally employed in turning the eftablifhment to account in the way of profit, he would find it neceffary to have under him a man of truft, in the character of Keeper, for the purpole of fuperintending the government of the prifon; and paying a more particular attention than the occupations of the principal could admit of his paying to the great objects of fafe-cuftody and good order. A wail, in contradifinction to erections with windows in

them, is commonly called a Dead Wall.

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§ 6. Dead Part.

- To obtain what further room may be requilite, and that without any further prejudice to the mamber of the Cells, I add a quadrangular front, projecting, fay for inftance twenty foot, reckoning from a tangent to the circle. This, with the help of the fpace included by a perpendicular drawn from fuch tangent to the laft of the Cells thus facrificed on each fide, would form a confiderable projection, extending in front about 73 foot.* By this means the officers in question might all of them possess fome fort of communication with the exterior approach, while the back part of the fpace has appropriated' would give them communication with and infpection into the part allotted to the prifoners, and to fuch of them as required to be flationed in the heart of the building, access to their common lodgment in that place.

The front thus formed would not hovever re-1 quire to be carried up to the utmost height of a building fo lofty as the circular part, viz. upon

• This part could not be delineated in the Draught Plate II. nor confiquently the Dead Part diffinguished from the reft. The disposition of these two parts must be governed in a confiderable degree by local circumstances, and in its details is not essential to the composition of the building. The outline of it is however represented in Plate III.

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§ 6. Dead Part.

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the prefent plan about 68 foot, roof included. Prifoners, as their occasion to afcend and defcend recurs, as we shall see, at very few and stated periods, may be lodged at almost any height without sensible inconvenience*: but this is not equally the case

* This would be, exclusive of the roof, 54 foot, being the aggregate height of the fix Cells; the floor of the loweft ftory of Cells being fuppofed level with the ground : that is, even with the ground floor of the Projecting Front upon the fame level. But it will probably be found convenient, as we thall fee, to raife the ground floor of the Front to a level with that of the lowermost flory of the Infpection-part, the floor of which must be $4\frac{1}{2}$ above that of the lowermost story of Cells; and to put under the Cells a funk floor, running all round, which may be about 71 foot lower than that of the Cells, and confequently about 12 lower than that of the lowermost story of the Inspection-part. In that case, if the ground is at the fame height before the Front as all round the Cells, there must be steps from it to the height of 41 foot (fay 9 fteps 6 inches each) to reach the ground floor : which will reduce to 491 foot the height from the ground floor of the cieling of the highest story of Cells; and to 431 that from the same groundfloor to the windows of the fame ftory of Cells : at which level the projection must terminate, in order to afford by its, toof a terrace for the Infirmary, in manner here propofed.

This want of coincidence between the floors of the internal part and those of the external, in other words, between the Inspection-part and the Cellular, (a circumstance necessary to give each floor of the former the command of two floors of the latter) introduces a degree of intricacy which affects every conception that can be formed and every account that can be given of almost any part of this unexampled flructure.

45 6. Dead Part.

with members of families in a flate of liberty. The cielings, though higher than those of the Cells, (which are 8 foot in the clear) would not require to be so lofty as the diffance from floor to floor in the Inspection-part: a number of flories, thoughs not so great as fix, yet greater than three, might therefore be thus allotted. To dispose of the furplus to advantage, I omit a height at top equal to and level with that of the uppermost flory of Cells. The corresponding part of the circuit of Cells, comprehending a space equal to that of five of these Double Cells, is thus reflored to the light, and free to be converted into Cells.* This part, or any of the Cells composing it, may answer upon occasion the purpose of an Infirmary.

It poffeffes in this view a peculiar advantage. The front may have a flat roof, which being raifed to the level of the floor or the bottom of the windows of this Infirmary part, and covered with lead or copper, will form a terras, on which convalefcents, though incapable of the fatigue of defcending and reafcending, may take the air. A fpace of 73 foot in front, and in width where narroweft (viz. at its junction with the circle) 20 foot, and where

 It may poffibly however be found eligible to facrifice one of these Colls, vis. the center one, to let in light by a fky-light for the staircase for Chapel visitors. See § Communications-Staircaset. N

§ 6. Dead Part.

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wideft (viz. at the furthest part from the circle) near 32 foot, would afford very convenient room for this purpose, and the separation between the males and females might here likewise, if thought neceffary, be kept up, by a partition wall cutting the terrace in the middle.

A more convenient Infirmary could fcarce be wished for. The only expense attending it is the difference between that of a flat and that of an ordinary roof for the quadrangular projection over which it looks: and even this difference is not an effential one. On the ordinary plans, while there are no fick, the Infirmary is vacant and useles. Such need not be the cafe here. Guarded and watched in the fame manner, the Infirmary Cells are as fit for the reception of prifoners in health as. any other Cells. When the establishment is in this state of repletion, suppose an Infirmary Cell wanted for a fick perfon, it is but difmiffing its former inhabitant or inhabitants to an ordinary Cell or Cells upon the principle already mentioned.

The part thus denominated the Dead part would be very far from loft. It would afford room for many neceffary articles in the composition of the building. Out of it ought to be taken: PART I, E I. Staircafes

50 § 6. Dead Part.

1. Staircafes for the Prifoners and Infpectors: for which fee the head of Communications.

2. Entrance and Staircafes for the Chapel Vifitors : for which also fee the head of Communica-

tions.

3. Paffage and Staircafe to the Infpector's Lodge: for which fee the fame title.

4. Veftry for the Chaplain.

5. Organ and Organ loft.

6. Clock-houfe and Belfry.

§ 7. CHAPEL.

Chapel Introduced.*

THE neceffity of a Chapel to a Penitentiary House is a point rather to be affumed than argued. Under an established Church of any perfuasion, a fystem of penitence without the means of regular devotion would be a downright folecism. If religious instruction and exercise be not neceffary to the worst and generally the most ignorant of finners, to whom else can they be other than superfluous?

This inftruction, where then fhall they be placed to receive it? No where better than where they are. There they are in a ftate of continued fafe-cuftody : and there they are without any additional expence. It remains only to place the Chaplain : and where

• The Chapel, not being a characteriftic part of the defign, will be fufficiently underflood from the Draught, without any particular explanation. For the whole detail of this part, I am indebted to my profeffional advifer, Mr. Revely, of Great Titchfield fireet, Marybone, whole beautiful and correct drawings of Views in the Levant have been fo much admired by the dilettante in Grecian and Egyptian antiquities.

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§ 7. Chapel.

the Chaplain is, there is the Chaple. A fpeaker cannot be diffinctly heard more than a very few feet behind the fpot he fpeaks from.* The congregation being placed in a circle, the fituation therefore of the Chaplain fhould be, not in the center of that circle, but as near as may be to that part which is behind him, and confequently at the greatest diftance from that part of it to which he turns him face.

But between the center of the Infpection Tower all round and the intermediate Well, there must be at any rate, whatever use it may be put to, a very confiderable space. What then shall be done with it? It cannot be employed as a warehouse confistently with the fanchity of its defination: nor even independently of that confideration: fince if thus filled up it would intercept both fight and voice. Even if Divine service were out of the question, it is only towards the center that this part could be employed for showage, without obstructing inspection as much as in the other case it would devotion: nor can iteven in that part be fo employed, without narrowing in proportion the In-

• I found this by experiments made on purpose in churchess See also Saunders on Theatres.

fpector's

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.fpector's range; and protruding his walk to a longer and longer circuit. What then, shall we do with this vacuity ?-Fill it with company, if company can be induced to come. Why not, as well as to the Afylum, the Magdalen and the Lock Hofpital, in London? The scene would be more picturesque: the occasion not lefs interesting and affecting. The prospect of contributions that might be collected here as there, will bind the manager to the obfervance of every rule that can contribute to keep the establishment in a state of exemplary neatness and cleanlinefs, while the profit of them will pay him for the expence and trouble. Building, furniture apparel, perfons, every thing muft be kept as nice as a Dutch Houfe. The smallest degree of ill fcent would be fatal to this part of his enterprise. To give it fuccefs, prejudices indeed would be to be furmounted: but by experience, continued and uninterrupted experience, even prejudice may be overcome.

The affluence of vifitors, while it fecured cleanlinefs, and its concomitants healthinefs and good order, would keep up a fyftem of gratuitous infpection, capable of itfelf of awing the keeper into good conduct, even if he were not paid for it: and the opposite impulses of hope and fear would E_3 thus

thus contribute to enfure perfection to the management, and keep the conduct of the manager wound up to the higheft pitch of duty. Add to this the benefit of the example, and of the comments that would be made on it by learned and religious lips : Thefe feeds of virtue inftead of being buried in obfcurity, as in other improved prifons, would thus be diffeminated far and wide.

Whatever profit, if any, the contractor could make out of this part of the plan, why grudge it him? Why to his eftablifhment more than to any of those just mentioned? Not a penny of it but would be a bounty upon good management and a security against abuse.

If the furniture and decoration of the Chapef would require fome expence, though very little decoration would be requifite, a faving on the other hand refults from the degree of opennefs which fuch a defination fuggefted and rendered neceffary. On the original plan, the whole circuit of the central part, then appropriated folely to infpection, was to have been filled with glafs: on the prefent plan, which lays this part open in different places to the amount of at leaft half its height, that expensive material is proportionably faved.

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On the prefent plan, it will be obferved, that three ftories of Cells only, viz. the fecond, third, and fifth from the top, enjoy an uninterrupted view of the Minister.* That the inhabitants of the other stories of Cells may have participation of the fame benefit, it will be neceffary they should be introduced, for the occasion, into or in front of fuch of the Cells as are in a fituation to enjoy it. This might be effected, and that with the greatest care, were the whole establishment to receive even a double complement.

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The two parties composed of the fixed inhabitants of each Cell, on the one hand, and the ftrangers imported from a distant Cell on the other, might be ftationed either in one continued row in the front of the Cell-galleries, or the one party in that line and the other immediately within the Cell-grating. In neither case need the law of seclusion be suffered to be infringed by converse: both parties are alike awed to filence by an invisible eye, invisible not only to the prisoners in front, but to the company behind: not only the person of

• In fome imprefions of the Draught the minister's station, and confequently the views and want of views that refult from it are not reprefented: but they will readily be conceived.

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§ 7. Chapel:

each Infpector, but his very flation being perfectly concealed from every flation in the Chapel.*

• All this may be very well, faid an intelligent friend, in the way of example :-----but how flands it upon the footing of reforstation? Might it not have ultimately a corruptive effect upon the perfons thus exhibited, flaming them indeed and diffrefing them at fift, but by degrees hardening them, and at length rendering them infenfible ? Would it not, in flort, to this purpole be a fort of perpetual pillory ?

" To this I anfwer-

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1. That of the two, example and reformation, example is, the greateft object: and that in the proportion of the number of the yet innocent to that of the convicted guilty.

2. That the offences for which perfons are fubjected to this pusifimient are deemed of a deeper die, and as fuch to require a punifiment more fevere than that even of those who are configned to the pillory.

3. That at their trials there is not one of them but must have been exhibited in a manner equally public, and in circumstances reflecting a much greater measure of humiliation and shames with this difference too, that on that occasion each perfon is exhibited fingly, and the eyes of the whole audience are fixed upon him alone :--- that he is to fpeak as well as to hear, and flands forth in effect the fole hero of the melancholy drama : whereas, on an exhibition like that here proposed, the attention of the spectators, being divided among fo many, scarcely attaches individually upon any one. Befides' that upon his trial a man is held forth to view with the marks of guilt fresh upon his head : whereas at the remote period in question he does not appear till a progrefs more or lefs confiderable may be prefumed to have been ંગ્ય ð. made

§ 7. Chapel.

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mude in the career of penitence, and the idea of guilt has been supered by explation.

Should these answers be thought to have disproved the mischief, nothing can be simpler than the remedy. A mask affords it atonce. Guilt will thus be pilloried in the abstract, without the exposure of the guilty. With regard to the suffract, without the falutary impression instead of being weakened will be heightened, by this imagery. The scene of direction will be heightened, by this imagery. The scene of direction will be decorated bywhy mince the word i-by a masquerade: a masquerade indeed, but of what kind? not a gay and dangerous, but a serious, affecting, and instructive one. A Spanish puro-da-je has still more in it of the theatre:—and what is the objection there i-That the spectrace is light or ludicrous?—No: but rather that it is too ferious and too horrible.

This it is to be noted is the only occasion on which their eyes. will have to encounter the public eye. At all other times, be their visitors ever so numerous, there will be no conscious for so being seen, consequently no ground for the infensibility which might be apprehended from the habit of such conscious for so.

Where there is patience to difcriminate, the worft inftitutions may afford a hint that may be of ufe. I would not turn my back. upon reafon and utility, though I found them in the Star-Chamber or the Inquifition. The authors of the latter inftitution, in particular, weatever enormities and abfurdities may be laid to their charge, muft at leaft be allowed to have had fome knowledge of *fage-effect*. Unjuft as was their penal fyftem in its application and barbarous in its degree, the fkill they difp ayed in making the moft of it in point of imprefion, their folemn proceffions, their emblematic dreffes, their terrific fcenery, deferve rather to be admired and imitated than condemned.

Nibil ex fcenâ, fays Lord Bacon, fpeaking of procedure in the eivil

58 § 7. Chapel:

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eivil branch of the law: Multum ex fcenå, I will venture to fay, fpeaking of the penal. The difagreement is but verbal: Scene in the language of the noble philosopher, means lying : in mine, fcena is but fcenery. To fay Multum ex fcenå, is to fay lose no occasion of speaking to the eye. In a well composed Committee of Penal Law, I know not a more effential perforage than the Manager of a Theatre.

§. 8. INSPEC-

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§ 8. INSPECTION-GALLERIES

AND

LODGE.

IN the three flories of the Infpection-Tower, Annular Infpection-Galleries, low and narrow, furrounding in the lowermost flory a circular Infpection-Lodge; inflead of three flories of Infpection-Lodge, all circular, and in height filling up the whole fpace all the way up.*

• It is to the ingenuity of Mr. Revely that I am indebted for this very capital improvement, which I did not fubmitt to without reluctance. It occurred to him in contriving the conftruction of the Chapel, in the room of fome crude ideas of my own, a detailed defeription of which would take up more room than it would be worth. The floors of the prefent Infpector's-Galleries were to have been continued inwards as far as what confitutes now the area of the Chapel. The Governor and his fubordinates were to have lived in them on week days, and on Sundays thefe floors were to have anfwered the purpole of galleries to the Chap-1. All the way up from floor to floor there were to have been windows, which were to have been got rid of fome how or other during the time of Divine fervice.

Two

Two defiderata had been aimed at in the contrivance of the Infpector's flations: 1. The unbounded faculty of feeing without being feen, and that as well while moving to and fro as while fitting or flinding flill: **a**. The capacity of receiving in the fame place vifitors who fhould be in the fame predicament.

The fecond of these objects is not to be dispensed with. If the Governor or Sub-Governor cannot for the purposes of his business, receive company while he remains in this station, he must as often as he receives them quit not only the central part, but the whole circle altogether: leaving his place in the Inspection part to be supplied by somebody on purpose. Hence on the one hand a relaxation of the inspective force: on the other, an increase in the expence of management.

Suppole it possible, as I conceive it will be found, for the Infpector's invisibility to be preferved, upon condition of giving up that of the visitors, would the former advantage be sufficient without the latter?——Not absolutely: for confederates, as the discrimination could not well be made, might gain entrance in numbers at a time, and while one was occupying the attention of the Infpector, others might by figns concert enterprizes of mischief or escape

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escape with the prifoners in their Cells. Such at least might be the apprehension entertained by some people: at least upon the face of this single suppofition: though to one whose conception should have embraced the whole system of safeguard and defence, the danger would I think hardly appear formidable enough to warrant the incurring any expence or facrificing any advantage.

Upon the first crude conception, as ftated in the Letters, my hope had been, that by the help of blinds and fcreens, the faculty of invisible infpection might have been enjoyed in perfection by the whole number of perfors occupying the central part, wherever they were placed in it, and whether in motion or at reft. I am now affured, and I fear with truth, that these expectations were in fome respects too fanguine. I mean as to what concerns ideal and absolute perfection : at the fame time that for real fervice, their completion, I truft, will not be found to have furtained any material abatement.

Were I to perfift in endeavouring to give this property of invisibility with regard to the Cells as well to the perfon of the Infpector as to every part of the large circle in I which place him, and to every object in it, his fituation would ftand exposed, I am affured

affured, to this dilemma : if he has light enough to do any bufinefs, he will be feen, whatever I can do, from the Cells: if there is not light enough there for him to be feen from the Cells, there will not be light enough to enable him to do his bufinefs.

The difficulty would not be removed, even tho' the Chapel part in the center were thrown out, and the Infpector's apartment extended fo as to fwallow up that central part, and occupy the whole circle. My expedient of diametrical fcreens, or partitions croffing each other at right angles, would not answer the purpose :* if they extended all the way from the circumference to the center, leaving no vacuity at that part, they would divide the whole circle into feparate quadrants : a man could be in but one of these quadrants at a time, and while he was in that one he could fee nothing of the Cells corresponding to the others. Stationed exactly in the center, he would fee indeed, but he could at the fame time be feen from, all the Cells at once. No fpace can ever be fo exactly closed as to exclude the light, by any living figure.

Supposing the apertures I had contrived in the Icreens instead of doors capable of answering the purpose, they would leave to the Lodge to provided

• See Letter II.

but little if any advantage over an annular Gallery at the extremity of the circle, as contrived by Mr. Revely. The circuit might be performed nearer the center, but fill to carry on the process of infpection a circuit muft be performed. Nor could it be performed in an exact circle: the fmaller circle thus meant to be performed, would be broken in upon and lengthened in four places by zigzags, which would retard a man's progrefs more than an equal length of circle, and might upon the whole confume a portion of time little lefs than what would be requifite for performing the perambulation in Mr. Revely's Infpection-Galleries.*

* The truth is, what one would hardly have fupposed, that for performing this perambulation, a walk of about 46 foot and back again in a ftraight line is pretty well fufficient. Station the Inspector any where with his eye contiguous to the outer circumference of his ring, he can, without quitting the fpot he ftands or fits on, command a view of feven Cells on each fide. In the fame ring 46 foot may be defcribed in walking without deviating from the right line: and 46 foot is the length of the chord subtending the fpace occupied in the circumference by 5 Cells. A walk then, in a line equal and opposite to the chord fubtending the part of the Gallery that corresponds to the Dead Part, will give an Infpector in his Gallery a view of the whole circuit. If, as in cafe of the admiffion of female prifoners, the circuit be divided in any flory between a male and female Infpector, the part allotted to each may, it is evident, be commanded without any change

Add to this, that the darkness thus spread over the station of the Inspector, would not admitt of any cure. A candle could not be made to illuminate any object he had occasion to see, without throwing out rays that would render him more or lefs visible, and his fituation and occupation more or lefs apparent, from the Cells. If a fcreen concentric to the circumference of the room were any where interpoled, and light admitted within fide of it by a fky-light or void space over the center of the building, that would increase the length of the mig-zag circuit to be performed through the diametrical screens, still more : if there were no such concentric fcreens, the thorough light would be completely let in, rendering the Infpector and every other object in the room compleatly vilible from all the Cells,

thange of place. The views thus obtained are not, it must be confessed, compleat ones: more or less of every Cell but two being will along intercepted by the Partition-walls. But it is chance only, and not defign, that can withdraw a prifoner in any part of 'the circuit-out of the Inspector's view : never knowing in what part of the Gallery the Infrector is at the time, no one part of any Coll can promife him any better chance of concealment than another.

The calculation, it is to be observed, is taken from the real defign : were the measurement to be performed upon the engraving, the refult, owing to the error already mentioned, would be Will more favourable. .

Happily

Happily this union of incompatible conditions, however requifite to fill up the measure of ideal perfection, is far from being fo with regard to practical ufe. In the narrow annular Gallery, as contrived by Mr. Revely, the condition of invisibility may be preferved, I am affured, in full perfection. By being painted black in the infide that station may be rendered by the help of blinds, as I had proposed, compleatly dark, its narrowness rendering it impermeable to the thorough light.

To change his profpect, the Infpector muft, it is true, be obliged to fhift his flation. He must therefore from time to time patrole and go his round in the manner of a centinel or a watchman: and this must form a confiderable part of the employment. It need not however occupy any thing near the whole.* Stationed at no more than 28 or 29 foot from the exterior windows, and close to the space illuminated by the ample skylight over the Annular Well, he would have light enough to read or write by: and these employments, by the help of a portable stool and desk, he might carry on at times at any part of the cir-

* The greatest distance from one part of his range to the other would be 93 foot, being hilf the length of the circumference of the circle at that part.

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cle. Books may be kept, entries made, as well in a room of an annular figure, as in a round or square one.

Nor will the time employed in perambulation be thrown away, or expended upon the fingle purpofe of keeping order among the prifoners. Had he, inftead of this ring, had the whole circle to range in, he would have had frequent occafion thus to travel in the circumference, were it only to give occafional orders and inftructions to the prifoners as they fit at work in their Cells, as well as to let them in and out in manner already mentioned.*

* See § 3, Annular Well, and Part II. § Airing.

Your occasional wigilance will not do, fays an objector's Your prifoner will make experiments upon it, difcover when Argus nods, and make his advantage of the difcovery. He will bazard a venial trangr fion at a venture : that unnoticed, be will go on to more material ones-Will he? I will foon put an end to his experiments: or rather, to be beforehand with him, I will take care he shall not think of making any. I will fingle out one of the most untoward of the prisoners. I will keep an unintermitted watch upon him. I will watch until I observe a transgression. I will minute it down. I will wait for another: I will note that down too. I will lie by for a whole day : he shall do as he pleases that day, fo long as he does not venture at fomething too ferious sbought yourfelf undifcovered : you abufed my indulgence : fee bow you were mistaken. Another time you may have rope for two days, sen days : the longer it is, the beavier it will fall upon you. Learn from

One expedient there remains by which, if it be worth while, the invisibility of the Inspector may be preferved to him, without the obligation of ever stirring from his feat. This however is subject to two reftrictions: one is, that whenever he quits a particular spot in the room to pass to any other part of the same room he must become visible : the other is that his invisibility is not shared by any other person in the room. The expedient is to place the Inspector in a kind of lantern, schaped somewhat like two short necked funnels joined together at their necks.

Placed as before on a floor fituated midway between the floor and the ceiling of the lowermost of the two stories he commands, his light comes to him from a spot elevated above the eye of a person standing in the uppermost of those stories: confequently in all cases above the eye of any person dwelling in that upper story. Level with his eye whether string or standing, the lantern narrows to such a degree as to enable him to carry his eye, close to the circumference all round, without changing the spot he fits or stands on.

from this, all of you, that in this boufe transgreffion never can be fafe. Will the policy be cruel? --- No; it will be kind; it will prevent transgreffing: it will fave punishing.

To give him his vicw, the lantern is pierced at both elevatious with fmall holes, corresponding, as upon trial shall be found most convenient, each of them to one or two or fome greater number of the These holes are no larger than the aper-Cells. ture of a common fpying glafs, and like that clofed by a piece of glafs, which if neceffary might be coloured, or fmoked, or darkened by a blind. Grant that after all they will not perfectly exclude the thorough light, nor prevent his figure from being to a certain degree visible from the Cells. Still however the part of his figure thus betrayed will be fo fmall, that to the purpose of discovering to a prifoner in his Cell whether the eye of the Infpector is at that moment directed towards him or us, it will be fame thing as if he were invifible. That, by diminishing the apertures to a certain degree, the effect might be compassed, is indubitable: for the lantern might be of the thinnefs of paper; in fhort it might in that part be of paper and then a pin-hole would be fufficient to give him a view. Any opake object to let down by a line and pully on his going out would prevent his absence from being difcernible. The difference between a body of that magnitude constantly at rest and one occafionally

fionally in motion would be marked by the imailnels of the apertures.

At the altitude reaching between the height of his eye when fitting, and the height of his eye when standing, the lantern could not be too narrow: it should be only just wide enough to admitt his head and shoulders with ease. Above and below that height the wider the better, for the fake of air and room, so as it did not swell out in such manner as to intercept his view.

The next question is, how to prevent the prifoners from feeing when it is he quits his station? His exit and return if performed by a door in the fide, would be visible from all or almost all the Cells: his lantern not ferving him in the capacity of a fcreen on fuch occasions to any degree worth mentioning. To prevent fuch difcovery, his entrance must be, not at an ordinary door on the fide, but at a trap-door by a ladder from below. The lantern might however befides that be furnished with a door at the fide, to give him paffage at times when the concealment of his fituation was no longer material, and when he faw occasion to shew himfelf for any purpose to the inhabitants of any particular Cell: for instance to give a prisoner pal-F3 fage

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fage to or from his Cell for the purpole and in the manner already mentioned.

The central aperture, large as it is would be no bar to the employing of this contrivance. The lantern, it is true could not occupy this central part: it must be placed somewhere on one fide of it, in fome part of fome furrounding ring. The Infpector therefore, while stationed in this lantern, would not have a view equally near of all his Cells: but of all he would have fome view, and that, one may venture to fay, a fufficient one: the difference would only be the diftance from the center of the lantern to the center of the building: fay from ten to a dozen foot. The part too from which he was in this manner farther removed might be the Dead part where there are no Cells: a division which upon the prefent plan, occupies five parts in twenty-four of the whole circuit.

Still however an apartment thus circumstanced would not ferve perfectly well for visitors: for they at any rate would be visible to the prisoners: which for the reasons already mentioned, it were better they should not be. Here then comes in one use of the Inspector's Lodge, a room situated within

within the Infpection-Gallery, and encircled by it all round. Many other uses, and those very material, will be observed in it when the construction has been described: uses, to which, it will be equally manifest that a transparent room, fitted up with an inspection lantern, would not be applicable with advantage.

The Infpector's Lodge is a circular or rather annular apartment immediately underneath the Chapel. The diameter I propose now to give it is 54 foot including the aperture in the center.*

The central aperture in this ftory is of the fame diameter as in the area of the Chapel, and the dome that crowns it, viz. 12 foot: it ferves here to light the center of the *diametrical paffage*, of which under the head of *Communications*. This aperture is likewife of farther use in the way of faseguard: for which also fee the head of *Communications*.

* In fome of the impressions of the Draught it appears but 42 foot: difference 12 foot. But of this fix foot is taken away from this part by an error in the Draught as already mentioned: the other fix foot, by the three foot added to the depth of the Inspection Gathery. in this flory: an addition which I have determined to take away: it has no specific use; and it would throw the Lodge fo far back as ro be precluded by the bottom of the middlemost Inspection Gallery from the possibility of having any view at all of the uppermost flory of Cells.

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As the central aperture in the floor of the Lodge gives light to the paffage in the flory underneath, fo does the correspondent aperture in the area of the Chapel give light to the Lodge.

Of these central apertures that which is in the floor of the Chapel takes nothing of the room from vifitors. During Chapel times it is closed: the ftate of darkness to which it thereby reduces the Lodge is then of no confequence, fince at those times nobody is there. So likewife in a cold winter's evening, when day-light gives place to candle-light, the faculty of clofing this aperture will probably be found to have its convenience. Its height, at the circumference, is that of the Infpection-Gallery, about 7 foot: at the central aperture about 132 foot*: within that aperture, about 61 foot: that being the depth below the fky-light by which the central apertures are crowned. The ceiling is confequently a floping one : dropping in the courfe of 18 foot about 6¹/₂ foot : viz. from 13¹/₄ to 7.

• The Draught does not give quite fo much. The higher the better, fo long as it does not raife the floor of the Chapel fo much as that the heads of the Chapel visitors, when flanding, fhall conceal the Minister from the prifoners when kneeling in the fecond flory of Cells.

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All round the circuit, the Dead part excepted, runs a narrow zone of window, to open to the Lodge an occasional view of the Cells. Of these the two lower stories may be seen through the lowermost Inspection-Gallery: the others without any intermedium.

The ways in which this view might be opened are more than one: the fimplest is to put two rows of panes: one for giving a view of the two lowermost ftories of Cells, a little below the highest part of the upright partition : the other for the four remaining stories, in the chord subtending the angle made by the junction of that partition with the cieling. To these may be adapted blinds of coarse white muflin or linnen, pierced every inch or two with eyelet holes about the fize of an ordinary filver fpangle. By this means matters may unquestionably be ordered in fome way or other, fo that no view at all shall be obtainable in the Cells of any thing that paffes in the Lodge : at the fame time that a perfon in the Lodge may, by applying his eye close to any of the holes, obtain a perfectly diftinct view of the corresponding Cells.

By the central aperture, were that all, a moderately good light, it is fuppofed, would be afforded to the Lodge: and this light cannot but receive fome addition

addition from the luminous zone thus given to the circumference.*

To gain the height at which the bufinefs of infpection can in this manner be occafionally performed from the Lodge, an afcent of about 1 or $\frac{1}{2}$ to 2 foot muft be made: this may be done by a circular bench of about 2 foot wide, attached all round to the Partition-wall. It may be diffinguifhed by the name of the Infpection-platform or Infpection-bench.

By means of the lower part of this zone the Inspector of the Gallery attached may himfelf be infpected by his fuperiors from the Lodge: reciprocity will be prevented by the advantage in height given to the commanding flation. He may alfo be relieved at any time: and whenever the windows of the Gallery are thrown open for air, the Lodge fucceeds, in a manner of courfe, to its infpection-powers: the view brightening of itfelf at the time when a view particularly clear is more particularly wanted. So likewife when the In-

* The Pantheon at Rome, which is more than twice the height of the space between the floor of the Lodge and the opening sky-'ight over the aperture, is lighted, and according to Mr. Revely's observation, very well lighted, by an aperture of about twice the diameter of the one here proposed.

fpector

fpector in the Gallery is obliged to fhew himfelf at any particular fpot, for inftance by opening the door of one of the Cells, lofing thereby his omniprefence for the time.*

The Lodge is the heart, which gives life and motion to this artificial body: hence iffue all orders: here center all reports.

The conversation-tubes, spoken of in the Letters, will on this occasion be recollected : here they will find employment in more shapes than one.

One set is for holding converse with the subordinate Inspectors in the two superior Galleries. A small tube of tin or copper passes from the Lodge,

* In a Panopticon which had eight ftories of Cells, it might perhaps be not amifs to make the experiment of the Lantern. It might be performed on a floor between the Lodge and the Chapel : the ladder or fmall ftaircafe to it, like that of a pulpit, afcending through the ceiling of the Lodge. It might be tried at a fmall expence: and in cafe of its not anfwering, it would be eafy to give to this flory the form of the other. Poffibly in different ways both mrangements might have their ufe.

But the forts of P nopticons to which the contrivance of the Lantern is more particularly adapted, are those in which feclusion from fociety would be out of the question, such as Houses of Industry, free Manufactories, or Schools.

† About the fize of a per-flower, a play-thing ufed by children for blowing peas will probably be fufficient.

in an horizontal direction, to one of the fupports of the lowermeft Infpection-Gallery running immediately underneath the roof, to which it is attached by rings. Here, bending to a right angle, it runs up along the fupport till it reaches that one of the two fuperior Galleries for which it is defigned: it there terminates in a mouth-piece level with the ear or mouth if a perfon fitting there. A fimilar mouth-piece is fitted to it at its commencement in the Lodge.

A tube of this fort for each Gallery may be attached to every one, or every other one, of the 19 Gallery-fupports corresponding to the number of the Cells.

The tubes belonging to the different ftories fhould be attached together in pairs, with their respective mouth-pieces in the Lodge contiguous: ' that a superior in that apartment may have it in his power to hold converse with the subordinates of the two different Galleries at the same time, without being under the necessfity of vibrating all the while from place to place.

Whether the voice alone will be fufficient, or whether a bell will be neceffary, to fummon a fubordinate Infpector from the most distant part of his Gallery to the station corresponding to that chosen

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by the fuperior in the Lodge, may perhaps not be capable of being decided to a certainty without experiment. If a bell be neceffary it may be convenient to have one for every tube: and the wire by running in the tube as in a fheath will be preferved from accidents.*

• The power possesses by metallic tubes of conveying the flighteft whilpers to an almost indefinite distance, can be no fecret to fuch readers as have seen any of the exhibitions of Speaking Figures, whole properties depend upon this principle.

Many a reader may alfo have feen Mr. Merlin's ingenious contrivance of written tablets of orders, for mafters above to fervants below, an index pointing to a tablet in the fuperior room, giving motion to an index pointing to a duplicate tablet in the inferior room, upon the principle of the drawing machine called a pantograph. The conversation tubes abovementioned might perhaps fupply the place of those order-tablets, and if at all, with very confiderable advantage. The intercourse by the tablets is *limited* to the few orders they can be made to hold: it is not reciprocal a the apparatus, from what I recellect of Mr. Merlin's price, would I should suppose be more expensive.

For fuch purposes the tube alone without a bell would answer the purpose, supposing the servant to be in the rooms into which it opened, and not unwilling to receive the order: but for summoning him from a distant part of the house, and for putting a negative upon all pretence of not hearing, nothing it is evident but a bell can serve.

The tube, as already mentioned, might ferve as a fheath to enclose the bell: thus the expence of the fheaths, which are at prefent employed in fome cafes, would be faved. At the places

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. The other fet of conversation-tubes is to enable an Inspector in the Lodge to hold converse in his

places where cranks are neceffary, the tubes, that the continuity may not be broken, must be calarged to receive them. Whether the voice would continue intelligible, as well as audible, after fo many inflexions of the tube as may be neceffary in fome cafes im common houfes, is more than without experiment I can pretend to fay. In the prefent cafe there is but one angle, and even that, in cafe of neceffity, might be got rid of.

Wire, by its rigidity being liable to twift and fhap, perhaps the flax of New South Wales, when that admirable commodity comes to be fupplied in fufficient quantities for manufacture, might be fubfituted with advantage.

• Under the different mouth-pieces opening into the fervants spartment, might be painted the names of the rooms to which they respectively corresponded.

Copper, by those who would not grudge the expense, would on feveral accounts be evidently preferable to tim. In the mafter's apartment, gilt mouth-pieces would form an ornamental addition to the furniture.

It is certainly an aukward circumftance, and which occasions much wafte of time in families, for a fervant to be obliged to go up three or four pair of ftairs to receive orders which are to be executed in the kitchen from whence he came.

Since writing the above, I recol ect the having feen a tube employed for this purpofe many years ago at Meffrs. Naime and Blunt's, Mathematical Inftrument-makers, in Cornbill, to great a wantage. It reaches from the bottom of the flaircafe to a level with a workfhop in the garret.

At Mr. Merlin's too I recollect having heard of an inftance in which the principle is employed in a piece of mechanism fet up fince

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own perfon, whenever he thinks proper, with a prifoner in any of the Cells. Fixed tubes, croffing the Annular-Well and continued to fo great a length being plainly out of the queffion, the tubes, for this purpofe can be no other than the flort ones in common ufe under the name of *fpeaking-trumtrumpets*. To an Infpector flationed in the Lodge it is not indeed in every part of every Cell that a prifoner with whom he may have occasion to hold converfe will be already visible. But to render him fo there needs but an order furmoning him to the grating: which order may be delivered to him through the local fubordinate from the Infpection-Gallery belonging to that flory of Cells.

Here may be observed the first opening of that fcene of clock-work regularity which it would be fo easy to establish in fo compact a microcosm.

fince I was there. Difcourfe is carried on in whifpers between two perfons addreffing themfelves to two heads fet up at the oppofire ends of a long room. There must therefore be two angles made; two perpendicular tubes inferted into an horizontal one.

It is curious to think what a length of time an idea may lie, without receiving fome of its most obvious as well as useful applications. For how many centuries was the art of eng aving for impressions practifed to inimitable perfection on small stones, without its occurring to any one to app'y it to plates or types upon a large scale?

Certainly,

Certainty, promptitude, and uniformity are qualities that may here be difplayed in the extreme. Action fcarcely follows thought, quicker than execution might here be made to follow upon command.

Turn now to the good Howard's Penitentiary-Town, and conceive a dozen Tafk-mafters and Turnkeys running on every occasion from one corner of it to the other and back again (little lefs than $\frac{1}{2}$ of a mile) to receive fome order from the Governor, the prifoners their own mafters all the while.

Hither come the cuftomers to fuch prifoners as exercife their original trades: at flated times, to bring materials and take back work: and at moft times to give orders. By the converfation-tubes, converfe for this as well as every other permitted purpofe, is circulated inftantaneoufly with the utmost facility to the greatest diffance. Even the intervention of the local Infpector is not necessfary. A call from a speaking trumpet brings the remotest prisoner to the front of his Cell, where he may be seen by the customer as well as heard. Under. each speaking-trumpet hangs a lift of the Prisoners to whose Cells it corresponds. The names are on separate cards, which are shifted as often as a prifoner.

foner happens to be fhifted from Cell to Cell. As to the two lowest stories of Cells, converse with them may be carried on directly from the corresponding Inspection-Gallery.

The Lodge may ferve as a Common-Room for all the officers of the houfe. Of its division into male and female fides I speak elsewhere. On the male fide the Sub-Governor, the Chaplain, the Surgeon, and perhaps another officer such as the head School-master, may have each his separate apartment, divided however from the rest no otherwise than by a moveable screen, not reaching to the ceiling, and leaving free passage as well round the ceatral aperture as round the Inspection-Platform attached to the furrounding wall.

In this fame apartment the officers, male and female, may make their meals in common. Room is not wanting. Why not, as well as fellows in a College? This furely would not be the leaft active nor leaft ufeful of all Colleges. Too much of their time cannot be fpent in this central flation, when not wanted on immediate duty. No expedient that can help to bring them hither, or keep them here, ought to be neglected. The legitimate authority of the Governor and Sub-Governor will here receive affiftance, their arbitrary power re-PART I. G fraint,

ftraint, from the prefence of their affociates in office. A Governor, a Sub-Governor, will blufh if not fear, to iffue any tyrannical order in prefence of fo many difapproving witneffes: whofe opinion, tacit or expressed, will be a bridle upon his management, though without power to oppose and disturb it. Monarchy with publicity and responsibility for its only checks, such is the best, or rather the only tolerable form of government for such an empire.

In Mr. Howard's Penitentiary Town, each Officer has his house, all separate, and all out of sight and hearing of the prisoners. This latter arrangement may be the more agreeable one of the two to the servant, but which is the best adapted to the fervice ?

The want of fide windows as in other rooms will render it eligible at leaft, if not neceffary, to make a provision of *air-holes* for the purpose of ventilation.

The fupports to the furrounding Gallery, as fhewn in the engraved plan, might, if made hollow anfwer this intention, and fave the making an apparatus of tubes on purpole. In this cafe however each fupport would require an horizontal tube inferted into it at right angles, which might run clofe

clofe and parallel to the conversation-tubes, immediately under the ceiling.

It is at the level of the ceiling that these air-tubes fhould discharge themselves into the Lodge, and not at the level of the floor. In the latter case they could not answer this intention without a continual blass, which in cold weather would be very troublessome. In the other way the blass beginning above the level of the head, is directed upwards and gives no annoyance. Health is not bought at the expence of comfort.

In giving the flope to the ceiling in manner above-mentioned, I had two conveniences in view: ventilation and flowage. To ventilation, which is the principal object, a rectilinear flope in this cafe is more favourable not only than a horizontal ceiling, but even than a coved ceiling or dome. Both would have left a fpace untraverfed by the current: in the one cafe the fpace would have been angular: in the other there would ftill have remained fome fpace for flagnant air, though leffened by the abrafion of the angle.

The reduction of the height of the ceiling at this part leaves a quantity of room, of which fome ufe may be made in the way of *flowage*. From the area of the Chapel the floor muft, as well as the G_2 ceiling

ceiling below, have a certain degree of flope to afford the fecond ftory of Cells a view of the Minifter. But the declivity in the ceiling begins, not under the *circumference* of that area, but much nearer the center, viz. at the central aperture. Hence, after neceffary allowance for thicknefs of floor and ceiling, there will remain a void fpace of confiderable extent all round, the exact dimenfions of which it is needlefs to particularife : Difpofing the flope here and there in regular and gentle flights of fteps for the purpofe of communication, in other places the thicknefs of 2 or 3 or 4 fteps may be laid together to receive drawers or preffes.

A place fill more convenient in proportion to the extent of it, in the way of flowage, will be the fpace immediately underneath the Infpector's platform in the Lodge. It will ferve for preffes or drawers opening into the furrounding Gallery.

A more confiderable fpace runs from behind the two fuperior Galleries, under the fteps of the Chapel-Galleries to which they are refpectively attached. Tools and materials of work of which the bulk is not very confiderable will find very convenient receptacles in these feveral places, where they will be in readiness to be delivered out and received back

back by being handed over the Annular Well, to the prifoners in their Cells.

As to the mode of *warming* the Lodge it will be confidered in the Section fo entitled.*

• How to reconcile the use of the Lodge as a Dining room with the purity of air necessary to the reception of company in the Chapel? By making the Saturday's dinner the last meal, dedidicating to ventilation the whole interval between that period and the commencement of Divine fervice in the ensuing day.

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§ 9. Communications.

§ 9. OF THE

COMMUNICATIONS IN GENERAL.

UNDER the general name of Communications may be comprised,

1. The Paffages, and Galleries ferving only as paffages.

2. Staircafes.

3. Gates, Doors, and apertures answering the purpose of doors.

None of these but are articles of very material concern in a prison.

In a Panopticon prifon one general problem applies to all: to extend to all of them, without exception or relaxation, the influence of the commanding principle. Cells, Communications, Outlets, Approaches, there ought not any where be a fingle foot fquare, on which man or boy fhall be able to plant himfelf, no not for a moment, under any affurance of not being obferved. Leave but a fingle fpot thus unguarded, that fpot will be fure

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§ 9. Communications. 87

to be a lurking place for the most reprobate of the prifoners, and the scene of all forts of forbidden practices.

In an ordinary public building there is an use in having the Communications spacious and numerous. In a prifon they ought rather to be few and narrow. Convenience is the great object in the one cafe, fecurity in the other. The fewer the eafier guarded: the narrower, the lefs force there can be at any given point to oppole to the commanding and defensive force of the prifon. Nor will the facrifice requifite to be made of convenience be found fo great as might be imagined. In an ordinary public building, perfons have occafion to pass in indeterminate numbers at a time, and the fame perfon frequently. In a well-contrived and well-regulated prifon, at least in a prifon upon this construction, the perfons who are to pais, and the times at which they have occasion to pass are all foreknown and registered .- Sacrifice did I fay? The reader has already feen much convenience gained, and I hope he will fee fcarce any facrificed.

The objects that required to be attended to in planning a fystem of Communications for an establifhment of this kind were, 1. The ends to be kept in view in the contrivance. 2. The places to and G 4

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88 § 9. Communications.

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from which Communications were to be contrived : the perfons and things for which the Communications might be wanted.

The ends to be kept in view with regard to the prifoners are principally four.

1. Uninterrupted expolure to invihible infpection.

2. Inability to attack the keeper or do other mifchief.

3. Separation of the fexes, if both are included in one building.

4. Prevention of converse with prisoners of other Cells, at times of passing to and fro.

The places in question are, 1. The Cells. 2. The Infpection Galleries. 3. The Infpector's Lodge. 4. The Chapel. 5. The Ware-rooms. 6. The Fire-places. 7. The Yards.

The perfons in question are, 1. The Prifoners. 2. The Keepers. 3. Visitors to the Head-keeper and other officers, on business or curiosity: 4. Visitors to the Chapel.

The things in question may be reduced to the head of, 1. Machines. 2. Materials for work. 3. Finished work. 4. Provisions.

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10. Communications-Prifoners' Stair-Caefs. 89

§ 10. COMMUNICATIONS-

PRISONERS' STAIR-CASES.

S TAIRCASES for the Prifoners are of course requisite from the bottom to the top of that part of the building which they are to inhabit: from the funk flory below the Cells to the upper flory of the Cells.

I make two fets of Staircafes and but two—I put them into the Dead-part—I place them in ftories one over another, and not, as was once propoled to me, winding all over the building—I place them in a line within the inner boundary or back front of the Cells, yet not extending fo far the other way, as to the exterior boundary or fore front— I make them of iron bars—I make the flight of fteps run in a direction parallel, and not at right angles, to the Cell-Galleries and Infpection-Galleries—I give them Pully-doors with warning-bells where they open into the Galleries—I carry them down

90 § 10. Communications-Prifoners' Stair-Cafes.

to the funk flory below the Cells-I make them at the utmost not wider than the Galleries.

1. I make two of them, partly to fhorten in fome degree the paffage to each, but principally to provide for the feparation of the fexes, if both are received into one building, as in a building of this kind they might be without inconvenience.*

2. I make no more than two. In a building for ordinary uses this number might be fcanty: it is not fo in such an one as the present. The occafions on which they will be wanted are few : they may be all known and numbered.[†]

* See the Section on the Separation of the Sexes.

+ 1. For meals they will not be wanted. The provision is hoifted up to the Cells in trays or backets, by cranes, one on each fide: a tray for each flory of Cells. In each flory one or two prifoners diffribute the contents among the Cells. Two double Cells being taken off by the Dead part, nine remains on each fide, with an odd one in the middle: this makes at two prifoners to a Cell, to each flory twenty meffes to be hoifted up on each fide: at three prifoners to a Cell, 30.

There remains only airing-times as far as the prifoners are concerned. On Week days I air them by walking in a wheel without doors, [See the fection on Airing.] Airing times occur for each prifoner but twice in the twenty-four hours. Were it much oftener, the time employed in defeending and reafcending would not be altogether loft : it would go in part of exercise : a neceffary article of regimen

• § 10. Communications-Prisoners' Stair-Cases. 91

3. I place the staircases of different stories in one pile one over another not in a spiral running

gimen for fedentary employments which cateris paribus I prefet

Infpectors, Keepers as fuch, have fcarce any occafion to enter the Cells. Stationed no more than 25 foot from the most distant part of a Cell, and from the nearest no more than eleven, nothing but the occafion of taking a minute examination of fome small object can summon them thither. Once a day at most will be amply fufficient. The prisoners they let in and out of their Cells, without quitting their own station, in manner hereafter described. They have besides for their separate use, if necessary, the Lodge-Stair-case for their lowest floor, and the company's Stair-cases for the two floors above it.

For Tafk mafters as fuch, the occafion to ufe thefe Staircafes is but little more frequent. Their bufinefs lies in the Cells : all day long, unlefs it be at mealtime, they will be in one or other of the Cells. Raw materials may be diffributed, and finished work collected, at flated periods, in the fame manner as the provisions. This operation may be directed by the Inspectors without firring from their Galleries. If a Tafk-mafter as fuch looks to it, it will be without going backwards and forwards on purpofe, once upon his entrance up in his bufinefs, and once upon his leaving it.

With prifoners who work at trades they have been bred to, Tafk-mafters will have no hing to do. In many inftances inflruction may be conveyed from the Infpection Gallery: and fo tar there are no Tafk-mafters diffinct from Keepers.

In ordinary Prifons it requires refolution to be a Keeper : a quality in which men who have been bred to fedentary trades are liable to be

92 § 10. Communications-Prisoner's Stair-Cafes.

gound the building. In the latter cafe the prifoners in each fide would in their afcent and defcent pafs each of them by the Cells of all the floors below his own. But fuch a perambulation would but ill accord with that plan of feclufion, which, from the mitigation given to it may and ought to be adhered to with the greater ftrictnefs. On the plan here preferred, the perambulation and thence the oppor-'tunity of converfe is reduced to its leaft limits.*

4. I place them in the Dead-part. 1. Becaufe by that means I do not make facrifice of any of the Cells: 2. Becaufe I thereby bring them within reach of the Governor or Sub-Governor or both, in fuch manner that those officers may give an eye that way, without quitting for the purpose the Projecting front, in which will be the principal abode of the one, and the occasional business of the other.

be deficient. But in a Prifon where a Kceper never need fee a prifoner, without either a wall, or a grating, or a fpace of feven foot between them, the moft arrant coward need not fear being a Keeper. Courage is simoft a fuperfluous virtue.

• The prifoners of a Cell neareft the Stair-cafe have no Cells 'at all to pais by: those of a Cell the most remote, but sinc. Their instructions are—not to stop or speak as they pais: and for "the observance of that rule, effectual fecurity is provided, as will 'be seen under the head of *diring*, as also a little below.

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§ 10. Communications-Prifoners' Stair-Cafes. 93

5. I place them within the interior boundary or back front of the Cells, and confequently within the line of the Cell-Galleries. This I do, that the width of the Cell-Galleries in that part may afford fufficient landing-place, as well for a prifoner when he has opened the door leading to the ftaircafe from the Cell Gallery, as to an Infpector in his way to the prifoners' Stair-cafe from the Infpection-Gallery, of which a little further on.

6. Instead of carrying them home to a line with the fore front or exterior boundary of the Cells, for as to occupy the whole depth, I make them fall short of that line by a few feet, fay four feet, exclusive of the thickness of the wall, and the aper-2 tures, corresponding to windows, that may be made in that thickness. In the space thus referved I put water-closets, at leaft for the Govornor's house on his fide: more especially on his ground floor. In this recess he commands without being seen, a view of the Staircafe : by which means he is necessarily obliged, as well as without trouble enabled, to give a look into the Prifon once a day at leaft, at uncertain and unexpected times. The ground-floor is more peculiarly adapted to this purpofe, fince from that station his chance of getting a fight of the prifoners as they afcend and defcend, extends to the

94 § 10. Communications-Prisoners' Stair-Cases.

the inhabitants of every flory of Cells in the femicircle on that fide: Whereas on a fuperior flory the chance would not extend to fuch of the prifoners whofe Cells were fituated in any inferior one.

7. The Stair-cafes are of iron bars and not of brick or ftone.—_____1. That they may be the more airy. 2. That one part may intercept the light from another as little as possible.—_3. That the prisoners as they go up and down may be exposed as much as possible to view from the Inspection-Galleries in that quarter.

8. It is also for the latter reason that the flights of steps run parallel to the Inspection-Galleries. Had their course been at right angles to those Galleries, the Stairs being interposed between the prifoners in their ascent or descent and the Inspector's eye, would have screened them from his view.

9. The use of the Pully-doors, which on opening ring warning bells, is to give notice of the approach of a prisoner, upon an occasion mentioned elsewhere, to the Inspector, who by that means is furmoned to let him into his Cell, and in the mean time to have an eye upon his motions.

10. I place the doors, as in a *Protracted-Partition*, croffing the Cell-Gallery at that part in its whole width

§ 10. Communications-Prifoners' Stair-Cales. 95

width, and confequently terminating in a line with the balluftrade: the door being hung on at the fide neareft to the Cells, and opening from the landing place, behind which runs the Staircafe upon the Cell-Gallery: and not from the Cell-Gallery upon the landing place. In this way, partly by the wall, partly by the mode of opening, the view is pretty effectually cut off, as between the prifoners on the Staircafe and thofe within the Cells.*

11. In making the Staircafes at all wider than the Galleries there would be no ufe. 1. There can never be any occafion for conveying by the former any thing that cannot pafs along the latter. 2. There is not even fo much occafion for width in the staircafe as in the Galleries, fince any thing that could not be conveyed by the staircafes might be hoisted up into the Galleries by the crane. 3. Any thing that required greater width might be conveyed, either by the Lodge Staircafe cr thro' the Central Aperture, to the Inspection Gallery on that floor, and to the two higher floors by the Chapel-Visitors' staircafes, of which prefently.

• If it were worth while, the view might be full more completely cut off, by adding another door parallel to the former, opening upon the landing place.

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66 § 11. Communications-Infpector's Stair-Cafes.

§ 11. COMMUNICATIONS— INSPECTORS' STAIR-CASES.

A Stothe Keepers, Infpectors, or Tafk-mafters, there are three fets of Staircafes of which they may have the ufe. The two first are the two fets of Prifoners' Staircafes just mentioned: the other fet is that composed of the Lodge Staircafe on the lower floor of the Infpection Tower, and the Chapel-Visitors' Staircafes in the two upper ones.

In addition however to the Prifoners' Staircafes there will be required for the Infpectors' from their Galleries fhort paffages or Staircafes of Communication traverfing the Intermediate area. Thefe I call the *Traverfing* or *Infpectors'* Staircafes.

To make the Infpector's Staircafe I proceed in this manner. At the fide of the landing place opposite to that in which I have placed the door, I carry the Cellular Partition-Wall all the way up, not only across the region of the Cell-Galleries, but also across the Intermediate area, so as to join the Infpection-Gallery. 'By this means a folid opake back is given to these Staircafes in every ftory:

§ 11. Communications_Prisoners' Stair-Cafes. 97.

ftory: and a compleat feparation is made between the feveral piles of Cells with their Staircafes and the remainder of the Dead part. Parallel to this, and between this and the pile of Staircafe, doors, at the diftance of about 4 foot, I place a thinpartition all the way up, with blinded fpying-holes running in the line level with the Infpector's eye.

Between the two run two narrow flights of fteps, no more than about two foot wide each: by that which is nearest the thick partition, the Inspector defcends to that part of the Prifoners' Staircafe which is upon a level with the inferior one of his two ftories of Cells; by the other, he afcends to that which is upon a level with the fuperior one: or vice ver/a. Each flight of steps, upon its gaining the landing-place is croffed by a grated door of equal width, made in the grating which on that fide forms a boundary to the landing-place from top to bottom, and opening upon the landing-place. This door, which is kept constantly locked, the key being in the cuftody of the Infpector, ferves when fhut to keep the Prisoners from straggling out of their Staircafe over the Infpector's Staircafes; to pry into the Infpection-Galleries. Being of open work, it affords the Prifoners in their Staircafe a fight, it is true, of an Infpector when croffing over . PART I. Η to

98 § 11. Communications __Prifoners' Stair-Cafe.

to them on his Staircafe. But this transient expofure is no derogation to his omniprefence. To, all who fee him he is prefent: nor is he abfent with regard to those who do not fee him: fince from his not being prefent where they can fee him, viz. on his Staircafe, it does not follow but that he may be prefent at fome other part of his station, from whence he may be viewing him while he is himfelf invisible.

It is needless to dwell very particularly on the apertures which for the fake of ventilation maybe made here and there in both these traversing partitions, as likewise in the interior transverse boundary of the Staircase, from whence the thicker of those partitions is continued: the use of them is to give room for currents of air to pass in a horizontal direction as well as in the perpendicular one.

Those which might be acceffible to the prisoners, viz. those made in the partition wall of the prifoners' Staircase, are in dimensions not big enough, to give passage to the body of a man or boy : fituated out of the reach of the prisoners, they are clofed by opening or fliding windows or shutters, capable of being opened and shut by a pole, to which the Inspector has access, and the prisoners not without his leave.

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§ 12. Communications_Chapel Stair-Cafes. 96

§ 12. STAIRCASE FOR CHAPEL VISITORS,

AND FOR THE

OFFICERS APARTMENTS.

TO the Staircafe for company reforting to the Chapel, I allott the middle one of the five piles of Cells. Of the lowermost of these half the height is occupied by the upper part of the Diametrical paffage through the funk story. The passing to this Staircafe, 20 foot in length, taking that for the depth of Projecting front, will be right over the above mentioned Diametrical one. To reach this elevation there will be an afcent of 41 from the ground to be performed by 7 or 8 steps.* To light it, which can only be done from above, will require the facrifice of the center one of the 5 uppermost Cells, the four others of which are destined for the Infirmary. The reasons for

• This inequality is owing to the want of coincidence between the flories of the Infpection Tower, and those of the furrounding Cellular part: an irregularity produced by the contrivance of allowing two flories of the part to be inspected to each flory of the part from whence the inspection is to be performed. H 2 using

100 § 12. Communications...Chapel Stair-Cafes.

using iron not applying here, I make this Staircafe of stone. Being in use only on Sundays for promiscuous company, and then for no more than four or five hours of that day, it may serve for the Officers' apartment on each side: on which account the expence of stone need the less be grudged.

By two paffages, one over another, and croffing the Intermediate area, it will diffribute the different companies to their respective feats through the channel of the Infpection Galleries. Of these paffages the lower one is upon a level with the area of the Chapel : the upper one, upon a level with the uppermoft Infpection-Gallery. The area of the Chapel being $4\frac{1}{2}$ foot below the level of the middlemost Infpection-Gallery behind it, the paffage divides itfelf into three. The central part reaches the Chapel area without change of level, by a trench cut through the Infpection-Gallery to that depth : on each fide of it is a flight of fteps, 7 or 8 in number, by which fuch of the company as propose to fit in the lowermost of the two Chapel-Galleries will be conveyed through the Infpection-Gallery of that flory to that elevation. The uppermost passage, having no area to lead to, will be uniformly on an elevation with the Infpection-Gallery and Chapel Gallery to which alone it leads

5 12. Communications_Chapel Stair-Cafe. 101

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The Infpection-Galleries, encircling all leads. round the Chapel Galleries to which they are refpectively attached, will difcharge the company through doors made in any number of places that convenience may point out. The company who go to the area of the Chapel will have an afcent of $13\frac{1}{2}$ feet to make to reach their defination : those who go to the lower Gallery, 18 feet: those upper, 36 feet.

With the Company's Staircafe and the paffages attached to it, the Prifoners' Galleries and Staircafes, it may be objected that these possess an indirect communication. But fo must every part of every prifon with every other and with the exit. In the prefent inftance this communication is not fuch as can be productive of the smallest inconvenience, either in the way of danger of escape, or in the way of offenfive vicinity with regard to sthe company. To make use of the Company's Galleries in the way of escape, Prisoners must first have forced their way into one of the Infpection-Galleries. How is this to be effected? And at night should they, after having forced the grating of their Cells, attempt to force the door that opens from their Staircafe into the Infpection Gallery, there they find the Inspector, whose bed is stationed close to that door, that he may be in constanreadinefs

H 3

102 § 12. Communications_Prisoners' Stair-Case.

readine's to receive them. As to vicinity, the nearest part of the prifoners' Staircafes will be at 12 feet distance, nor will they be any of them on any part of those Staircafes at the time : the doors that open into them from the Cell Galleries will then be locked. As to view, the prifoners. Staircafes are indeed open : but this only in front, and the company's Staircafes and Passages are closed : nor will they fee any thing of the prifoners, till from their feats in the Chapel, they behold them at a distance on the other fide of the Intermediate Area, ranged in order in their Cells.

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COMMU-

13. Communications_Cell-Galleriet. 103

§ 13. CELL-GALLERIES.

UNDER the name of Galleries have been mentioned, 1. The Prifoners', or Cell-Galleries. 2. The Infpection-Galleries. 3. The Chapel-Galleries. It is only the first that come under the head of *Communications*. The two others have been spoken of already.

Of the Cell-Galleries little need be faid. Attached to the feveral flories of Cells, they hang over one another and over the Grated paffage, which but for its grating would form a part of the Intermediate area. I give then four foot in width: with balfuftrades of about 3[±] foot high. Thefe fences fhould in height be of more than half that of a man, not only to prevent his falling over unawares, but left a defperate prifoner fhould by a mere push have it in his power to throw over a keeper or fellow-prifoner: more than the height neceffary to afford that fecurity is fuperfluous, and it tends to reduce the fize of the packages capable of being hoisted up from the Intermediate area into the Cells.

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I make

104 § 13 Communications_Cell-Galleries.

I make them of bars rather than folid work for the fake of ventilation. and of iron rather than wood for the fake of strength and durability.

Underneath the Galleries runs the paffage called the Grated Paffage, of the fame width with those Galleries, but on a level with the Intermediate area below, from which it is feparated by a grating alfo of iron, and reaching from within the thickness of a man (orrather of a boy) of the floor of that area, to within the fame thickness of the under furface of the lowermoft Cell-Gallery under which it runs. Into this the prifoners are received upon their landing from the lowest Staircase, instead of being turned loose into the Intermediate area, where they would have unlimited access to the under Warehouses, and by introducing themselves immediately under the Inspection-Galleries, station themfelves out of the reach of the Inspector's eye.

Through this Grated Paffage there must be doors which may be of the fame materials, to give access to fervants, or prisoners employed as fervants, to the fire-places, and other offices under the Cells. On each fide of the Diametrical-passage there must be at least one pair of such doors, and there may be any greater number that convenience may require.

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The

§ 13. Communications_Cell-Gallaries. 105

The form of the balluftrades is not altogether a • matter of indifference. On account of cheapness and transparency, the upright bars should be as few and as flender as the regard due to ftrength will allow. On account of fafe-cuftody, the form should be fuch in every part as to preclude a prifoner from taking a fpring from them, to as to jump upon the roof of any of the Infpection Galleries, which, in a horizontal line, will in the nearest part be at not more than 8 foot diftance. On this account the upright bars, inflead of finding feparate horizontal bars at bottom to meet them and afford them fupport in a line exactly under them, are inflected towards the bottom, and the perpendicular part and the horizontal being both in one piecc, the former receives fufficient fupport from the latter, and the first transverse piece that prefents itseff capable of affording a man a treading place to fpring from, runs two or three inches within a perpendicular let fall from the rail. Prevented in this way from rifing to an upright pofture by the overhanging rail, it would be impoffible for the most active jumper to take the smallest spring: he would tumble directly down like a dead weight. Such a configuration may often be feen in balconies, though given without any fuch view. On the

106 § 13. Communications-Cell-Galleries.

the fame account the rail, inflead of being flat fhould be brought to an edge, in fuch manner that the fection of it fhall exhibit a triangle, either equal-legged or right-angled: and if right-angled, with the right angle within-fide, fo that the fide oppofite the right angle may form a flope too fleep to fpring from.

These precautions, which would neither of them. cost any thing, seem abundantly sufficient: is not, there are a variety of ways in which the deficiency might be effectually made up: though perhaps not without some little inconvenience or expense.*

• For inftance to crown the rail with fpikes, which fhould be fharp and flender: or to let fall, from the bottom of the balcony above, a row of bars projecting in fuch a manner as to render it impofiable for man or boy to fland upon the rail, in a pofture fufficiently near to an upright one to enable him to take a fpring.

DOOR

§ 14. Communications_Doors. 311

§ 14. DOORS.

THE only ones that need any very particular notice are the Folding-doors that form the grating to the Cells. These Folding-doors open outwards: 1. Becaufe by this means they may be made fo as when unlocked, to lift off the hinges, in order to give admittance to machines and bulky packages : and this, as I am affured by my profeffional guide, without prejudice to the fecurity they afford: 2. Becaufe the opening of them inwards would be productive of continual embarraffment, unless within each Cell a space, equal to that required for one of the leaves to turn in, were left vacant and of no use. The two leaves I make unequal: the leffer fomething lefs than 4 foot, the width of the Gallery: the larger, will of course take the rest of the fpace, viz: about 6 foot. The leffer is the only one I defign to open on ordinary occasions: were it equal to the other, that is, were it about g foot, its excefs of length, when open, beyond 4 foot (the width of the Gallery into which it opens) would

108 § 14 Communications_Doors.

would prevent its opening to an angle fo great as a right angle: whereby the paffage it would afford to bulky packages would be proportionally narrowed.

As to locks, those contrived by the Rev. Mr. Ferryman, for the late Mr. Blackburn, and by him made use of in the construction of the Gloucefter Goal, I truft to upon the report of that ingenious architect as incapable of being picked: as fuch, if they are not dearer than ordinary ones in a proportion worth regarding, they will of courfe demand the preference. But the infpection principle, without detracting any thing from the ingenuity of the invention, takes much from the necelfity of that and many other prifon contrivances. For in a Panopticon what can be the necessity of curious locks? What are the prifoners to pick them with? By what means are they to come at any fort of pick-lock tools, or any other forbidden implements? and fuppofing the locks of these doors picked, and the locks of more than one other fet of doors befides, what is the operator the better for it? Lock picking is an operation that requires time and experiment, and liberty to work at it unobferved. What prifoner picks locks before a Keeper's face

An appendage which will have its use in the ice france of every door to which the prifoners have accefs

§ 14. Communications_Doors. 109

accefs, is a *warning-bell* attached to it in fuch a manner as to ring of itfelf upon every opening of the door. The door fhould likewife be made to fhut to of itfelf, for inftance, by the common contrivance of a weight with a line paffing over a pulley. By the former of these implements the attention of the Inspector is drawn upon the prisoner: by the latter, the prisoners are prevented from rendering the bell useles by leaving the door open by design or negligence.

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COMMU-

110 § 15. Communications_Diametrical Paffage.

§ 15. DIAMETRICAL PASSAGE.

ON the funk flory, right through the center of the building, and leading from the approach through the center of the projecting front, runs the only thorough paffage called the *Diametrical Paffage*. It ferves for the following purposes.

1. Admitting the Officers of the Houfe and Vifitors into the Infpector's Lodge. 2. Admitting machines and bulky packages into the Annular area, from whence they may be either conveyed into the Store-Rooms on that floor, or by pullies or cranes hoifted up into the Store-Rooms in the roof over the Cells.

Lengths of the Diamatrical Paffage. From the door in the Projecting front to the circumference of the exterior circle of the Cellular part—fay — — — 20 From the circumference of the great circle to the exterior circle of the Intermediate area: viz. that part of it over which run the Cell-Galleries. — — *17 N. B. Here it meets the light from the fkylight that crowns the Intermediate Area.

• In forms of the imprefiions of the draught by miftake but 16. Brought

§ 15. Communications_Diametrical Paffage. 111

Brought over 37 From the Outer to the inner circumference of *11 the Intermediate Area From the inner circumference of the Intermediate Area to the circumference of the cen-+26 tral aperture in this ftory. -----N. B. Here it again receives the light in like manner from above. From this anterior part of the circumference to the pofferior part 12 From the posterior part of the circumference of the central area to the inner circumference of the intermediate area on the other posterior fide. 26 N. B. Here it again receives the light. From thence to the interior Circle of the Grated paffage under the Cell-Galleries on that fide 7 119 Here it is cut into three, in a manner that will be defcribed in speaking of the Exit.

On the details of this Staircafe with regard to fituation, dimensions, and form, it is neither easy nor

* In fome of the imprefiions by the fame mistake 15.

† In fome imprefiions by the fame miftake but 23.

neceffary

12 § 15. Communications_Diametrical Passes.

neceffary at this ftage of the defign to make a fixed decifion. They are left very much at large by the governing principle, and convenience on this head will depend in good measure on local circumftances, fuch as the form and dimensions of the Under Warehouse against which the Staircase will abut, and the form and dimensions of the Officers apartments on that side, in or near the Projecting front.

(The form which in a general view appears moft advantageous, is that of a ftraight and fimple flight of fteps without return or curvature. The convenience of a return is, that half the room is faved: the inconvenience of it is, that the fpace, a man has to traverfe in order to reach a given point, is augmented, to the amount of what would be the whole length of the Staircafe, if laid out in a right line. The point however at which it terminates and opens into the Lodge, fhould at leaft not go much beyond the central point of that apartment, left through ignorance or defign, accefs fhould be gained to the Infpection-Gallery and thence to the Cells, by vititors to whom fuch privileges might not be thought fit to be allowed.

Regularity

§ 15. Communications_Diametrical Passage. 113

Regularity would require, but convenience does hardly, that on the right hand of the paffage there fhould be a fimilar flaircafe.*

At the line where it falls into the anterior part of the Central Area, the Diametrical Paffage is croffed by a pair of folding-gates of open iron-work occupying its whole width. These gates prevent promiscuous visitors from advancing any farther, and straggling either into the Warehouse on each side, or the posterior part of the Intermediate Area,

Before it reaches this transverse gate it receives no fide doors on either fide. Such doors, if opening into the anterior part of the Intermediate Area, would require porters to guard them: if into the W arehouse, viz. the space between the Intermediate and Central Area, they would render it less fase to make use of the labour of the prisoners in that part of the building.

The pavement of the Diametrical Paffage being upon a level with that of the Annular Area, and the

PART I, I

exterior

^{*} The right hand fide of the Prifon being for males, requires the moft watching and the greateft refort, as well on account of numbers as of fex. Hence I make this fide of the Lodge the principal one for the abode of the officers, and for the reception of cuftomers and other vifitors. It is therefore on the other fide that the room for the Staircafe can be ft be fpared.

114 § 15. Communications_Diametrical Passage.

exterior furface of the crown of the Arch level with the floor of the lowermost Infpection-Gallery and that of the Inspection-Lodge, the *height* of this paffage will be in the clear about 11 foot, and including the thickness of the Arch, 12 foot.

In the floor of the Lodge the Central Aperture will in the day be in general left open, in order to give light to the Central Area. At bed-time it might either be clofed for warmth, or left open for fecurity: in order to expose to the view and offensive force of a Keeper lying with a light in the Lodge, any prisoner or prisoners, who contrary to all human probability should have made such progress in a project of escape, as to find themselves in a fituation to make an attempt upon the transverse gate.*

At the foot of the Staircafe to the Lodge might noe a door, the opening of which should ring a

* The cover for the Central Aperture might be fo constructed as to form, when lifted up on hinges, a parapet, answering the purgole of a ballustrade, each quadrant turning upon a hinge at the circumference. There would only need a few bars to hook on horizontally, to compleat the circuit. Or, though the aperture were circular, the cover to it might might be fquare. A central piece to lift off, of 4 foot diameter in the one cafe, or 4 foot fquare in the other, would reduce the height of the parapet to 4 foot.

warning-

§ 15. Communications — Diametrical Passage. 115

warning-bell, to advertife the Infpector of the approach of vifitors as he is fitting in his Lodge. In confideration of this fecurity, added to that of the Porter flationed at the entrance into the Approach, the front door, opening from the Approach into the Diametrical Paffage, need not be locked; nor will any fuch perfon as a Turnkey. or Porter to the houfe, be neceffary. At the foot of the Staircafe, vifitors might be flopped from proceeding farther without ringing a bell and obtaining the affiftance of the Infpector in the Lodge, which by the help of known contrivances he might afford without flirring from his feat.

To protect the Lodge, when thus thrown open, from the cold blafts of a thorough paffage, it will probably be thought necefiary to add to the grated gates above mentioned a pair of clofe folding doors: as likewife a fimilar pair of doors on the oppofite or pofterior fide of the Central Area. With this defence from cold, there need be the lefs fcruple about flationing a Keeper to fleep in the Lodge, with the Central Aperture open in the floor.

COM-

§ 16. COMMUNICATIONS-

EXIT INTO THE YARDS.

THE Exit into the Yards is one of the nicest parts of the anatomy of the prifon.

The Diametrical Paffage when arrived at the anterior circumference of the farther fide of the Annular Area, is abforbed by it : but recommencing at the pofterior circumference, is there cut into three branches: a middle one, being a line of ommunication joining without difcontinuance the Infpection-Gallery over-head to the *Watcb-hou/e*, or *Look-out*, that ferves for the infpection of the Yards: and two lateral ones, one on the male, and the other on the female fide. Taking their common departure from the grating of the Annular Grated Paffage, theyrun on in parallelifm, like a nerve, an artery and a vein.

The nerve which conveys to the most diftant extremity of this artificial body the all-vivifying influence of the inspection principle—the line of communication

.§ 15. Communication_Exit into the Yards. 117:

communication, I mean-at it origin in the Inspection-Gallery, preferves its level for fome space : that is, fo long as it hangs over the Intermediate Area, and till it reaches the region of the Cell-Gallery. While it does fo, I call it the Inspector's Bridge: and, to diffinguish it from a fimilar pass on the outfide of the building, the Inspector's Inner. Bridge. At that line, in order to fall within the width of the Grated Paffage, and get from thenco into the Arch that leads to the outfide of the building, it makes a fudden drop.* Four feet being the whole width, two of them are allowed to form the flope at the defcent, the other two are allotted to give room for the Infpector at the inftant after his landing, and before any part of his body is within the Arch.+ The fpace occupied by the first two of these four feet I call the Inspector's Drop:

* Of the making this fudden drop, inftead of giving the line of communication in that part a regular defcent, commencing at the Infpection-Gallery, one reason is, that it may not block up the Intermediate Area, and obstruct the introduction of bulky packages from the Diametrical Passage. Another use is, the forcing the Infpector to take a view, in his defcent, of the Diametrical Passage and the Warehouses on each fide, as will be feen prefentlys

† Two foot is no great thickness: but a man of greater co pulency is certainly not fit to bear an executive part in the government of a prifon.

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that:

that occupied by the other two the In/pettor's Landing-place. Under the lowermost ftory of the Prifoners' Cells all round runs a funk story of Cells composed of arches of the same width, and depth, but wanting a foot and a half of the height of those which compose the Cells. That part of the line of communication which runs through and occupies one of these fubterraneous Arches, I call the Straits. The whole width I divide into three paffages: the middle one, being a continuation of the Inspector's Landing place, I call the Inspector's Straits. The two others, one on each fide of the Infpector's Straits, receive the Prifoners and conduct them through the Arch from the Grated paffage: thefe I call the Prifoners' Straits. The floor of the Infpector's Straits I make as much higher as the height of the Arch will admitt, above the floor of the Prifoners' Straits on each fide: the reason is, that he may have the more commanding view of them, as he and they go out together. As a farther help, their floor may drop a ftep just before their arrival at this pafs: and from thence it may fink a little further by a very gentle flope :* andthe

* This flope would have the farther use of facilitating the carrying off the water employed in washing the Intermediate Area. advantage

§ 15. Communications Exit into the Yards. 119

advantage would be encreased, by giving an arched form to the partition on the fide of the prifehers on either hand, the curve bending from his fide towards theirs. In this way the advantage given him may amount to about 14 inches; a fuperiority which, taking into the account the differences of height between man and man, feems to be as much as can be requisite. This superiority will be thus made out : f. m. Diftance from the floor of the Cell above (thickness of the Arch included) to the floor of the Grated Paffage beneath-7 6 Fall of the latter floor by a ftep - 0 10 Total depth of the floor on which the prifoners tread, below the floor of the Cell above _ ------ ., -8.4 Thickness of the above Arch . I O. Space allowed in height for the Infpector's 6 paffage _____ Ił Distance of the Platform he walks upon below the floor overhead -7 1 Distance of the floor the priseners walk upon below the fame level, as before 8 . 4 Substract the Inspector's distance. 7 · I Remains the height of the Infpector's foot above that of the prifoners. I 2 In. I4.

In point of width, the line of communication, at its origin from the Infpection-Gallery, and before it reaches the entrance of the Arch, has no particular limitation:* but at that pafs, which I call the Straits, it must conform to the dimensions which the width of the Arch allows, after refervation of a fufficient space for the prisoners on each fide. If any thing like difficulty occurs any where, it must be at the very entrance into the Archi lince from that pass it widens gradually to the Exit. Ought the width of all three paffages to be alike? or should any, and which, have the advantage in this respect over the other two? The occasions which Infpectors will have to pafs one another will occur but 1arely: but in the inftance of the prifoners, these occasions will be still more unfrequent. On week days, twice a day each prisoner descends to the Airing-wheel: but fhould they defcend even in pairs, or three's, they would not crofs one another at all: for one does not quit the Wheel till another has arrived there. Neither on Sundays is there any occasion for them to crofs, at least at this particular fpot: and all their motions may be

* Except with reference to the opposite Cell: of which it evers from a direct view, a width equal to its own. On this account, the narrower the better.

pre-

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pre-determined and provided for. Reftraint is fuitable to their condition, freedom to that of the Infpector. A confined fpace will have the further use of cramping any exertions a prisoner might be disposed to use, in the view of bursting in upon an Inspector when engaged in so narrow a pass, with a partition between them of so little thickness.

Here follows then an example of the dimensions in point of width that might be given to these passages.

Clear width of the fpace for the male prifoners' paffage, on the	At the en- trance into the Arch.		At the exit from the Arch.		
right hand fide of the Infpec-	f.	in.	f.	in.	
tor's paffage. —	2	6	4	2	
Thickness of the partition of the					
Infpector's paffage. —	0	7	O	.7	
Clear width of the Infpector's			;		
passage. — —	3	10	4	0	
Thickness of the partition of					
the Infpector's paffage on the					
female fide. —	ο	7	0	7	
Clear width of the female pri-					
foners' paffage. —	2	6	4	2	•
	10 0		13	6	

Upon

Upon this view, the widths capable of being allowed are fo much beyond what is abfolutely neceffary, as to leave a confiderable latitude of choice.* The partitions may accordingly be made more or befs thick, according to the nature of the materials. When the Infpector's paffage, having gained the region of the Y ands, affumes the name of the Covered Way, the partitions which bound it will naturally sequice the fixength and thicknefs of a wall: while the prifoners' paffages, having no longer any part of the building to bound them, will require each of them a wall on purpofe, as will be feen under the head of Outlets.

To give the Infpector his poffible view of the prifoners as they pais, there must of courfe be *fightboles*. They may be closed with glaffes. They ought to be conical: narrower on the Infpector's fide than on the prifoners' fide. Though these holes should on the different fides be on the fame level, they will not yield to the eye of the prifoner, the thorough light: for they are confiderably above his eye, and no line drawn towards

• If they were not, the Arch thus allotted to receive the line of communication might be made wider than the reft, upon the condition of giving the fame extra width to that whole pile of Arches all the way up.

§ 16. Communications-Emit into the Yards. 123 .

his eye from any hole on the one fide, would pais through any hole on the other: another advantage in finking the floor of the prifoners' paffage below the level of the Infpector's paffage. The wall of this paffage, in the fame manner as those of the Infpection-Gallery of which it is the continuance, fhould for the fame reason be painted black: those of the prifoners' paffages, for the opposite reason, kept as white and as gloffy as possible.

The leaft convenient part of the whole is the Inspector's-drop.*

But out of this very inconvenience I extract a fuperior advantage. The defcent is by a fort of ladder, deviating fo little from the perpendicular as to oblige a man, in order to find footing as he goes down, to turn his face to inflead of from the fteps: in fo doing he gets, and is obliged to get, a view of the Diametrical Paffage and the Warehoufe on each fide; fuch as it would have been difficult to have given him by any other means. A rope or bar to hold by on each fide, faves him from all danger,

^{*} Two footonly in width to 3.1. foot 7 inches defcent, leaves, at the large allowance of nearly one foot for each flep, little more than two inches projection of each flep beyond the one above itand

and even from all inconvenience beyond that of being obliged to turn himfelf half round.

A few inches below the level of the cieling of the Diametrical Paffage, is a *fight-hole* in the partition that forms a back to the fteps: through this, as he defcends with his face to the ladder, he gains a full view of that paffage: and on each hand another fight-hole, through which he gains a view equally full, through correspondent apertures, of the infide of the Warehouse on each fide.* By this means the labour of the prisoners may be made use of with the less scruple in all those stations, without the necessity of stationing along with them in cach place an Inspector on purpose, and yet without departing in this, any more than any other instance, from the principle of omnipresence.

As to the *relative widtb* to be given to this line of communication in its different parts, it admitts of confiderable latitude. The most natural course is to give it the fame width throughout. In its whole width, whatever that be, it blocks up, not only the whole of the opposite Cell of the first story

• The Warehoustes are laid out as far as convenience admitts in fuch a manner as to favour this view, upon the radial principle, as explained under the head of *Outlets*.

of Cells, but even a part of the height of the fecond ftory: filling up the place of the Cell-Gallery in both inftances. To give a passage round from the Cell-Gallery on one fide to the Cell-Gallery on the other, requires fome little contrivances, with relation to which it is not neceffary to be either very particular or very determinate. In the upper one of the two ftories the obstruction may be obviated, partly by lowering the cieling of the line of communication in that fpot, partly by giving a ftep or two from the Cell-Gallery, on each fide, to carry the paffenger in that fpot acrofs and over the obstruction : in the lower one of the two stories, by cutting out of the Cell, all round the obstruction, a space sufficient to make a passage of equal width with the Cell-Gallery: viz. four foot.

It is fcarce neceffary to obferve, that in order to maintain in this part the limitation fet to the Prifoners' path, and to prevent them from ftraggling into the Intermediate Area: or clambering up the line of communication, fo as to get at top of the Infpection-Gallery, or force their way in at the windows, the grating of the Annular Grated Paffage must in its form be governed by the configuration of the parts in question, and apply itfelf to them with

with particular care: and where any part of the line of communication is within reach of the prifoners, either walking in their paffage or abiding in their Cells, it fhould be of materials equally impregnable.

EXTERIOR

§ 17. Exterior Annular-Well,

§ 17. EXTERIOR ANNULAR-WELL.*

A LL round the polygonal part of the building, runs an Annular trench, which may be called the Exterior Annular Well, and its floor the Exterior Annular Area. In width I make it 12 foot: lefs than that not being fufficient to afford length enough to the line of communication in that part between the infide of the building and the Lookout in the Yards.⁺ The floor, for the fake of carrying off the water, is 8 inches lower than the floor of the Prifoners' paffage through the building

* This Well, except in its wiath, is but little different from the funken Wells or Areas which are fo common in the front of the London houfes.

+ See § Outlets. It might even be wider without inconvenience, and without any objection but the extra expense, which is only that of digging and paving. This degree of width, it is true, is not abfolutely neceffary any where elfe than clofe to the line of communication, to afford room for it to rife by a fraircafe to a level with the ground. But on account of light and air, it were better not to narrow the Area any where elfe.

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128 § 17. Exterior_Annular-Well.

which, as mentioned in fpeaking of the Exit, is itfelf 10 inches below that of the *Interior* Annular Well.*

It is bounded all round by a wall, which after ferving for the mere fupport of the earth from the area below to the furface of the ground above, is crowned by a parapet, reaching about 4 foot above that furface. This 4 foot added to the $7\frac{1}{2}$ foot and the $1\frac{1}{2}$ foot, *i. e.* to the 9 foot, makes 13 foot, the height which a prifoner who had let himfelf down into the Well would have to climb up before he could gain the Yards.

It is filled up and cut through in one part only, viz. at and by the line of communication above mentioned, running in the fame direction with the Diametrical Paffage.

The uses of it are as follow.

1. To give light and air to the funken flory under the Cells.

To prevent prifoners from escaping, upon the fupposition of their having let themselves down from the windows. It answers in this point of view the purpose of a ditch in fortification on the

• Total 18 inches lower than the Interior-Well. It may be brought to this depth from 12 inches by a gentle flope.

outfide

§ 17. Exterior Annular-Well. 129

outfide of the building, in the fame manner as the Intermediate Well that runs parallel to it in the infide.

3. To reduce the afcent which the Chapel Vifitors have to perform in order to gain the Chapel, and to afford a place for a Kitchen and other fuch offices to the Governor's houfe, without facrificing a ground-floor to that purpofe, and lodging him and his family at an inconvenient height.

4. To afford all round a commodious place forcellaring, capable of being enlarged indefinitely as occafion may arife.

Were there no fuch trench cut on the outlide, what would be the confequence ?—Either

1. The building remaining in all other particulars the fame, the ground must be brought close to it all round : or,

2. The flory under the Cells muft be omitted altogether, as well in the Cellular part as in the Infpection Tower: or,

3. That ftory must be raifed above ground, and the whole building made fo much higher.

In all three cafes, the 2d and 4th of the above advantages would be loft. A prifoner who had let himfelf down from any of the windows would find nothing capable of preventing him from going on: to the exterior wall: the convenience of cellaring

PART I. K.

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would

130 § 17. Exterior Annular-Well.

would be loft : and, the floor of the loweft flory of Cells being even with the ground, there would be nothing to hinder the prifoners in the Yards from holding promifcuous converse with the prifoners on that flory of the Cells.

In the first case too, the space under the Cells would be reduced to the condition of mere cellaring: not fit for any perfon to abide in, or pay frequent visits to, on account of the absolute want of free air: debarred in a great degree from the light, of which the Intermediate Well would at that depth afford but a very fcanty measure. The Warehousses under the Lodge would likewise suffer in point of ventilation, by being deprived of the draught which might be occasionally made by throwing open the windows of the rooms under the Cells, at the same time with the doors opening from them into the Intermediate Area.

In the fecond cafe there would be no place for lighting fires under the Cells: no place for Warehoufes any where: no means of conveying the Prifoners into the Yards, without giving them the faculty of promifcuous intercourfe, by carrying them in their paffage to and from their Staircafes abreaft of every Cell in the lowermoft flory of Cells. There would be no Diametrical Paffage:

no

§ 17. Exterior Annular-Well. 131

no means of conveying bulky articles into the Cells and Store-rooms over head, through the Intermediate Area: and that moft indifpenfible of all apartments, that vital part of the whole eftablishment, the Inspector's Lodge, would be cut to pieces and deftroyed.

In the third cafe, which is the leaft unfavourable one, the fecond and fourth, of the above advantages, as already mentioned, would be facrificed, as alfo the third: 8 foot would be added to an afcent already greater than could be wifhed: and no advantage worth mentioning would be gained*

* The quantity of building would be the fame: and the faving of the fmall expence of digging would be at leaft counterbalanced by the additional expence of fcaffolding and workmen's lofs of time in afcending and defcending. The only faving would be that of the funk wall of 9 foot high for the fupport of the ground: a purpole for which the flightest thickness of walling would be fufficient.

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§ 18. Windows.

§ 18. WINDOWS

Reaching low and Glazed; inftead of high up and Open.

BEING informed that in a building of this height, and confequently of this thicknefs, glafs would not coft more than wall, my inftructions to the Architect were, Give me as much Window as poffible: provided they are not brought down fo low as to render it too cold. In confequence, I have two Windows in each Cell: each 4 foot wide and 5 foot high.

It was Mr. Howard that first conceived the prevailing antipathy to glass: it admitts prospect and it excludes air. Prospects feduce the indolent from their work: air is neceffary to life. On any other than the Panopticon plan the antipathy may have fome reason on its fide: on this plan it would have none. Blinds there are of different forts which would admitt air, without admitting prospect: Glazed fashes when open will admitt air. But blinds, as soon as the Inspector's back was turned, would be put asside or destroyed: and windows would be shut: for the most ignorant feel the cold-

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mefs of freih air: and the learned only understand the necessity of it to health and life.---True: but in a Panopticon the Infpector's back is never turned. In this point, as in others, who will offend where concealment is imposfible?

In Mr. Howard's plan observe what is paid for fhutting out prospects. The tall must be kept from idling as well as the short: and a tall man may make himself still taller by mounting on his bed or standing on tiptoe. Therefore windows must not begin lower than seven foot from the short. "But above this seven foot there must be a moderate space for a hole in the wall called a Window : partly for this reason, and partly to make sure of sufficient hight of ceiling, a Cell must be at least ten soot high in the infide. Such accordingly is the construction, and such the height of the Cells at Wymondham.*

To what climate is this fuited? To the Eaft or Weft-Indies: perhaps to fome part of Italy: certainly not to any part of our three kingdoms. To what employments? To laborious employments, to employments that are to be carried on out of doors: to few that in fuch a place can be carried on within doors: to few indeed that can be termed fedentary

* See Sir T. Beevor's Letters in Annual Register for 1786. Letter III.

ones. What weaver, what fpinner, what fhoemaker, what taylor, what coach-maker, can work with drenched or frozen hands?

To mitigate the cold, and to exclude fnow and rain, Mr. Howard allows a wooden fhutter. But to do this fuch a fhutter muft exclude light. What is the wretched folitary to do *then*? creep into his bed, or fit down and pine in forced and ufelefs indolence.

Mr. Howard with all this allows no firing. One would think from him there were no winter.

The thicker walls are, and the higher above the floor, holes in the wall inftead of Windows are, the better they ferve to keep out cold and rain: hence another reafon for piling bricks upon bricks, and giving rooms in prifons the height of those in palaces.

In rooms that have no light that is not three or four feet above the eye, weaving can fcarcely be carried on: from fuch rooms that profitable employment, that quiet employment, in other refpects fo well fuited to an eftablifhment of this kind, is therefore in all its infinity of branches peremptorily excluded. For this therefore among other reafons there must be other places for working in. Accordingly at Wymondham for 50 foot 4 by 14:8

of

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of Cells, you have on one part 20: 6 by 10 foot of work-room,* and in another part a work-room of the fame dimensions for only 29 foot 4 by 14 foot 8 of Cells.†

At Wymondham thefe holes are guarded cach of them infide and out by a double grating: a fingle one under the eye of an Infpector is enough for me. Were a prifoner to elude this eye, (though how he is even by night to elude the eye of a watchman, conftantly patrolling, I do not know) and get through this grating, (though how a man is to force iron bars without tools I am equally at a lofs to conceive) where will he find himfelf ?--- In the Yards?----No: but in a Well, in which he has a wall of 13 foot high to climb, as we shall see, ere he can reach the Yards. And were he over this wall where would he be then? In a fpace inclosed by another high wall, with three centinels in an inclosed walk, patrolling on the other fide.

So far from there being any need of double gratings, the fingle grating need not have crofs bars. It is not neceffary it fhould be capable of refifting either long continued attempts, or violent ones.[‡]

* Viz. a little lefs than one third addition.

† Viz. a little lefs than one half of addition.

There would be an advantage in placing it as near to the outlide of the wall, and by that means as far from the infide of K_2 the

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§ 18. Windows.

If any where in any particular pile of Cells any unguarded circumftance in the conftruction afforded the means of defcent otherwife than by climbing down inftead of dropping, advantage could not be taken of the weaknefs from any other pile in the circuit: in the polygonal form the pro-

the Cell, as it can be confiftently with ftrength: that is, fo as not to be liable to be thrown down by a pufh, together with the brickwork or ftone in which it is bedded. Why? Becaufe by this means fo much room may be gained to the Cells: the pier under each window forming a kind of dreffer anfwering the purpofe of a table.

Above the third flory of Cells bars can hardly be deemed neceffary. The window of the loweft being $1 c \frac{1}{4}$ above the funken External Area, the following table, flows the heights from which a fugitive would have to drop from the respective windows upon a flone pavement: it being taken for granted that the Cell affords neither a rope, nor materials of which a rope[could be made in the compass of a night, by perfons exposed occasionally at leaft, if not constantly, to the eyes of a patrolling watchmian.

			f. in.
	Lower fory		10 6
	Second ftory		19 6
•	Third ftory		28 6
	Fourth ftory	-	37 6
	Fifth ftory		37 6 46 - 6
	Sixth ftory		55 6

jecting

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jecting angles rendering it impossible to climb horizontally on the outfide, from a window of any Cell to any window of the Cell contiguous on either fide.

If fastened up in two places on each fide, and in the middle at top and bottom, the gratings may want about 7 inches of reaching the brick-work at bottom, and about ten inches of reaching that at top: efpecially if they terminate at top and bottom, not in an horizontal bar, but in a row of perpendicular fpikes: by this means little more than 3[‡] foot in height of grating will ferve for a Window 5 feet in height : and in width little more than 2[‡] foot of grating will ferve for 4 foot.

1

Among the offenders who are liable to be configned to these scenes of punishment, it is but too common to see boys of little more than ten years of age. A thin person, boy or man, can generally get his body through, wherever he can pass his head: that is, if not hindered by the breadth of his body, he will not be by the thickness. But a person cannot press against the point of a spike as he could against a bar. From these data gratings might be formed requiring a much less quantity of materials than what is commonly employed, yet of **sufficient** strength for the present purpose.

§ 19. MATERIAL

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§ 19. Materials.

§ 19. MATERIALS

Arched Work-Much Iron-Plaister

Floors.

THE peculiarities of the prefent plan are not confined to the head of conftruction: they extend in fome degree to the *materials*. The abundant use made of *iron* will hardly fail to be observed.

In preferring brick or ftone-work to wood, and in confequence arches to other partitions, it does no more than follow the plans already in vogue. Such a mode of conftruction is more particularly neceffary in a Panopticon than in a building of perhaps any other form. The circumftance that renders it fo peculiarly favourable to ventilation, renders it cf courfe equally exposed, if made of combuftible materials, to accidents from fire. Were a fire to begin any where, especially towards the center, it would fpread all round, the wind would pour in from all quarters, the whole would be prefently in a blaze,

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a blaze: and the prifoners, being locked up in their Cells, and even were there Cells open, deprived of all exit except through one or two narrow paffages, would be burnt or fuffocated before any affiftance could be applied.

This at leaft would be the cafe were it not for the care taken to keep accumulated a large fund of water in the ciftern at the top of the building, ready to be poured in whenever and wherever there may be occasion for it. But notwithstanding this affistance, and the great fecurity against all such accidents afforded by the circumstance of unremitted inspection, as a building of this fort is designed for duration, and the difference in point of expence need not be considerable, it seems best to be on the fafe fide.*

The great use here proposed to be made of iron has been made on different occasions with a view

^{*} In a Panopticon which required apartments of greater width than could conveniently be given to arches, fome of the other modes of fecuring buildings against fire might be adopted: fuch as that of ftopping the draught of air by iron plates, upon Mr. Hartley's plan: or by fimple plaistering, upon Earl Stanhope's. Such superior width might be neceffary in fome manufactories: nor would it be incongruous to the object of the inflitution, where fcclusion was out of the question, as in free Manufactories and Poor-houses.

to different advantages. Sometimes to admitt air, fometimes to fave room, fometimes for the fake of firength. In all inftances it has the advantage of being peculiarly impregnable to putrid contagion: even plaifter, brick and ftone not being in this refpect altogether above reproach. Hence the great firefs laid on frequent white-washing, wherever any of the three latter materials are employed.

It is partly on account of the admiffion it gives to air that I prefer it for both the Prifoners' Staircafes, and for all their Galleries. In arched Galleries of brick or ftone, befides that they would take up room, the air might be apt to ftagnate. Subfituting open-work to fuch clote materials adds in effect fo much in width to the Annular-Well. The interflices between the bars inflead of forming an obftruction to a current of air, ferve rather to accelerate it.

It was the confideration of the little room taken up by this material that fuggefted it to me as peculiarly well adapted to the purpole of affording fupports to the Chapel. Brick pillars, of the thicknefs neceffary to fupport fo lofty a building, would afford a very material obftruction to the voice in its paffage from the Minister to the Prifoners, when ftationed in their Cells, or in the Galleries before their

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their Cells. It is on the fame confideration likewife that I propole to make confiderable use of it in the confiruction of the Infpection-Galleries. It is to obtain both these advantages that I make use of no other material for one entire boundary (viz. the interior one opposite the windows) of every Cell.

To obtain that fort of strength which confists in inflexibility, with lefs unweildinefs and at a lefs expence of materials, it occurred to me to make the pillars hollow. Being of iron, they may thus be made not only to take up beyond comparison lefs room, but even to posses greater ftrength, even when hollowed to fuch a degree as not to exceed brick or ftone in weight. It occurred to me that iron was cast in large masses to ferve for water-pipes. Upon enquiry at a great foundery where it is caft for fuch purposes, I learnt that in that manufactory it could be caft hollow for a length of 12 foot, but no more. Upon confulting with my professional advifer, I was informed that that length could be made to fuffice: and it occurred to him that of the eight fupports which would be a fufficient number for fuch a building, fome might be made to answer the purpole of water-pipes for conveying the water from the roof: and to me that others of them might be made to ferve for chimneys: articles for which े **ग**ी।

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it might otherwife be not altogether eafy in a building of fo peculiar a construction to find a convenient place.

In point of economy I hope to find this uleful material not more expensive, but rather less fo than the quantity of stone or brick-work that would be requisite to answer the same purpose.* Since castiron, and in most instances, even that not of the finest quality, would answer as well as hammered with half the expense.

It is at the recommendation of the fame intelligent artift that I adopt those called flucco or *plaif*ter floors, in preference to any other: and this for a variety of reasons.

1. They are incombustible. In this respect they have the advantage of wooden floors.

2 They take up very little room. The thicknefs of $1\frac{1}{2}$ inch over the brick-work at the crown is fufficient. In this point they have the advantage over all other floors, and most of all over wood, which befides boards require joists to lay them on.

3. They are uniform without crevices or interflices. In this refpect they have also the advan-

• In Hughes's Riding Amphitheatie, near London, the fupports, I am told, are of iron filvered.

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tage over all other floors: in the higheft degree over brick, then over wood, and even over ftone. The inconvenience of crevices and interflices, as well remarked by Mr. Howard, is to harbour dirt, and occafionally putrefcent matter, capable of fouling the air, and affording ill fcents.

4. They are cheap. When thus thinly laid, much cheaper than wood, or ftone, or even than any choice kind of brick, fuch as clinkers: and full as cheap as any tiling that would be proper for the purpofe.

5. They are, it is true, liable to crack: effecially on the first fettling of the building. On the other hand, if a crack takes place, they are eafily and effectually repaired.

Mr. Howard lays great ftrefs on the unwholefomenefs of fuch floors, as by their roughnefs, fuch as unplained boards, or by numerous and wide ininterflices, are apt to harbour putrefcent matter: but I know not that he any where recommends plaifter floors, which are freer than any ordinary floors from that inconvenience.

§ 20. OUTLETS.

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§ 20. Outlets.

§ 20. OUTLETS,

Including Airing-Yards.

A RE Airing-Yards to be looked upon as a neceffary appendage to the building?—If fo, what extent ought to be given to them ?—Ought any and what divisions to be made in them correfponding to fo many divisions among the prisoners? In what manner may the influence of the infpection-principle be extended to them to the beft advantage?—The answers to these questions will depend partly upon the general plan of management in view, partly upon local circumstances.

Of these points the first and third are confidered under the head of management :* and the refult is, that Airing-Yards to be used on working-days are not effential to the establishment: but that for Sunday's use they would be at least convenient : that if both fexes are admitted, one division, and confequently two separate yards are indispensable : but that, as between prisoners of the same fex, the

• See the fections on Employment, Airing, and Schooling.

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advantage to be gained by any further divition feems hardly decided enough to warrant the expence.*

Whatever be the extent of the Airing-ground, and whatever the number of divisions made in it, two erections must at any rate be made in it, in order to extend to these exterior appendages the allvivifying influence of the commanding principle: 1. A Look-out or Exterior Inspection-Lodge: 2. A line of communication for Prisoners as well as Inspectors, between this Look-out and the building. Let the Look-out then be confidered as occupying the center of a circle : of this circle the line of communication forms one radius : from the fame center may be projected as co-radii walls in any number corresponding to the number of divisions pitched upon.* See plate III.

* The numerous Yards in Plate III. are given only by way of illuftration, and to fhew upon what principles the topographical divifion, were it to be judged neceffary, might be performed to most advantage.

• In the magazine of expedients the most fimple is feldom that which first prefents itfelf to our fearch. In the first hasty defign, as fiketched out in the Letters, it was by a furrounding Gallery that the influence of the intp-ftion principle was to have been extended to uncovered Areas: and this Gallery was to have teen attach-PART 1. L ed

In fection 16 we left the line of communication at the fpot at which, having cleared the building, it cuts across the external Annular Area. But at this fpot it is confiderably below the level of the ground in the yards through which it leads. The furface of the ground I fuppofe exactly on a level with the floor of the lowermost story of Cells: which floor is 7: 6 above the level of the Intermediate Area. The floor of the prifoners' paffages, being 10 inches below the level of that Area, has 8: 4 to rife before it comes to a level with the furface of the ground. That of the Infpector's paffage, being 5 inches above the level of the fame Area, has confequently but 7: 1 to rife before it comes to a level with the ground. But in the straits under the Arch we gave the Infpector the advantage in point of ground over the Prifoners to the amount of 1:3: and for this advantage there is the fame occasion in one part of the line of com-

ed to the furrounding wall. The advantages of centrality were thus thrown away without neceffi y, and without any advantage in return. In point of expence the difadvantage might be more, and could not be lefs, than in the proportion of a circumference to a femi-diameter—about fix to one : and the Galleries would have diminifhed in effect, to the amount of their height, the height of the wall to which they were attached.

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munication as in another. Adding therefore this rife to that of 7 . I which the floor of the Infpector's paffage has to make in order to reach the level of the ground, we have 8 : 4, which is the fame rife as that given to the Prifoners' paffages. In this way the two floors preferve their parallelism during the whole of their course.

The particulars of this courfe may be thus made out-

Prisoners' passage on each side-Lengths-Exterior landing-place from the outfide of the wall of the building to the commencement of the flight of fleps which f. in. may be called the Prisoners' Rising-stairs. 2 0 Prisoners' emerging or rising stairs, from the exterior landing-place to the Prisoners' Bridge. 8 4 Prifoners' Bridge from the Prifoners' rifing fteps to the Prifoners'-Lanes, running parallel to the Infpector's Covered-way, on the furface of the ground through the yards. — 1 8 Underneath this flight of steps there is ample room left in the exterior Annular Area as well for paffing as for conveying goods. Before it has advanced in length to within four feet of the wall bounding L 2

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§ 20. Outlets.

bounding the External Area, it is more than 6 foot above the level of that Area in that part: and at the furrounding wall, 9 foot.*

Inspector's Passage between the Prisoners' passages -----Lengths---

The fame as above : the difference, which is only in point of level, being the fame throughout, except that in this paffage the flight of fteps gaining the level to which they lead a little earlier than in the Prifoners' paffage, the In/pector's-Bridge \uparrow is a few inches longer than that of the Prifoners.

As to the floor of the Prifoners' Rifing-flairs, iron feems preferable, partly for the reafons which plead in general in favour of that material, partly on account of the fmall degree of thicknefs it requires. A wooden floor, or a brick floor fupported upon an arch, might reduce the height above the floor of the Exterior Well to fuch a degree, as to make it neceffary either to fuck the floor of the Well in that part ftill more, or to Harreafe the width.[‡]

• This comes from the pavement of the Exterior Area being funk in that part x : 6 below the level of the Internal.

† To diffinguish it from that within the building, I call this the Inspector's Outer Bridge.

[‡] The roof of the line of communication, as it emerges from the building, affords a landing place to the windows of the Cells immediately above, by which the prifoners, could they get out of the

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From their emerfion out of the building the three paffages fhould be covered through the whole length of their courfe acrofs the External Area: that of the Infpector, for the fake of obfcurity, as well as for the fake of protection in bad weather: the two Prifoners' paffages on each fide, partly for the latter reafon, but principally to cut off converfe with the Cells immediately above: for which reafon they muft alfo have a back reaching up all the way to the roof, fo as to form a compleat cafe.

the windows, might at night-time find their way into the Yards, and be fo far on their way to an efcape. To obvia e this danger, it is evident that the gratings to thefe windows ought to be conflructed with a degree of cau ion, which would not be equally neweffary in any other part of the circuit.

It would be tedious to particularize in this manner every little weak fpot which the details of fuch a building may difcole. Wherever they prefent themfelves, the weaknefs will not be more obvious than the means of remedying it.

The Cell immediately over the Straits lafes, it will be obferved, a confiderable fhare of its light, partly by means of the Infpector's Bridge within fide the building, partly by means of the whole line of communication on the outfide. Many employments might be mentioned for which the degree of light remaining after these defalcations, would probably be infufficient: but as employments are not wanting for which it would certainly be fufficient, the deficiency affords no reason for confidering this Cell as lost to the purpose of habitation.

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When

When the Prifoners have got the length of the Lanes, or of the yards on each fide, that is at the leaft near 13 foot diftance from the building, the interception of converfe muft, as it fafely may, be trufted to the expedients employed for preventing those in the Cells from looking out of their windows.

When the Prifoners are a few feet advanced beyond the External Area, they come to a *Door*, which lets out upon the open ground fuch of them as belong to the two yards immediately contiguous on each fide: fince it would be ufelefs to carry them on to the Look-out, only to return them from thence into those yards. If there are no more divisions, no more yards, than these two, here the Prisoners' Lanes terminate : if there are other yards, the lanes lead on till they terminate in the common Central Yard encompassing the Look-out. The Inspector at any rate has his door corresponding in fituation to those just mentioned.

The Central-yard is a circular or rather Annular Yard, encompaffing the Look-out. It ferves for the difcharge of the different claffes of perfons into their refpective yards. That the individuals thus meant to be kept feparate may not have it in their power to ftraggle into the Central Yard and there meet,

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meet, the entrances into their feveral yards are clofed by gates or doors. Left by a mutual approach towards their refpective doors, they fhould obtain an opportunity of converfe, the doors are placed, not in the circumference where the walls terminate, but in a fet of fhort Partition-walls joining the refpective walls at a little diftance from the ends: the intermediate portion anfwering the purpofes of the Protracted Partitions fpoken of in Letter II. in the firft rough fketch of the building. A wall, carried through the Central Y ard fo as to join the Look-out, perfects the feparation between the male and female fide.*

Near to the lateral doors opening from the Covered way on each fide, will be the fituations for the *Airing-Wheels*: † the numbers and exact fituations of which will depend on local circumftances, and on the details of the plan of management purfued.

Hereabouts too might be the *Temperate Baths*, or *Bathing Bafons*, in which Prifoners might at flated hours be obliged to wash themselves. By means of a flight awning these baths might easily be concealed from the view of the Prifoners in the build-

* N. B. This protracted feparation-wall is not reprefented in the Draught.

> • See the fection on Airing. L 4

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ing, while they were fully exposed to the observation of an Inspector, (or according to the fex an Inspectrix) from the Look-out.

Made long rather than circular, they would be the better adapted to the purpole of enforcing fuch a continuance in this flate of discipline as should be deemed expedient. The Prisoner being required to pass through from one end to the other, the number of traverses would thus afford as exact a measure as could be wished for, of the degree of discipline to which it were proposed to subject him.

Of the conftruction of the Look-out it feems hardly neceffary to attempt a minute defeription. It fhould be polygonal, that form being cheaper than the circular. It might be an octagon: or, were the number of the Airing-yards definitively fixed, the number of its fides might be the fame with that of the Yards, the walls of those divisions correfponding to the angles of the building. The fitteft form and fize for it would vary according to local circumfunces and the plan of management. The precautions relative to the thorough light need not here be fo ftrict as in the prifon, the greater diftance rendering the figure when obscured by blinds more difficultly differnible: and the obscurity would

be

be farther favoured by heightening the elevation. Experiment would eafily fhow what fort and thicknefs of blind was best adapted to the purpose. If a frict infpection be required, the Infpection-Lantern already defcribed would furnish a proper model: if a loofer were deemed fufficient, a room employed as a work-shop in some sedentary trade, fuch as that of a taylor or fhoe-maker, might anfwer the purpofe. In the capacity of apprentices or journeymen, he might have a few of the most orderly and truft worthy among the Prifoners. On working days, according to the plan of management here proposed, he would have nobody to infpect but fuch of the Prifoners as were occupied for the time being in walking in the wheels: at that time he would of course front that way as he fat, and a cafual glance ftolen now and then from his work would answer every purpose. It is on Sundays, and on Sundays alone that the Prifoners in general would be at certain hours in the yards : and during those periods he might give his whole time and attention to the business of inspection, as it would then be is only occupation.

A male and female Infpector might here also be stationed under one roof: whose inspection might, by the means explained in another place,

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be confined to their refpective divisions. This junction and feparation would of course be neceffary, if a bath for females were placed near the Walking-wheel on that fide.

As to the degree of fpacioufnefs to be given to the Yards—in a general fketch which has no individual object in view, to fpecify demensions will be feen to be impossible: principles with illustrations are the utmost that can be expected.

The objects to be attended to are, on the one fide, room and ventilation: on the other facility of inspection, and cheapnels.

To estimate what may be neceffary for room, it would be necessary first to settle the operations that are to be carried on in the Yards, and the articles that are to be placed in them: Such are

1. Airing-wheels: enough for fupplying water to the building. See fection on *Airing*.

2. Additional number of Airing-wheels: in the whole, a wheel (fay) to every 18 perfons, or a proportionable number of double, treble, or quadruple wheels. I call the wheel a fingle, double, treble one, &c. with reference to the number of perfons that are to be fet to walk in it at once.

3. Machines

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3. Machines to be kept in motion by fuch fupernumerary Airing-wheels.

4. Bathing-bafons, one or two according to the fexes.

5. Open fchools, for Sunday's fchooling. See the fection on *Schooling*.

6. Walking or marching-parade for Sunday's exercife.

As to ventilation, though a diftant object, it is one that will hardly require a diftinct provision. A fpace that affords room enough for the walkingparade can fcarcely be deficient in point of airinefs.

In ventilation much depends upon the form of the ground. A declivity is in this point of view preferable by far to a dead flat. Place the building upon a rifing ground, the wall though a high one may be but little or not at all higher than the furface of the ground is for fome diftance round the building. So far as this is the cafe, fo far the walls afford no obftruction at all to the current of air.

But even in a dead flat, there feems little neceffity for beftowing any expence, in giving on this fcore any addition to the quantity of fpace abfolutely neceffary for the marching exercife above alluded

alluded to. Noxious trades out of the question, the only imaginable fources of contamination to which the air is exposed are putridity and respiration. Against the former, fufficient fecurity may be afforded by the discipline of the prison :--- no hogs; no poultry; no dunghill; no open drain; no ftagnant water. As to mere refpiration, it can fcarcely be confidered as capable of producing the effect to a degree worth notice, in a place ever fo little wider than a water-well, if open to the fky.

As to facility of infpection, it is obvious that the longer you make your Airing-yard, the lefs diftinct the view which the Infpector will have of a Prifoner at the further end of it. But the confideration of the expence will be fufficient to put a ftop to the extension of this space, long enough before it has acquired length fufficient to prejudice the view.

In speaking of the expence, I do not mean that of the ground : for that, every where but in a town, will be of little moment: but the expence of the walls. I fpeak not merely of the furrounding wall: for, whatever be the height of that wall, the feparation-walls, if there are any, cannot, as we shall see, have less. For the furrounding wall, according to the common plans at least, no ordinary height : '

height will fuffice. But, by doubling the height of your wall, you much more than double the expence: fince if you would have it fland, you must give it a proportionable increase of thickness.

The height of the feparation-walls I have faid, muft not be lefs than that of the furrounding-wall why? becaufe if the former join on to the latter, they muft be of the fame height, or whatever height is given to the furrounding wall is fo much thrown away. The attempt, if any, will of courfe be made at that part where the wall is loweft, which will ferve as a ftep to any part which rifes above it. Let a wall of 12 foot be joined by another of 6 foot: what is the obftacle to be furmounted? Not one wall of 12 foot, but two walls of 6 foot each. In fortification, the ftrength of the whole is to be computed, not from the ftrength of the ftrongeft part, but from that of the weakeft.

That the feparation-walls flould join the furrounding-wall, is not indeed abfolutely neceffary : but whether the difcontinuance could in any inflance be made productive of any faving upon the whole, feems rather queftionable. They may indeed be left flort of it to a certain diffance : the gap being fupplied by a ditch : to which the perfons meant to

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be feparated on each fide, may be prevented from approaching near enough for the purpose of converfe, by a pallifade, which may be a very flight one, being intended rather to mark transgreffion than to prevent it. In the day time there will be no poffibility of approaching the ditch without detection, fince it will be full in view : at night there will be no motive, as there will be no perfons on the other fide to hold converse with-no Prisoners in the yards. The ditch itfelf need not be continued far on each fide of the wall : but the pallifade must be continued all along: for if it were to terminate any where it would be useles, and if it were to join the wall any where it would take fo much from the height. But the pallifade however flight would coft fomething: and, what is more material, the fpace between that and the wall would be fo much facrificed : and the greater the space, the more extensive, and confequently more expensive, must be the wall. If therefore the furrounding wall should not rife much above the height, which for the purpose of preventing converse it would be neceffary to give to the feparation-walls, reducing the height of the latter by the help of the above expedient would not be worth the while.

But

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But although no faving fhould be to be made in the height of the feparation-walls, this is not the cafe with regard to fuch part of the general furrounding wall as is not acceffible to the prifoners. What part that may be will be immediately conceived by turning to the Draught.—See Plate III. In a line with the Projecting front, continue the wall of the building or each fide till it meets the two lateral of the four furrounding walls. To this wall, and to every wall that is behind it, muft be given the fame extra height, whatever that be. But, to whatever walling there is *before* it, no greater height need be given, than if there were no fuch thing as a prifon in the cafe.

Thus much, fuppoling the neceffity of high walls and multiplied divisions. But, if my ideas be juft, both those articles of expence may be faved: the former, by the mechanical regularity of the airing difetpline:—See the fection on *Airing*. the other, by the mode of guarding.—See the next fection.*

• It may be thought, that the Walls here fpoken of as not requiring any extra height might be omitted altogether. But, befides that they will be convenient for the inclosing of offices and officer's gardens, they are effential to the p'an of guarding. For on confidering the centinel's paths, it will be eafily from that it is

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The lefs the space is between the Look-out and that one of the four furrounding walls that runs at right angles to the direction of the Covered way, the nearer the two radii drawn towards the ends of such a wall will of course approach to paralleliss. Direct them fo as to terminate, not in the opposite wall, but in the two lateral walls that join it at right angles, and you have a long space, which without departing from the inspection principle

is necessary they should be regular, and that one of them should pais by the Approach. Add to this that the contrivance of the Approach supposes a wall all round, to serve as a barrier against a hostile mob.

One Wall indeed, which really is not only unneceffary but prejudicial, may be difcovered on the Draught: into which it was inferted without fpecial influctions, as a thing of course, and fuffered to continue through inadvertence.

It is that which runs parallel to, and between, the wall through which the entrance is cut, and that which forms on each fide a continuation of the Projecting Front. A fence in that pirt is indeed neceflary: but influend of a clofe wall it ought to be an open pallifade.

The former, in contradifinction to the latter, weakens the command of the building over the fpace inclosed, and that as well in a military fenfe, as in point of infpective force. Suppose $*\sim$ mob to have maftered the wall on either fide the entrance, an open pallifade exposes them to the ground floor of the building, whereas a close wall covers them.

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might, if the employment prefented any adequate advantage, be converted into a *Rope-yard*.

Why introduce here the mention of Rope-making? Is it that I myfelf have any predilection for that bufinefs? By no means: but others it feems have. My first care is on every occasion to point out that course which to me appears the best: my next is to make the beft of whatever may chance to be preferred by those whose province is to it choose. To a gentleman whofe information and advice upon this occasion particular attention appears to have been paid by a Committee of the Houfe of Commons,* to this gentleman it occurred that ropemaking was of all trades one of the best adapted to the economy of a Penitentiary-House. Of the many advantageous properties he attributes to it a confiderable number may, for ought I know, belong to it without difpute. But in one inftance at leaft, his zeal has got the better of his recollection. i In rope-making " no implement employed that can contribute to escapes?"-To a feaman a rope is itself a Staircafe. Will any charitable hand take charge of it on the other fide of the wall? over goes the rope one inftant-the next, over

• See Report of the Felon Committee printed in 1779.

PART I. M

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goes

goes the failor.* And can no other hand fupport itfelf by a rope ? Was La Tude a fearman ? Will the walls of a Penitentiary-House be like the walls of the Battile?—A vigorous arm will supply the place of practice. I speak but what I have seen.

Rope-making is perhaps of all trades known that which takes up the greatest space. Elsewhere it requires no walls: but here it must not only have walls, but those too of an extra height and thickness.

* Even without an affociate, a rope, by the help of a brickbat faftened to the end of it, will, I have been affured, carry a man over a wall.

my

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my razor can perform what in ancient lore stands recorded as a miracle for razors. I would provide part of my prifoners with this gentleman's ropes, I would arm another part with another gentleman's fledge-hammers, a third part with another gentleman's cast iron—a fourth with a fourth gentleman's faws, taking my chance for my felons ferving their keepers as the children of Israel ferved the Ammonites.—For what ?—For fecurity fake ?—No: but just as I would set up a fword-cutlery, or a gunmanufactory with a powder-mill attached to it; if any gentleman would shew me such a measure of extra-profit attached to those trades, as should more than compensate the extra-risk, and the extra-expence of guarding and infurance.

Protefting therefore against this of rope-making as one of the least eligible of trades for any other prifon, I would not, by any peremptory refolution, exclude even this from a Panopticon Penitentiary-House. Let Euristheus speak the word, and I will turn in serpents to my infant in its very cradle.—Why?—Is it that serpents are the best nurses?—No: but because my infant is an Hercules.

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Recapitu-

Recapitulation of the horizontal lengths of the feveral component parts of the line of communication between the lowermost Inspection-Gallery within the building and the Look-out in the Yards.

I. Inspector's Passage.

1. Infpector's Inner-Bridge (over the Inter-	0
mediate Area.)	8
2. Inspector's Drop (within the circle of the	
Grated Paffage.)	2
3. Infpector's Inner Landing-place (within the	
fame circle.) — —	2
4. Inspector's Straits (passage through the	
fubterraneous Arch under the Cells.)	17 :
5. Infpector's Outer-Landing-place, from the	
termination of the Arch to the commence-	
ment of the Rifing Stairs.	2 '
6. Infpector's Rifing-Stairs, from the exterior	
Annular Area to a little above the level of	
the ground.	8
7. Infpector's Outer-Bridge (over the remain-	
der of the above Area) about —	2
	4 I

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	-	Undeterminable de-
Q	Infpector's Covered-way	pending on the
		magnitude of the
9.	Steps up to the Look-out	establishment and
		other local cir-
		cumftances.

II. Prifoners' Paffages on each fide.

Ι.	Priloners'	Straits			17
2.	Prifoners'	Landing pla	ce		2
3.	Prifoners'	Rifing-Stairs	5	 	8
4.	Prifoners'	Bridge, abou	ite	 	2
				•	-
				:	29

5. Prifoners' Lanes JUndeterminable, for the fame. reafon.

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M'3 The

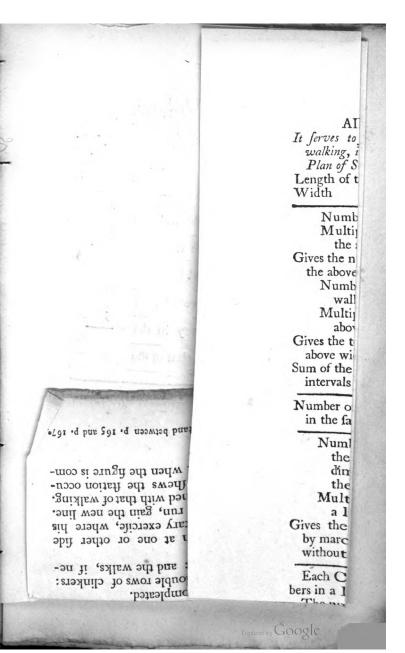
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§ 20. Outlets.

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This plan being defigned merely for illuftration, it was not thought worth while to beflow the pains that would have been neceffary to give it a thorough difcuffion, and clear it altogether from the imperfections that may at obferved in it. From this example it will be eafy to accommodate the line of march to the form of the ground: giving it the radial figure, and making the entrance from the Central Yard. The walks would in that cafe diverge from one another in pairs at the fartheft ex ! tremity, like fingers on a hand. But the greater the divergence, the more fpace will, it is evident, be confumed in wafte.

The wheels, which on fix days ferve for gain as well as air and exercife, would there be any objection to their ferving on the feventh for air and exercife without gain? If not, then even the walking-parade, with the expence of the walls with which it must be furrounded, might be ftruck out as fuperfluous.

The queftion would be particularly material in a town, where not only the expence of the walling might be grudged, but the ground itfelf might be unobtainable.

In fuch a fituation, if the wheel-exercise were thought improper for Sundays, even the rocf of the

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the building, might, if made flat on purpofe, be made to anfwer the purpofe of a marching parade : only in this cafe the fpace not being fufficient to air the whole number of prifoners at once, without breaking in upon the plan of feparation, the half only or the third part can partake of the exercife at a time.

The fame fituation might, with like management, be made to ferve likewife for the Schools, proposed to be held whenever weather will permitt, in the open air on Sundays. See the section on *Schooling*.

M4 § 21. APPROACH

§ 21. APPROACH AND FENCES.

I N the contrivance of the Fences I had of courfe two claffes of perfons in view: the prifoners within; and hoftile mobs, or fuch individuals as might be difpoled to form plans or join in plots for the efcape of prifoners without. To thefe were added, in the contrivance of the Approach, the fubordinate Keepers, as likewife, though with a different view, the Chapel Vifitors. While the government or corecion of the first three of thefe four defcriptions of perfons was to be provided for, the accommodation of the last, those ftill better than gratuitous Infpectors, who, instead of being paid for infpecting, may be content to pay for it, must not be neglected.

The Approach, I make one only: a walled avenue cut through and from the furrounding wall to the front of the building, thrown back purpofely to a certain diftance: fay, for example only, 240 foot: twice the diameter of the polygonal part of the building neglecting the Projecting Front. The aperture

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aperture thus made is closed by a fet of Gates : a Imall one clofe to the Porter's Lodge, for foot paffengers : next to that a larger one, for carriages to go in at, and beyond it one of the fame fize as the fecond, for carriages to return by. At the very entrance the avenue is contracted as much as it can be confiftently with the abovementioned purposes : it grows gradually wider and wider as it approaches the building : arrived at a diftance equal to the breadth of the Projecting front it ftops fhort. Conceive a square having this front for one of its fides. In the opposite fide, the walls that bound the avenue terminate. In the fame line terminate two walls or other fences, which iffuing at right angles from the front, bound the two remaining fides of the fquare. The avenue, though gradually expanded from the entrance tothe fpot where it falls into the fquare, wants oneach fide fome feet of occupying the whole width. That interval is filled up on each fide by a pair of gates, which, being of open work, afford to. the building access to and view of the spaces on each fide the avenue ; defigned partly and principally for containing offices, and affording fmall gardens to the officers. In the center of the fquare stands a Lamp-post, or fome fuch object, ferving as a direction to carriages in turning: and from this central

central mark to the pier between the two gates across the entrance, it might perhaps be found convenient at Chapel-times to keep a farained rope or chain, for the purpole of feparating the path of the returning from that of the approaching vehicles; thus obviating the confusion which without fuch precaution is apt to arife in a throng of carriages.

The public road runs, according to local circumflances, either in the fame direction with the avenue; or elfe at right angles to it, and parallel to the wall cut through to form the Approach. No public highway, either carriage road or foot-path, runs near to it in any other quarter.

Parallel to the Gates, and to the extent of the Gates, the road is bounded on the other fide by a wall, which may be called the *Protestion-Wall*: and behind it a branch of the road, which may be called the *Protestion Road*.

Why only one Approach to fo large a building?

1. For the fake of economy:------the more Approaches the more Porters.

2. For the fake of *fafe-cuftedy* and *fubordination*: the more exits the more places to watch, and the greater the danger of efcape. And were theremore exits than one, all would not be equally under

der the view of the Head-Governor. What if he and the next in authority under him, had each a feparate exit under his care?—The infpective force would be diminished by one half: on the one fide the fubordinate would be withdrawn from under the controul of his principal; on the other, the principal would lofe the affistance of the fubordinate.

2. Why throw the building back in this mannerand place it in a recefs, rather than close to the road, and flush with the furrounding wall?

For fecurity, and that in the first place against enterprizes from within. Suppose a Prisoner by permiffion, or by negligence, got out and landed at the front of the building: on this plan what chance has he gained of an opportunity of escape? He is inclosed in a defile; with the building at one end and the gates that open to it on the other: expofed on one fide to the whole view of the front, and: on the other to that of the Gate-keeper, without whole concurrence the gates can afford him no. exit: and the prifon habit betraying him to both. On the other hand, suppose a part of the building to have doors or windows opening to the highway : let a man but have got through any one of those apertures, he finds himfelf at large. What though, the part thus bordered by the road should be no-

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part of the place defigned for Prifoners, but only of the houfe or lodging of one of the officers, the Governor for example? Such places may not be always inacceffible to the Prifoners, at leaft to all of them. A Prifoner may be there by permiffion, engaged in fome domeftic employment: he may have ftepped in thither on fome pretence: he may have been let in on purpofe by the infidelity of fome fervant of the houfe. Should even the Prifoners be all of one fex, there may be fervants of the other. Of a prifon fo circumftanced, where is the part than can be fure of being always proof againft the united affaults of Cupid's arrows and Danae's golden fhower?

2. Against clandestine enterprises from without. What enterprizes of this nature can be attempted with the smallest prospect of success? Without procuring the door to be opened by the Porter a man cannot pass the gate: he is then inclosed in a defile as before, reconnoitred all the while from the Lodge at one end, and the building at the other. The Gate which lets him in, might in the act of opening it, and without any attention on the part of the Porter, ring a warning-bell proclaiming the stranger's entrance and approach.

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3. Against

3. Against holtile enterprizes by mobs. The enterprizes of mobs cannot, like the attempts of individuals, be fudden and fecret : they have always a known caufe. The guards are every where upon the watch .-- Is mifchief threatened? The Porter rings his bell. A centimel fires his piece. The force of the prifon is collected in the front. What mob will make any attempt against the gates? No fooner have they begun, than they find themfelves expoled to the fire of the whole front : that front more than twice the breadth of the fpace they occupy, and converging thither as to a point. There needs no riot-act : the Riot-act has been read by the first man who has forced himself within the gates. The line is compleatly drawn beyond all power of mistake: all within it are malefactors. The avenue is no public highway. It is the private inclofure of the Keeper of the Prifon: those who force themselves within it do fo at their peril.

In the ordinary flate of prifon-building, all preparations for an attack, every thing flort of the actual attempt, may be carried on without moleflation under the Keeper's nofe. The rioters coffect together in force, in what numbers they think proper, and with what arms they can procure. What

What shall hinder, or who shall fo much as queftion them? It is the King's highway: one man has as much right there as another. Let them have what arms they will, ftill who shall question them? Every man has a right to carry arms; till fome overt act demonstrates his intention of employing them to a forbidden purpose.---Observe now the confequences .- The walls of the Prifon are impregnable; its doors well fortified; windows looking to the highway it has none. But the Keeper's doors are like other doors : his windows, like other windows. A bar or a log will force the one: a ftone or push will lay open the other. Where the Keeper enters, there may the rioters enter, and there may the Prifoners get out, when they are in the Keeper's place. The cuckoo is completly hedged in, except at one place which is not thought of.

At Newgate the building, including the Keeper's houfe, runs along the public footway: and the fate of that edifice at the difgraceful zera of 1780 difplays the confequence. No impediment does it prefent, natural or legal, that can hinder any fingle man, or any body of men, from introducing their eyes or hands close to the Keeper's windows. A little army may come up with clubs and from crows

crows to the very door ready to force it open, and till the attack is actually begun, there is neither right nor obfracle to impede, much lefs power to hinder them.

All the other prifons in London, that I recollect, the King's Bench amongft the reft, are in the fame predicament. Had the contrary precaution been obferved, the tragedy of St. George's fields would hardly have been acted. The ill-fated youth, whofe death drew forth in its day fuch a torrent of popular difcontent, would not have fallen, or his fall would have been acknowledged to have been not undeferved.

In a great town, the ground may not always admit of giving the remedy its full extent: though to a certain extent, and that fufficient to give a vaft advantage over the common plans, it might be made use of almost every where.

Even Mr. Howard's plan, though uncircumfcribed by any confiderations of local neceffity, even Mr. Howard's plan of perfection in the abstract, has overlooked it. • The piles of building allotted to the convicts are indeed placed all of them within, and at a distance from, the furrounding wall: but lodges for Porters, a house for a Chaplain, and another for a Steward or Storekeeper, form part of it. Along

Along fide, for any thing that appears, runs the public way: nor is there any thing to hinder a mob of rioters from forcing themfelves in at the Chaplain's and the Steward's door and windows, till the outrage is begun.

Thus it stands upon the face of the engraved. plan. His after-thoughts, fo far from obviating the inconvenience in question, double it. His laft opinion is in favour of "a fpacious walk, clear of" " buildings, through the centre, with three courts " on each fide, and the Chapel and Chaplain's " apartments at the opposite end, facing the Go-" vernor's own apartment."*-Is the Chaplain then to have an outlet at his end, as well as the Governor at his? This will require another pair of Lodges (for the plan gives two) and at least one other Porter. At any rate the Chaplain and his family are out of the reach of lending an inspecting eye to observe the approach of those who come on a the defign, or with the pretence, of vifiting the Governor, his family, or his fervants. The infpec-tive force at that end is pro tante diminished, by the removal of that conftituent part of it.-What Mr. Howard's reasons were for this change of opinion, he has not told us.

• CR Lazarettos, p. 229. PART I. N. No.

No one can be more anxious than Mr. Howard to prevent every part of the building where prifoners are lodged from having windows to the ftreet.—Why? Becaufe fuch windows, befides affording converfe, will let in fpirituous liquors, not to mention implements for efcape. Windows to the Governor's houfe, or the Chaplain's, will not indeed let in fpirituous liquors, or any thing elfe into the prifon clandeftinely, but they will let imarmed deliverers openly where they are in force.

3. The Avenue why contracted at the entrance?— The narrower the entrance the lefs the expence of the gates which clofe it, and the more perfectly it lies within the command of the Porter. At the fpot where it reaches the building, were it no wider than it is at the entrance, it would fcarce afford turning-room for carriages, much lefs the standing room which would be requisite at churchtime. Were it of lefs width than the front, fo much of the front as was excluded, fo much of the infpective force which that part of the building furnifhes, would be lost.

Of the total area inclosed by the general furrounding wall, the magnitude muft of courfe depend upon a variety of circumstances, fome of a more general, others of a local or otherwise parti-

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cular nature. Behind the building it will be occupied by the Prifoners' Yards, of which in the laft fection. In front of the building on each fide of Approach, it will be occupied by exterior offices and officers gardens.

On the outfide all round, at a fmall distance, (fay 12 foot) from the wall, runs a flight palifade of open work. The intermediate fpace receives four Centinels whole paths flank and cross one another at the ends. The walls, instead of forming an angle, are rounded at the junctions. The palifade will ferve as a fence to the grounds on the other fide: but highways on which the public in general have a right to pass, whether carriageways, or fimple foot-ways, are kept from approaching it as far as may be.

At two of the corners the place of the palifade might be occupied by two Guard-houses : each with two fronts to flank and command the two Centinel's walks. To one of these I should give fuch a fituation and fuch a height as to enable it to command the Airing-Yards: but at that quarter in which it would be at the greatest distance from those destined for the reception of female prifoners, if that fex be admitted, it might have a Platform in that fituation, and in that elevation, without

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Approach and Fences.

without having any windows either way. It might have a communication with the Airing-yards, to be made use of in case of alarm and demand of functour from the Keepers in the Building or the Yards. The communication might be effected in any one of feveral ways: by a draw-bridge, by an underground passage, or by a ladder kept under lock and key: the key always in the hands of the commanding officer. To prevent convetse between the foldiers and the prisoners, the doors opening into the Platform (for windows that way it has none) ought to be locked up, and the key kept in the fame custody. It is for this fame reason that I attach it, not to the wall, but to the palifade which is detached from the wall.

4. Why the palifade?—To cut off from the public in general all facility and all pretence for approaching the wall, near enough to attack the: Centinel, to hold converfe with the prifoners in the: Yards, or to plant ladders or throw over ropes toenable them to efcape.

5. Why of open work rather than clo/e? a wall for inftance, or a park-pale?—For cheapnefs: and that nobody may approach it without being feen.

6. The

Approach and Fonces. 181

6. The Continel's walks, why croffing and flanking each other ?---- That each Centinel may have two to check him. Who in fuch cafe would venture or offer to bribe any one of them to connive at projects of escape? the connivance of any one, or even any two would be unavailing.

7. The walls, why rounded off at the meetings ?*-To avoid giving the affiftance which angles afford to the operation of climbing up in the infide. Add to which, that the greater the fpace thus rounded off, the greater the part of each Centinel's walk, which is laid open to the view of the two others.

As to the height of the wall, and the thickness, which will be governed by the height, the quantum of expence neceffary on this fcore would depend upon the decilion made as to the reforting or not reforting, to the military establishment for a guard. With this affistance, added to that of the palifaded walk, walls of very moderate height would be fufficient: fay

* For this precaution I am indebted to Mr. Blackburn. In what instances, if any, he has himfelf applied it, I do not know. I took the hist from a history he used to tell of a man who, by the affiftance of two walls meeting at a right angle, and an infrusment of his own contrivance, used to convey himfelf in this way over the wall of the King's-Bench Prifon in St. George's Fields. 8 or

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8 or 9 foot, about 2 or 3 foot above the height of a tall man.[•] This height would be fufficient to prevent any intelligible converfe between Prifoners and Centinels: forbidden converfation will not be carried on in a loud voice, in the ears and under the eyes of the fuperiors who forbid it. Without this affiftance it might be rather difficult to draw the line.

By rejecting this affiltance, the requisite quantity and expence of walling that *might* be thought requisite, might be encreased in another way. The higher the wall, the more obstructive to ventilation. The higher the wall, the more ample the space that on that account it might be thought necessary to inclose within it: and the greater that space, the more walling it would take to inclose it.

Did it depend upon me, though I would get a military guard if I could, yet even without fuch affiftance, trufting to fo many other fafe-guards, I think I would put up with an 8 or 9 foot wall. In the Look-out fits conftantly an Infpector armed and inftructed, and commanding all the Yards. By

* Or would not 12 foot be deemed necessary ? fince one man might mount on the shoulders, and perhaps for a moment on the head of another.

a bell

a bell he fummons to his affiftance at any time the whole collected force of the Prifon.

8. To what use the Protection-Wall, and the Protection-Road? — The use is tolerably well indicated by the name. Behind the Wall, and in the Road, in case of an attack by a riotous mob upon the Gates, as many passengers as do not choose to take part in it will find shelter: and the attack may be opposed with fire-arms from the building with the less scruple, as no one can suffer from it whose guilt has not made him the author of his own fate.

And would you wish then to see a perhaps wellmeaning tho' culpable multitude devoted in heaps to flaughter?—No furely: though better thus than that the Prison should be deftroyed, the Prisoners turned loose upon society, and justice ftruck with impotence. But the truth is, that nothing of this fort will happen: the more plainly impracticable you make the enterprize, the furer you may be that it will never be attempted. Prevention is the work of humanity. Cruelty joins with improvidence in making the instruments of justice of such apparent weakness as to hold out invitation to a destroy-ing hand.

This is perhaps the first plan of defence against rioters, of which the protection of the peaceable N 4 paffenger

 patterner ever made a part: the first in which the diferimination of the innocent from the guilty was
 ever provided for or thought of.

In the inflance of every prilon—of every public building as yet exifting—an attack once begun, what is the confequence? The guilty must be fuffiered to perpetrate without controul their forbidden enterprize, or a continual risk incurred of involving the innocent in their fate. What is the effect of ftreet-firing?—A medley mallacre of rioters and paffengers, of guilty and innocent, of men, women, and children.

The maximum of economy with regard to the figure of the ground, and thence of its furrounding Fences, remains yet to be fuggefied: and fituations may be conceived, in which it would not be irreconcileable with convenience. The quadrangular figure is that which will naturally have first prefented itfelf. But three lines are enough to enclose a space. The ground may therefore be miangular: nor, if regularity, and beauty in as far as it depends upon regularity, are diffregarded, is it neceffary that of this triangle any two fides should be equal. An equal legged-triangle with the legs longer than the base, is to be preferred to an equilateral triangle, much more to a triangle having the

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the angle opposite the base equal to or greater than a right one. The reason is, that the figure may have a space running out in length, in order to afford a sufficient length of avenue: the point or apex being cut off, in order to form the entrance.

The number of the Centinels too, if the military plan of guarding be approved of, and if the difference in point of number be an object, will in this way be reduced from four to three.

With or without a guard, the Infpection-principle, feconded by other affishances, we have feen, or Thall fee, relative to the plan of management, fuperfedes the necessity without detracting any thing from the ingenuity, of Mr. Blackburne's expensive system of moral fortification. If a man gets to the other fide of the wall (faid he to me one day as he has faid to others) it must be by getting either through, or under, or over it. To prevent his getting through, I make is of flowe, and of flomes to a maffy to be difplaced, as bricks may be, by picking, To present bis gotting under, I make a drain. As he undermines, no featur is he got within the Arch than out fleus the water and figils his mine, - To prevent his getting over there was a fuftem of procautions one under another too long to be repeated here .- Sound logic was here combined

combined with admirable ingenuity: in all this there might be nothing which on certain fuppolition might not be neceffary. What is that fuppolition?—that in fome cafes a number of Priloners, in others at least one Priloner, have time almost without stint to carry on their operations unobferved. In all other modes of construction, under all other systems of prison-management, the suppofition speaks the truth. But under the Panopticon mode of construction, under the plan of management which it supposes and provides for, is this the cafe?—exactly the reverse. What Prisoner carries on plans of escape under a Keeper's eye?

In a dark night, it may be faid, the benefit of the Inspection-principle fails you.—Yes, if there be no lamps fufficient to light the wall:—Yes, if there be no Watchman patrolling in the house. The question then lies between the expence of this fystem of complicated circumvallation, and the expence of lighting, or rather the expence of providing a fingle watchman to go the rounds. I fay that a watchman will be sufficient fecurity without even lighting on purpose, and that in an establishment like this a watchman need cost nothing : fince the people neceffary for guarding and instructing by day, will be fufficient to watch at night by turns. Even in the darkest night and without artificial light, can

a Prifoner without tools, at no more than 25 foot diftance from the watchman, first force through the glass of a window, and then through iron bars on the other fide? Will he hazard any fuch attempt, when supposing him against all probability to succeed, there is still a wall of 13 foot high for him to climb (I mean that which bounds the Exterior Well) and beyond that another?

To get clear altogether of the obstruction afforded by walls to ventilation, it has been proposed to dig a ditch, and to fet down the wall at the bottom of the ditch. The expedient feems unneceffary, the expence of it considerable, and the inconvenience material and unavoidable.

The inconvenience is that whatfoever it may do with regard to fecurity, it gives up feclufion. Of what breadth muft your ditch be ?—A hundred, two hundred foot would not preclude converfe with the ear: nor four hundred foot, nor a thoufand, with the eye. The grounds all round would be a continual rendezvous for the affociates and confederates of the Prifoners: that is, for all forts of malefactors. It would be a continual fcene of plans of mifchief, and plots for efcape. What Ahould hinder a man on the outfide from toffing

By the late Dr. Jebb, in a pamphlet written on purpole.

over a rope or a rope-ladder to a Prifoner prepared to receive it? What flould hinder twenty men from doing the fame thing at the fame time?

How is the ditch to be conftructed? If the fides are perpendicular, they must be fupported by brickwork, or the earth will be continually washing and crumbling in, till it reduces the depth of your ditch, and confequently the height of your wall, to nothing.—Are they to be thus fupported ?—Then befides the exponent of an enormous ditch, you have that of three Walls inflead of ane.—Are they to be floping without brick -work ? The width of this enormous ditch must then be enormously encreased, and fill the obnoxious effect will be gradually produced. By the Prifoners at least on their fide, every thing will be done, that can be done, to accelerate it. Among their friends too on the outfide, to contribute a flope or an handful of earth will be a pieus work.

At any rate you have on each fide a receptacle for flagmant water. --- Which would be the greater? the fervice done to health by the finking of the wall, or the detriment, by the accumulation of this water?

It would be incompatible with the mode of guarding above proposed, by Centinels inclosed in inacceffible lanes: unless stationed at such distances

as would occasion an enormous addition to the length of their walks, and to the quantity of ground confumed. For it would be altogether ineligible to bring the guards to near as to possible an easy matercourse with the Prifoners

Were it indeed worth while, the advantage inpoint of ventilation expected from this idea, might be obtained by a partial adoption of it, with the help of one of the precautions already indicated. It would not be neceffary to lay the fpace openall round: it would be fufficient were it laid open at one end, and that end might be narrowed in the manner of the Approach as above deferibed. But at that end the property of the ground on the otherfide to a very confiderable diftance would require to be attached to the establishment : in fuch-manner that no ftranger should have it in his power to approach near enough to hold any fort of converie either with the Prifoners, or even with the Centinel; whole path must also be at such a distance from the nearest spot to which they can approach, as to prevent all converse between him and them, in a voice too loud to escape the ear of the Inspector in the Look-out.*

Prifons are not by any means the only buildings to which this mode of exterior fortification, if it be doing justice to a precaution

With a view to *infpettion*, it might be applied to all fuch public effablishments as on account of their defination, of their importance, their magnitude, and their defination, of their importance, their magnitude, and their definatibility, are particularly exposed to the clandefine enterprizes of foreign emisfaries: fuch as public magazines and Dock-yards. The Approach should be fo confiracted, and the officers' houfes and flations fo disposed, that every firange face should have the gauntelope to run as it were through all their eyes, and that any instance of negligence on this head on the part of any one of them, should be exposed to the observation of all the reft. Had a plan like this been purfued in Plymouth Rope yard, the fad defiruction to which that important magasine was devoted in 1776 by the hands of a wretched incendiary, might perhaps never have had place.

With a view to defence against open bossility, it might be applied not only to every prifon, but to every other building, public or private, which by the provocation it holds out to rapacity or popular antipathy, is liable to become the object of lawlefs violence. A Money-bank, a great Corn-magazine, a place of worship belonging to any obnoxious fect, a new ere cted machine which appears to threaten a fudden reduction in the price or the demand of any kind of labour-may afford fo many examples. With thefe precautions Dingley's Saw-mill, for inflance, for which the nation was charged with fo heavy an indemnity, would probably have efeaped.

I fpeak not here of the mode of guarding by Centinels: a fpecies of protection which could only be afforded to public establishments, and to fuch establishments as were of adequate importance. I fpeak only of the mode of constructing the Approach :---its wnity---its fituation in a walled recess----that recess as deep as the ground

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ground will allow—contracted at the entranc—and commanded by as many officers' houfes and flations as can be brought to bear upon it—Gates of open work—and on the other fide of the road a Protection-Road—covered by a Protection-Wall—all other roads, befidts that which the Approach opens to, kept at a diffauce.

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§ 22. MEANS

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§ 22. MEANS OF SUPPLYING WATER

TWO fources of fupply prefent themfelves: the rain-water collected on the roof: and common water, fuch as the fituation furnishes, to be forced up by the labour of the Prisoners in the: Airing-wheels.

The first fupply is not a constant one, and will go but little way towards answering the exigencies of fo numerous an inhabitancy. It must however be carried off at any rate: and any one of the 8 iron tubes that form the supports of the Inspection-Tower, will afford a channel adequate to the purpose. Branches from this main would ferve to convey the water to refervoirs in or near to the Kitchen and the Laundry on the funken floor.

The only combustible parts of the building, or rather the only parts of the building affording a few combustible materials, will be the Inspection-Lodge, the Inspection-Galleries and the Chapel-Galleries. By way of provision against fuch: accidents, a *fire-engine* should be kept in a place contiguous to the Central-Area, with pipes communicating

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municating either with the refervoirs above-meationed, or with the more copious and certain ones, which fupply the water that is forced up by the wheels.

To receive this water an annular ciftern runs all round the building. It is placed immediately un-, der the roof, and within the outer wall. The wall affords it fupport: the roof, a covering from duft and any other matters that might foul the water. Under it run down in a perpendicular direction to the bottom of the building, at the places where the partition walls join the outer wall, piles of iron pipes ferving as mains, one placed between, and ferving for, every two piles of Cells. From each of these mains run 12 short branches with a cock to each, one to each of the twelve Cells. Of these mains, which for 19 Cells on a ftory cannot be fewer than 10, fuppoing none to be wanting for the Dead-part, two, by the help of fo many branches running over and across the Exterior Area, will ferve likewife for conveying the water up by the pumps worked by the wheels.*

Shall the whole fupply of water be carried up to the top of the building? or fhall the quantity re-

• To adapt them to this double purpose will require fime little contrivance; but too obvious to nee i particularising.

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quired for each ftory of Cells be carried no higher than is neceffary to convey it to those Cells ?- The latter arrangement would fave labour, but it feems questionable whether upon the whole it would be the most economical one. Instead of one cistern it would require fix; each of which must have its. fupports running round the building: and though each would require but one fixth part of the capacity of the general ciftern, it would require almost as much workmanship, and much more than one fixth, perhaps as much as 1, of the materials.* To form a precise statement of the comparative economy of the two plans, compute the value of labour faved by that which gives fix particular cifterns, and fet against it the probable annual average of the extra repairs, added to the interest of the extra-capital which it would require. + But a more fimple, and what feems to be a decifive confideration, is the infecurity that would refult from these annular cifterns running round on the outfide, one under every ftory but the lowest. They would be fo many ladders to climb down by: from whence would

* I fay fix : for if it did not answer to have fo many as fix, by the fame rule it would not answer to have any more than one.

+ There would befides be the expense of the bringing to many pipes through the outer wall of the building.

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also refult the necessity of the further expense of having frong bars to those stories of Cells to which upon the present plan, as already observed, no such guards are necessary.

As to the particular mode of conveying the water to the ciffern, it is a topic I pafs over; as bearing no relation to the particular conftruction or defination of the prefent building: with only this remark, that, as the height is more than double that to which water can be raifed by the preffure of the atmosphere, fome other fort of pump than the common lifting one must be employed. Forcing pumps I observe employed in the New St. Luke's Hospital, and proposed by Mr. Howard. in his plan of a Penitentiary-House.

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§ 23. OF THE MODE of WARMING THE BUIEDING.

THE possible differences in the mode of applyr ing artificial heat to a building by means of culinary fire may be comprised in the following short analysis. It may be either open or close : if close, either unventilative or ventilative. The open, in which the fuel is burnt on hearths or in grates, with or without the benefit of a chimney, is that most in use in our three kingdoms. The unventilative is exemplified in the Dutch, Ruffian and Swedish floves: and in England in those used for hot-houfes, and in those used in dwelling-houses and other buildings under the name of Buzaglo, who first brought them in vogue: the ventilative, in the floves called Dr. Franklin's or the Pennfylvania stoves, and in those for which Messrs. Moser and Jackson* have enjoyed a patent for some years.

* Ironmongers in Frith-Areet Soho.

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The common or open mode is what, on account of the expence, nothing but abfalute receffity would jultify the employment of in a Brilon. 'Expenses of chimneys, grates, and other fire implements; 'expence of fuel, and of the time employed in conveying it; these expenses multiplied by the whole number of Cells: for whatever need there is of it for any one, the fame is there for every other. Even the mischief that might be done by fire, through defign or careleffines, fecure as a building thus constructed is from such mischief in comparison of an ordinary house, is not altogether to be neglected.

The fecond or unventilative method, befides its being far from a pleafant one-to-those who are not accultomed to it, is by no means exempt from the fulfpicion of being unfavourable to health. The heat fublishs undiminished, no otherwise than in as far as the air in the room remains unchanged: calefaction depends upon the want of ventilation. The air will not be as warm as is defired at a certain diffance from the heated flove, without being much hotter than is defired in the vicinity of it: between the two regions are for many concentric ftrata, in one or another of which every fort of putrefcible fubfance will find the flate of things O_3 the

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the most favourable to the prevalence of that noifome and unhealthy fermentation. The breath and other animal effluvia, while they are putrifying in one part of the room may be burning in another. The unchanged and unchangeable air is corrupted, the lungs, the olfactory nerves and the flomach are affailed, in all manner of ways at once: by empyreuma, by putridity and by respiration.*

In the different modes of producing these noifome effects there are degrees of noifomenels: an iron flove is worse than an earthen one: it contracts a greater degree of heat: and the vapour produced by the folution of a metal in burnt animal or vegetable oil, is an additional nuisance over and above what an unmetallic earth will produce.

• Get the flove heated upon your entrance into a German inn, in about half an hour you perceive an abominable flink : in another half hour a flight degree of warmth : in a third the heat begins to be comfortable, in a fourth it is become fuffocating. Open a door or window for relief, in rufhes the air in partial gufts, and gives you cold.

In hot-houfes, though the unpleafant effects of this mode of warming are perceptible to many people, they are however lefs for than in common dwelling-rooms; hot-houfes being for much lefs inhabited by animals whofe only effect on the air is to taint it, than by vegetables, which howfoever they may vitiate it in certain eways, are found to purify as well as fwreten it in others.

Over

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Over these impure methods of obtaining heat, the ventilative is capable of pofferfing a great advantage. The air which is to receive the heat being continually renewed, may be brought from the pure atmosphere without; and instead of being stagnant, flows in in a perpetually changing ftream. Inftead of burning in one part while it is freezing in another, the air of the room is thus rendered throughout of the fame temperature. A fucceffion of cold air from without is the lefs neceffary, as the warm air, what there is of it, is not lefs pure :* and this pure though heated air, if introduced, as it ought to be, from the lower part of the room helps to drive up before it, to that part of the room which is above the level of the refpiration, that part of the air which by having been breathed already, has been rendered the lefs fit for breathing.

By the Pennfylvanian floves these advantages were however possessing in but an imperfect degree.——Why?——Because the warming-chamber was a metallic one: it was of iron. By

* It is fuggefted to me by Dr. Fordyce, that in fuch a building matters might be contrived for that fearce any air fhould enter any where that had not passed through the warming chamber. I make use of that word to express the receptacle through which the mir is to be made to pass in order to receive the heat.

O 4 partitions

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partitions made between an iron back to the grate and another fuch back or the brickwork behind, the air was made to pass through a long though tortuous channel of that metal in a too highly heated fate.

In the room of the metal fublitute a pure and unmetallic earth, the mitchief has no place.

The misfortune is, that by means of earth alone, the operation has not hitherto been found practicable, unlefs perhaps it be upon a large fcale. In iron, your warming-chamber may be very thin, is foon heated, and is not liable to be put out of order by the heat. In earth, that receptacle if thick, that is of the thicknefs that muft be given to it if made of bricks, is a long while in heating, a great deal of the heat is abforbed and loft in it, it gives out its heat with difficulty to the air, which, before it has had time to 'take up a 'fufficiency of 'the heat is paffed through and gone:* add 'to which, that in joining the 'bricks mortar muft 'be ufed, and this mortar will be liable to Thrink and crack by the heat and lofe its hold. On the other hand, if the

* Could not the means be found of detaining the air with advantage till it had imbibed a fufficient degree of heat, for instance by a pair of valves?—This is one of many points that might require to be confidered.

earth

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earth be thin, as in retorts and crucibles, it will be liable to break by accidental violence, or crack by change of temperature: and at any rate it will not receive the heat from the fuel, or communicate it to the air, fo foon as metal would.

The warming chamber, or fet of warming-chambers employed by the artifts above mentioned, is calculated to obviate both those inconveniences. It confifts of earthen retorts, open at both ends, and inclosed in iron ones. The air which is to be heated paffes through the interior earthen veffel without coming in contact any where with the exterior iron one. The iron retort being that which alone is exposed to the immediate action of the fire, defends from accidents the earthen one within. The earthen one, being the only one of the two that is in contact with the air, defends that element from the contaminating influence of the heated metal on the outfide.

The ventilative plan, modified in fuch manner as to avoid the use of iron the infide of the warming-chamber, at least of iron in a 'too'highly heated state, 'being determined upon, the question is how to apply it in such a building to the most advantage?

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The first expedient that occurs is the making of what use can be made of the fires employed for the preparation of the food. From this fource any quantity of heat might doubtlefs be obtained: but whether in fuch a fituation it could be obtained to · any confiderable amount upon advantageous terms, feems rather difputable. In ordinary kitchens a good deal is produced, more or lefs of which might be employed perhaps in this way to more advantage than it is in common. But in a building of this form and defigned for such inhabitants, if the heat employed in the preparation of the food were difposed of to that purpose to the best advantage, the quantity that would remain applicable to any other purpose would, I believe, turn out to be but inconfiderable. That it would not be always furficient for that of the warming of fuch a building I am altogether confident.*

• The most economical mode of dreffing food by culinary fire is either baking or boiling. Baking, if performed upon the most economical plan, might be conducted in fuch a manner as not to afford any heat at all applicable to any other purpose, as will be seen below. The most economical mode of boiling is in what are commonly called *coppers*, because commonly make of that material, vessels bedded in brick-work with a place for fuel underneath, closed by a door which is never opened but for the ٦

The deficiency mult at any rate be made up by Roves to be provided on purpose. In this view the

the introduction of the fuel. In this way a fmall proportion of fuel comparatively (peaking ferves, fcarce any of the heat being discharged into the room.

On the common plans the door confifts of a fingle iron plate. It might be made double : confifting of two parallel plates, an inek . or fo afunder with a bottom between : the interval might be filled .up with fand, or fome other pure earth that is a worfe conductor of heat, if any fuch there be. The heat would thus be the better . kept in, and the outer partition of the door might be made to receive fo little of it as not to contribute in the fmalleft degree to the contamination of the air.

The heat contained in the fteam raifed by the boiling, fhould not be fuffered, as in private kitchens, to efcape in wafte. It fhould be collected and applied by tubes iffuing from the covers of the coppers, after the manner of a retort or fill bead. In proportion to the quantity of the provision that could thus be dreffed by fteam, would be the quantity of heat that would be faved. The the sheam, welfels would be ranged in front of the boiling welfels, upon an elevation fomewhat higher. The boiling welfels, in order to catch as much of the current of fire as poffible in its way to the chimney back, fhould extend as far back as was confiftent with convenience. Hence too another advantage: they would have the more furface, and the more furface the more fleam they would yield to the fteam velfels, with a given quantity of heat in a given time.. The better to confine the heat, it might be worth while .perbess * to make the fteam velfels, as alfo the covers and aceke

* Dr. Fordyce from experience, fays certainly.

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clost fold by the ingenious artifts above-mentioned grefent themfelves as the most eligible yet known.

of the soliers souble, with a lining of fome bady conducting fub-

The following fact, communicated by an intelligent and revesend friend, will help to fixew how far any attention that can be paid to the confinement of heat is from being a trivial one.

The following are the data in the precife flate in which they were given : from whence the accuracy of the calculation may be judged of.

In T. W's oven (the badly protected one) it takes 15 permyworth of word to bake 40 gailon loaves.

In T. R's, it takes but 8 pennyworth of wood (4 faggots at silweach) to bake 50 gallon loaves; and when he bakes a fecond time the fame day, it takes but half the quantity.

In a veffel confilting chiefly of iron, weighing upwards of a ten, sontrived for the purpole of hatching eggs, Dr. Fordyce many years ago produced by a fingle lamp of the fmalleft kind in wie, and communicated to the iron, a permanent degree of heat equal to that of boiling water. In the fame veffel, by the fame means, the produced an addition of heat to the amount of 60 degrees; ralfing the temperation from 40 to 100 in a large fpace in which a conftant current of air was pervading every part. The ule of feathers

S 2.3. Warming ..

What then is the degree of antificial host which, the whole of the apparatus employed flould be capable of mainteining?—What free and number of floves would be neceffary to infure it?—From, whence ought the air to be taken into the warming-chamber?—Whereabouts to be difcharged, from it?—How to be made to vifit every Cell?

As to the number of degrees of extra heat which the apparatus should be capable of affordings it should hardly be less than 40 of Fahrenheit's scales. Forty added to 32, the degree at the freezingpoint, would make 72, 17 degrees above the height commonly marked *temperates*. But in time of frost the heat is commonly more on less below the freezing point: one inflance I remember of its being for much lower as 46 degrees: 14 below 0. This, it is true, was for a few hours only, and that in the open air, and in a fituation particularly exposed. And in a building where the kitchen frees might at any rate afford foundthing, and the

feathers, fuppoied to be the worft conductors of heat exifting, waa the contrivance on which the production of those effects principally depended. Suppose the knowledge thus gained applied to the purpose of dreffing the food in the manner of an oven, what would be the furplus of h cat applicable to the gurgose of warraise; the huilding ?-----None.

warmth

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warmth of fo many bodies, added to that of for many lights, would afford fomething more, and where the thickness of the walls would afford fo much protection against fudden vicifitudes, no fuch very extraordinary deficiencies feem probable enough to be worth providing for. My learned advifer above-mentioned thinks I may venture to fet down the lowest degree to be apprehended as 254 Forty added to this makes 65, 10 degrees above the temperate point. This may be more than will ever be neceffary. But in a permanent provision, fome allowance should be made for accidents, and in a business of such uncertainty, still more for miscalculation. Officers, it is to be remembered, not lefs than prifoners, must be kept in view. Should neceffity be the only object to be provided for in the one cale, comfort and cuftom must be attended to in the other. Happily for the leaft regarded clafs, in a building of this form to be warmed in this manner, very little diffinction in regard to this important branch of comfort can be made.

As to the number and fize, the feven fupports (one of the eight being made use of as a waterpipe) afford so many chimneys, each of which is capable of receiving its stove. But how many out

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of the feven would be neceffary, and those of what fize ? Experience would determine : but as a provision must be made in the construction of the building antecedent to any experience that can be obtained in the building itfelf, data collected from experience of other buildings must be looked out for. Such data are not altogether wanting. A fingle flove of Mofer and Jackfon's conftruction, being employed in St. George's Church Bloomfbury, raifed the heat eleven degrees of Fahrenheit's fcale, and it did not appear that it was able to raife it any more. To produce in that Church 40 degrees of extra heat, the number above fixed upon for our prison, it would therefore require four fuch floves. What follows?-That to afcertain a priori from the above datum as well as may be the fize and number of floves of the fame conftruction neceffary for our building, three other data would be necessary: the dimensions of the above flove : the dimensions of the infide of that Church, and the dimensions of the infide of the Panopticon proposed : noting withall that the quantity of glass in the central Sky-light, in the Annular Sky-light, and in the Cell Windows, added to the number of the Partition Walls between Cell and Cell, would probably lay the Panopticon under

under some little difadvantage in comparison with that Church.

In the above manner fome conjecture may be formed relative to the total quantity of calefactive power that would probably be requisite: I mean of the fum of the contents of the warmingchamber, in whatever manner they may be difpoled.

But when the fum total of the contents is fixed upon, the number and relative fixe of the feveral warming-chambers is not a matter of indifference. Equality of diffribution requires that the number fhould be as great as poffible, and the capacities of the feveral warming-chambers equal. Eight fupports, that is eight chimneys to the twenty-four piles of Cells, would give a flove to every three piles of Cells. The Dead-part occupying the fpace of five piles of Cells, the middle one of the three fupports that look to the Deadpart would be the proper one to give up, and make ufe of as a water-pipe : the feven others would afford feven floves among nineteen piles of Cells *.

Total capacity out of the queflion, the mere number would and raife the price to more than 24¹/₂ guineas: the price of one of the brack face fuld by Mofer and Jackfon being na more than 3¹/₂ winces;, but the quantity of calefactive power obtainable from I feven

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Will the diffribution thus made be fufficiently minute? Experience alone can decide with certainty. Of the three piles of Cells corresponding to each flove, the middle one, if there were any difference, should receive more heat than the other two. But this difference 1 should expect to find little or nothing, and if it were but finall, it would be rather a convenience than otherwise: varieties of temperature might thus be adjusted to differences with regard to employment, health, constitution and good behaviour.

At its exit from the Warming-chamber, fhall the heated air be fuffered to take its own courfe, or fhall it meet with a tube to conduct it to the part at which it begins to be of ufe? This too would be matter of experiment, and the experiment might be performed without any confiderable expence. Terminating in the nearest part of the Intermediate Well, each tube would require about 14 foot in length. For the materials, the worst conductors of heat that would not be too expenfive should be felected: a square pipe of four thin

feven small floves would probably go but a little way towards furnifhing 40 degrees of heat to such a building.

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PART L

board

boards of that length, each four or five inches over. These might be covered with a case of loose cloth of the texture of the warmeft blanketing : which, to keep off the dust, and contribute still more to the confinement of the heat, might be enclosed in a familar tube. If by the help of these radial tubes the diffribution were not found equal enough, they might be made to terminate in a circumferential one of fimilar materials; the whole of the channel of communication or di/charging duct, as it might be called, would thus represent the exterior part of a wheel, composed of hollow spokes terminating in a hollow felly. The felly thus conftituted should be pierced at equal and frequent intervals with equal apertures, the fum of which should be equal, and no more than equal,* to the fum of the apertures of the radial tubes.

Why thefe radial tubes? fince, as far as they extended, they would prevent the horizontal diffribution of the heat, and, though composed of fuch materials as to abforb as little of it as possible, they would at any rate abforb fome.—For this reason:

• If greater, the heated air might be difcharged at the neare $\hat{\mathbf{x}}$ part of the circumferential tube before it had attained the most remote.

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that without them a great part of the air, indeed the greatell, by mounting directly to the ceiling of the funken flory, would be already 4 or 5 footabove the floor of the lowelt flory of the Cells: and the ceiling, as well by the nature of its materials as by its relative extent of furface, would abforb beyond comparison more of the heat than would be abforbed by the tubes.

The borizontal diffribution of the heated air being thus provided for, how to provide for its diffribution on a perpendicular direction among the fix stories of Cells in the fame pile? For if no particular provision were made, the natural tendency of the heated air being to make its way out by the shortess passing, the greater part of it would mount up perpendicularly to the sky-light, where it would mecessfarily find chinks at which it would make its exit, without ever having visited the Cells.

To prevent this aberration, and to infure a regular draught through every Cell, I infert a chain of tubes reaching from bottom to top, but with regular interruptions.* In the floor of each Cell of

• For the general idea of a fet of perforations for this purpole, and a view of the neceffity of employing them, I am indebted to the obliging fuggestion of Dr. Fordyce.

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the lowest story of Cells, close to the front wall, at an equal distance from the two fide-walls, andconfequently at the crown of the arch, I leave a round hole, fay 4 inches in diameter, paffing through the brick-work into the funken ftory below. To this hole I adapt a hollow tube of thin cast iron, of the fame diameter. This tube is continued in height to within a few inches of the ceiling above; which brings it to between 8 and 9 foot in length. Arrived at that height, it terminates in a horizontal mouth, which may be clofed by a fort of grating, transformable at pleafure into an unperforated plate.* Between this mouth and the lower end of the tube is a wire grating, to prevent correspondence by papers. Immediately over this tube, is the open end of a fimilar tube with an expanding aperture, flush with the ceiling, and confequently at a few inches diffance from the

• A neat contrivance for this purpole is employed by Meffrs. Mofer and Jackfon. Out of a circular plate of brafs, fpaces are cut in the form of *radii*, equal in dimensions to the quantity left. Under the metallic flar thus formed, a fimilar one is flowed, connected with the upper one by a pivot on which it turns. On giving a flight turn to the under flar, it moves from un ler the upper one by which it was covered before, fills up the interflices, and the aperture is compleatly and exactly closed.

mouth

mouth of the first mentioned tube, partly for the purpose of inviting the current that way in the same manner, partly for the sake of conveying the breathed air of that lowermost Cell into the upper region of the next above it: and so all the way up.

The uppermoft of all this chain of tubes runs through the roof, and opens immediately above. It may be there covered with an horizontal valve, the weight of which will be fufficient to clofe it, and exclude the colder air on the outfide. When lifted up by the ftream of heated air from within, the efflux of that air will be fufficient to prevent the influx of the colder one from without.

Why, inftead of a fimple hole in the brick-work, a tube, and that running to fuch a height —For two reafons: that it may not afford a means of fecret converse between the Cells: and that the air which has been breathed in the Cell below may not be conveyed to any part, in which it would be liable to be breathed again, of the Cell above : it is accordingly difcharged as high as possible above the level of the organs of refpiration.

Should the precaution be deemed neceffary, a few flight bars might be disposed in such a manner as P_3 to

to prevent a prifoner from introducing his head-or ear, near enough to the mouth of the tube to gain an opportunity of converse. But frugality forbids the being at the expence of these bars, before experience had shewn the need of them. The probability is that no fuch need would ever occur : fince a man could not make use of the aperture of the tube for speaking without mounting upon something, nor mountupon any thing for that purpole without fubjecting himfelf to a great chance of being obferved. Nor then would it avail him any thing, unless the perfon to whom he addressed himself in the Cell above or underneath, were elevated and occupied in the fame manner at the fame time, which without doubling the chance of detection could not be. Add to which, that if there be more than one in either Cell, they too must be privy to the imprecourfe hand in a fituation like this, privity without difclosure may in juffice, and ought in policy, to be put in respect of punishment, upon a footing with complicity.

The level at which the warmed air was discharged could not be too low : the only fpot in which there can be a certainty of placing it without inconvenience is the floor of the Intermediate Area

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and the space under the Lodge. Thus situated, the tube would not be above 7 or 8 feet below the level of the floor of the lowermost story of the Cells which are to be warmed by it. If it were in the ceiling, it would be already 3 or 4 feet above them, and before it could cross the Intermediate Well, would have been carried fill higher. If it were any where between the floor and ceiling, it would be in the way, and ftop the paffage, uplefs it were confiderably higher than a man's head, and then it would require pillars here and there to support it. To link it to that level, either the floves themfelvet might be funk down accordingly, or a perpendicular tube might drop from the warming-chamber to join the radical tube. The former expedient feems the most economical and the most fimple.*

It might perhaps be no bad economy to have a fort of curtain for the Annular Sky-light, to cover

* True it is, that though the air when heated will not naturally defeend, yet fudden gufts may carry it even in that direction, befides that the heat of every firstum of air will of Hill in a certain degree he communicated to every faratum of air that is contiguous. But these are affiftances too inconfide able to be adde quate to the purpole. They would fill leave a great difparity betwee the temperature of the lowest story and these above it. it

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it as foon as the lights are lit in cold weather." When not used it might be kept coiled up on rollers, at the upper part of the fky-light, that is, at the part where it joins the roof of the Infpectiontower, and from thence drawn down over and acrofs the Annular Well, and fastened by rings to ranges of hooks inferted a little above the interior windows of the chambers over the Cells. Iť might be of the thickness and texture of the warmeft fort of blanketing. It would be affiltant to warnith, not only by keeping the air from impinging against the glass of the sky-light, and there difcharging its heat, but likewife by ftopping the current and directing it towards the Cells. The fkylight, it should be observed, must unavoidably be fecured by innumerable crevices, one between every two panes: for in that fituation, in order to prevent their cracking by the viciflitudes of temperature, the panes inflead of being fixed in the frame and the crevices flopped with putty, must be placed fo as to lap over one another, without anything to close the chinks.

Provision remains yet to be made for the Lodge. This might be effected by a fmall tube running from each of the stoves. It need be but a small one:

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one: for the warmth yielded by the fupports themfelves through which the finoke is paffing, cannot but be confiderable. Not improbably it would be fufficient. If upon trial it should prove otherwife, it would be easy to add the tubes. To distribute the heat the better and affift the ventilation, they should open at the circumference of the room, but just above the floor, alternating with the chimneys The air, as fast as it was heated by the chimneys or by refpiration, would, together with the heated air from the tubes, make its way out at the central aperture. There would be no danger either of phlogiftication from the iron or want of ventilation! The utmost heat which the fmoke could impart to the chimneys would not be confiderable enough to produce the former inconvenience, and the Central Aperture is a fufficient fecurity against the lat-1. T. ter. £ .

Were it not for the diftance there is between the fpot where the air receives its heat and the apartments for which it is wanted, it is evident the *difcharging-dutis* could not be too fhort: fince the more extensive they are; the more of the heat they abforb.

As to the Infpection-Galleriet, being immediately over the fpot at which the difcharge of the heated air is effected, they can be at no loss for a fupply. It is but leaving here and there in the floor an aperture capable of being clofed at pleafure. Indeed it matters not how thin the floors of those Galleries are: if of mere boards, the mere crevices might anfwer the puspofe.

From whence shall the air be admitted into the warming chambers of the floves? From the entrance, by an admission-duck, a fort of an arriduct, if the term may be allowed, appropriated to the putpole. In general this is a point very little attended so. Air of force fort or other will be found every where, and any fort it is thought, may ferve. Air already within the building might even be taken in preference: fince by the flay it has made there is has already acquired fome heat. But if the dependence is on what draws in through doors and crevices, there can be no air any further than its proportion as where is an influx of cold air at all those inlets. The cold air that cames in at the erevices will in most infrances find its way to she bodies of those whom it is intended to keep warm; that which comes in at the doors will in every

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every inflance. But if a fupply adequate to the evacuation kept up by refpiration and other caufes, is introduced through the Warming-chambers, no fuch influx of cold air will take place.

This ariduct then will be nothing but a flue fimilar to those employed for conveyance of the imoke in hot-houses. Short tubes of iron, will ferve for its junction with the Warming-chambers. The quantity thus drawn in can fearcely be infufficient for respiration; * if it were, the deficiency might be made up by tubes discharging the cold air at a height above the heads of the inhabiting, and pointing upwards. †

• The quantity thus requisite is easily aftertained. The quantity of firsh air necessary to support a man without incorvenience for a given time has been pretty well determined. This quantity, multiplied by the greatest number of inhabitants the building can ever inclose at the fame time, would give the quantity of fresh air sequifice for the Supply of the building during that time.

Another use, which though collected to the show dufine, is not the leaft confiderable of the advantages that might be respect from it, is the oppertunity it would afford of a fat of experiments relative to the economy of heat. With the leaft quantity and expence of fuel peffible how to produce and furgoest for a given time a given degree of heat, applie ble to the feveral purposes for which heat is required? Such is the problem to be folved : a fully of the state of the state of the state of the state of the should which has never yet heat such as the problem to be folved : a fully of the state o

The Penitentiary-Act puts an inexorable negative upon all this contrivance. According to that

upon a large fcale. Of what importance the folution of fuch a problem would be to the population and wealth of nations may be feen at a fingle glance. Fuel of the foffil kind is a limited refource : the nation which confumes it lives upon a capital which much fooner or later be exhausted. The population of a country in which artificial heat is a necessary of life muft therefore ultimately depend upon the quantity it can keep up of fuch fort of fuel as can be obtained from the vegetable kingdom, the only fort which is capable of being regularly reproduced.

The facilities which a building upon the Panopticon principle would afford for experiments in this view will readily be apprehended. In the feven floves, which without putting more than one to each chimney it admits of, trial might be made of fo many different forms. The ventilative mode would of course be taken for the common bafis : but this ground-work is fusceptible of a great.variety of modifications. The confiruction purfued by Meffrs. Mofer and Jackfon, with all its fuperiority over all preceding methods, may yet be found to fail confiderably fhort of perfection in this line. Doubling the Warming-chamber occasions a great confumption of fuel, and renders this mode of warming far from being to cheap as could be wifhed. Could not the fame degree of extra heat be given to a building by a lefs degree of ignition given to a larger quantity of air ? For, as Dr. Fordyce has clearly demonstrated to me, the lefs the degree of heat which the air contracts in the warming-chamber the better, for very material reasons. Reducing the degree of heat given to the air by augmenting the quantity of air to which heat is given, could not there be found fome fingle fubitance of which a Warmingchamber :•*

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Act all Penitentiary-houses must absolutely be warmed, "dried and moderately warmed

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chamber might be made, without the addition of another receptacle to line or to enclose it ?'Is it molt advantageous to make the warming-chamber divided into partitions, as practifed by Mofer and Jackfon, or entire ? and if entire, to what extent can fuch a Warming-chamber be carried to advantage? What is the most advantageous form for the Warming-chamber, and what the most advantageous mode of applying the fire to it, and connecting it with the fireplace? The relation being afcertained between a degree of heat as indicated by the thermometer on the one hand, and the expanfive force on the other, and thence the velocity of current, and quantity of air to heated difcharged out of a mouth of known Simenfions within a known time, could not a given degree of heat be fecured at pleafure to the air thus discharged, by closing the mouth with a valve loaded by a weight, which would thus indicate and express by pounds and ounces the feveral degrees and quantities above mentioned, and confequently the calefactive powers of the flove ? Such are among the queffions which the enquiry would have in view. Hitherto, partly for want of fcience, partly for want of a proper theatre for experiment, whatever has been done by artiffs in this line has been little more than random guefswork. Means might not improbably be found, in some such way as above hinted at, of afcertaining a priori, I mean previously to any trial made in the particular building to be warmed, the calefactive power of a given stove, that is the quantity of air heated to a given degree which it is capable of yielding to that or any building within a given time. This indication being obtained, the feveral calefactive powers of different floves might be compared while they were at work at the fame time, whereas without it

in damp or cold weather,"----" by flues," and thefe flues must come "from the flues in the kitchens " and other public fires belonging to each house."*

The invention of Meffrs. Moler and Jackfon, as well as all other inventions, past, prefent and to

it the comparison could no otherwise be made than by fetting them to work in the fame building at different times. The fpecies and quantity of fuel employed in the different flowes, the temperature of the air in different parts of the building, and of the atmosphere without the building during the whole continuance of the experiments, these or other influencing or refulting circuftances would need to be carefuly marked and regiftered. In the fame way the comparative caleractive powers of different forta of fuel might also be afcertained. I have already hinted at the enquiries that might be made relative to the application of the heat to baking, boiling, and other domestic operations : not to mention those which, like malting, brewing and d filling, are conducted upon a more extensive scale. Were a course of experiments to be carried on with any fuch views, on fo new and fo peculiarly favourable a theatre, it might be of use that the plan of operations should be made public before hand, that fuch lights and instructions as might he obtainable from the philosophical world, might be collected before the commencement of the courfe. Philosophy is never more wor hily occupied then when affording her affiftances to the economy of common life : benefits of which mankind in general are partakers, being thus superadded to whatever gratification is to be reaped from refearches purely fpeculative. It is a vain and falfe philosophy which conceives its dignity to be debafed by ufe.

* 19. G. 3. c. 74. § 33.

could

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come, that make no use of flues, is here rejected, feven years before it was ever thought of. I must be allowed a word or two in behalf of these ingenious artists. I am a co-defendant with them: a partner in their guilt. The fame flatute which prohibits their mode of warming a Penitentiary-house, proferibes my mode of building one, and my mode of managing one, in almost every circumstance. What has the fervice been a gainer by this rigour ? We shall see—Economy, I presume, and that alone, was the power that dictated it. Humanity, however peremptory the might be in her injunctions that felons should have warm bed-chambers, would not of herself have been thus particular about the mode.

On the kitchen fires, which are put foremose, feems to be the grand reliance: the other public fires feem rather to be thrown in as make weights.

That economy could draw much advantage from this fource will not, I believe, feem very probable, to any one who may have caft an eye over one of the preceding pages. A Panopticon Penitentiary Houfe is a room : this flatute Penitentiary-Houfe was to have been a town with ftreets in it. In the room this refource feemed to amount to little : what would

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would it amount to in the town? I would as foom think of warming London by the fires of the tavern kitchens.

Thus then stands the economy of the contrivance. That the bed-chambers may be economically warmed by flues from kitchens, kitchens and kitchen-. fires, and fo forth, are to be multiplied till there are enough of them for the bed-chambers. Could the new invented floves be employed on any terms under this act? By prefcribing the one mode does it peremptorily proferibe the other? Would an indictment lie, or only a mandamus?-This is more than I would prefume to answer. But what must bedone at all events, or the politive injunctions of the two difobeyed, is-to build the kitchens. That done, and whatever degree of heat is neceffary being produced in that way, whatever degree is not neceffary, might perhaps be produceable in the most economical manner by the new invented floves.

A little lower we shall see more of these culinary laws: but the virtue of the present one is not yet exhausted. To decide this as well as all other questions relative to the construction of the building, three superintendents are employed. Suppose the three (no very unnatural supposition) to have

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have taken up each of them a different fystem about warming: one a patron of the ingenious artists above mentioned, another a disciple and pattizan of Dr. Franklin's, the third an adorer of the memory of the departed fage to whom this statute is fo much indebted, and an inexpugnable defender of the letter of the law. So many Superintendants, fo many irreconcilable modes of warming the house. How would they agree?——As the three original Superintendants did about the place where it was to be put.

The error lies—not in regulating badly, but in regulating at all. Economy, household economy, is the child of the hour: it changes with prices, which change with the progress of ingenuity, the course of taxation, the copious of so fupply, the fluctuations of demand, and a thousand incidents besides. Meddling with matters like these, the legislator will probably be wrong to day, he will certainly be wrong to-morrow.

Were I obliged to make a law about heat, I would rather enach the degree than the mode of producing it. In no Cell shall the heat ever be suffered to be fewer than such a number of degrees, nor more than such another number, above the freezing PART I, Q point

E.C.

point in fuch or fuch a fcale. Infure this degree, you whose business it is, as cheaply as you can.—Is the temperature thus fixed upon, a proper one? It will not be less fo a thousand years hence. Minuteness might be objected, but not improvidence.

To what end this economy all the while? that felons may have fires, or what is equivalent, in their bed-chambers. I fay in their bed-chambers. For in these Cells they are to do nothing but "reft :"* this is carefully provided : other apartments are to be given them for workingrooms and dining-rooms.†—Fires in bed-chambers for felons ? Is it every gentleman whose bedchamber has a fire in it, or fo much as a place to make one ? In the coldest and dampest weather, is it altogether universal, even in the most opulent. families, to have a fire to go to bed by ?

And have not your felons then this luxury ?-Yes, —that they have: and glad I am they have it— Why ?-becaufe it cofts nothing: they have no. ether rooms than their bed-chambers. Is it that' they may have warm rooms to fleep in ?-No: but that fuch of them as are employed in fedentaryrades, may work and fit comfortably in the fhort



intervals of their work, inftead of fhivering in forced and comfortlefs inaction. By night as well as by day, they work as long as health and eafe permit. They are not, like fome we fhall fee hereafter, compelled to lazinefs beyond that of the lazieft child of luxury, chained to their beds by law.



3.5

\$24. OF THE ECONOMY ODDERVED IN THE CONSTRUCTION.

IT may be reduced to three principal heads: I-Making the fame apartment ferve for every thing: 2. Making the Cells capable of ferving for two, three, or four inhabitants inflead of one: 3. Making them no larger than is neceffary.

1. Six feveral modes of action or existence are incident to the perfons for whofe reception the building is particularly defigned: to work, to eat, to fleep, to pray, to be punifhed, and to be nurfed. One and the fame place ferves my prifoners for all of them. If the reftriction is fevere, it is not unexampled. In our own three kingdoms it is the lot of many hundred thousands, perhaps of fome millions, of better men.

I fee nothing that should hinder a man from working where he eats, working where he fleeps, eating where he works, eating where he fleeps, fleeping where he works, or fleeping where he eats. All this and more, it has more than once happened to myself to do in the fame room for a confiderable time together, and I cannot fay I ever found any bad confequence from it.

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I conceive it not altogether impofible for a man, nor even for a Chriftian to pray where he does all this: Chrift and his Apoftles did fo. Synagogues excepted, neither Chrift nor his Apoftles knew what it was to pray in any confectated place.

Not that for all this I have any objection to that rite. It feems neither difficult to fhew that it does fervice to religion, nor eafy, if poffible, to fhew that it does differvice.

In my plan I accordingly admit a confecrated fpace, and that by no means a confined one: a place in which no operation that does not minifter to religion shall be carried on. All I contend for is that it is not necessfary that the Prifoners should themselves be fituated in that place: that it is sufficient to every purpose if, without being fituated there, they fee and hear what passes there. The place where the Minister is fituated, and where the more considerable part of the auditory are fituated, the place to which the eyes and the thoughts of the Prisoners are turned, is holy ground.

As little reafon do I fee why the fame place fhould not ferve them for being punifhed in. Separate apartments for this purpofe are furely of all luxuries one that can beft be fpared.*

 At Weftminfter School, two brothers once upon a time were caught firaggling out of bounds. For their chaftifement, their father

As to nurfing, whether upon the common plans of construction, separate rooms for that use were neceffary, is not strictly to the purpose here. The bed-chambers being all fingle ones, I do not immediately apprehend what advantage the patients were to get by being removed out of those rooms into others, unless it were that of having fires in their rooms, a benefit which without fhifting their quarters they might have received from portable floves. A portable flove not only costs less than a room, but is sooner made. Were the Infirmary-rooms at any time to be filled, it would be rather an aukward circumstance for a patient in a high fever to wait for attendance till an additional Infirmary could be built and in readinefs to receive him. At Mofer and Jackfon's, a good portable flove may be had upon the pureft

father, a character not unknown in those days, caufed two ferulas to be made on purpose. The sum of each culprit's transgression was informed upon the infrument of his punishment: and care was taken that in the correction of him who had ftrayed to St. John's, the ferula should not be employed which was defined to wipe out the guilt that had been contracted inTothill-Fields. I remember the boys, the father, and the fticks. The mode of chaftlement was, it must be confessed firiking enough, but was it a necessfary one? As necessfary at least as it would have been to have built rooms to punish them in. And of the two contrivances, building a room, and engraving a couple of words upon the head of a ftick, which is the most expensive ?

principle for 3th guineas ready made: ftoves of inferior quality, and lefs elaborate contrivance, probably at a ftill cheaper rate.

But be this as it may in the Penitentiary-town defigned by the Act, in a Panopticon Penitentiaryhouse, nursing rooms on purpose would be unnecesfary beyond difpute. Rooms better adapted to that use than every Cell is of itself, or even so well, can hardly be shewn any where. By nursing-rooms on purpose I mean rooms, which when they are not put to this use are not put to any other. For as to particular Cells, more particularly well fuited to the purpose of an Infirmary, than other Cells, fuch have already been pointed out, and under that very name:* but the convenience they would afford to the fick, is no reafon why, when there are no fick, they fhould remain unoccupied. Indeed the whole of the upper flory of Cells is peculiarly well adapted to this use. None of the air that has visited any one of these Cells ever visits any other part of the whole building: and being fo much nearer than any others to the roof, they can receive a portable flove and its chimney, with fo much the lefs inconvenience and expence.+

* § 6. Dead part.

† A feparate Infirmary for a Panopticon Penitentiary-house? I would not defire fuch a thing even for the plague. Guardat by proper

All these different sets of apartments the Penitentiary Act supposes-all but one, the dining-

proper regulations, I should not have the smallest apprehension of inhabiting the Infpection-tower, while the Cells were filled by patients dying of that difeafe. How much lefs would there be to fear, where the only danger is a poffibility of its importation by goods or paffengers on account of the country from which they come ? A LASARETTO may accordingly be added to the number of the establishments to which the Panopticon principle might be applied, under fome variations, to fignal advantage. On caffing an eye over the Table of ends and means at the end of this volume, the reader will eafily diftinguish fuch of the latter as are applicable to this purpose : he will also diffinguish with equal facility fuch of the expedients as being adapted to opposite purposes would require to be difcarded or changed. As to comfort, amufement, luxury in all Its shapes, it is fufficient to hint that there is nothing of that fort. that need be excluded from fuch an hotel any more than from any other. But every thing of luxury apart, what would not Howard have given for a Cell in a Panopticon Penitentiary-house as here described, instead of the apartment in the Venetian Lazaret, the ftench of which had fo nearly coft him his life ?*

I must not dwell in this place on a fubject of fo confined a nature and fo foreign to the prefent purpofe. I will only just add, that the plan of warming as here deferibed would abord a method peculiarly advantageous of airing the cotton wool, which is the great and dangerous article in the Levant trade. Laying the cotton in light firata upon numerous and fhallow ftages, in fheltered warehouses, occupying the ground floor of the Cellular part of the building, it might easily be fo ordered, by flues or pipes leading from the back part of those frages to the flowes in the Inspectiontower, that not a garticle of air fhould with the fire in the flower, "Howard on Lazaretto", p. 11.

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rooms, it expressly orders.* I fee no mention in it of powdering-rooms.+

On the common Penitentiary plans each prifoner muft at any rate have a fleeping-room to himfelf.—Why ?—Becaule, being under no fort of infpection or controul during the hours allotted for fleep, which under the common management occupy the greatest part of the twenty-four, even two, much more any greater number, might prompt and affift one another in plotting to escape. But the rooms they fleep in might at fome times be too cold for working in, or they would not hold the machines which it is thought advifable to employ, or their work requires that they should be

that had not made its way through the cotton on the friges. The ventilation, befides being fo much more perfect, not depending as it must otherwise upon the uncertainties of the weather, the continuance of this irk forme and expensive probation might be fo much the fhorter.

* Not exactly fo. Meals, for aught I fee, might be made in the working rooms: they cannot, however, in the fleepingrooms. § 33. I am not certain whether Mr. Blackburn put dining-rooms in his plans: I think I have heard he did. Two Chapels I know he had put in for the National Penitentiary-houfe: one for each fex: but flruck out one of them upon its being fuggefted to him that it was poffible for the two fexes to be in the fame place at different times.

† I was once much prefied to put a Tennis-court in my plans for felons have not lefs need of exercise than honest men. Powdering-rooms are more common, and would be lefs expensive.

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under the eye of an Infpector, which they cannot be in these rooms. Therefore there are to be other rooms for working in.

Have any notions about health and airinefs contributed to this opinion about the neceffity of different rooms for the different parts of the twenty-four hours? I am not certain : though fomething to this effect I think I have observed in the publications of Mr. Howard. But even under the common Penitentiary discipline, I should not think any such multiplication neceffary: much lefs under the plan of management here proposed. To how many hundred thousands of his Majesty's honest subjects is fuch luxury unknown! Even among perfons fomewhat above the level of the loweft clafs, what is more common than to have but one room, not only for one perfon, but for a whole family, man, wife and children? and not only working, and fleeping and eating, but cooking to be performed in it. Among the Irish cottars, as we learn from Mr. Arthur Young, that is among the bulk of the Irifh people, one room is the only receptacle for man, wife, children, dog and fwine. Has that one room fo much as a fingle window in it, much lefs oppofite windows, or any aperture but the door? In towns where one room forms the fole dwellingplace of a whole family, has not that room closed windows in it? Is there any commanding power

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to enforce the opening of any of those windows? Does not the averlion to cold forbid it? Are they fo much as capable of being opened, if at all, for more than half their length?----and that the lower half?*----

Let me not be mistaken. Far be it from me to propose the manner in which the common people live through ignorance, as a proper model to be purfued by those who have the good fortune to be possession possession of more intelligence. Far be it from me to infinuate that a bad regimen ought to be prefcribed only because it is practifed. All I mean is, that the degree of airiness most frequent in the dwellings of the greater part of the people is inferior, and much inferior, to that which might be obtained without multiplication of rooms, even according to the hitherto received mode of conftruction for Penitentiary-houfes, and according to the mode of management hitherto purfued in them. In prifons even fo managed, the inhabitants would not in this respect be worse off, but much better off, than the common run of men at liberty. Yet

* Were ventilation the object, the upper fails would be the one to open in preference, effectially where the higheft part of the lower one is not above the level of the organs of refpiration. Were it not for accidental gufts, fo much of the air as is above the aperture might remain for ever unchanged. It may perhaps have been partly on this confideration that in Mr. Howard's and the Wymondham plans the holes ferving for windows are placed to high.

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even in this respect how inferior are some of the most approved plans of construction in comparison of the one now proposed !* There, when you flut out rain or snow, you shut out air. There, rain or not rain, windows open or not open, you have sress air in plenty: in much greater plenty than is usual in a palace.

2. Of fuch part of the faving as refults from the fublituting a fleady plan of mitigated fectufion in fmall apartments to an alternation of folitude and promiscuous intercourse, nothing farther need be faid here: it has been fully vindicated in a preceding fection.

3. Of the wafte of room obfervable in the common plans, a great part is to be placed to the account of *height*. Not more than eleven feet, but not lefs than nine, is the height prefcribed by the Penitentiary Act.† The Wymondham houfe takes the medium between thefe two extremes.‡ Wafte it may well be called. I fufpected as much at the time of writing the letters. I fpeak now with decifion, and upon the cleareft views. In respect of health, height of ceiling is no otherwife of use than as a fort of fuccedaneum to or means of ventilation. In either view it is befide the purpofe: as a fuccedaneum, inadequate; as a means, unneceffary. If your air in-

* Supra, p. 134. + § 33. 1 Supra, p. 133.

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deed is never to be changed, the more you have of it, the longer you may breath it before you are poifoned: this is all you get by height of ceiling. But fo long as it is undergoing an inceffant change, what fignifies what height you have? Take a Panopticon Penitentiary-houfe on one hand, and St. Paul's employed as a Penitentiary-Cell, on the other. Let the Panopticon, aired as here proposed to be aired, and warmed as here proposed to be warmed, contain 4 or 500 prisoners. Let St. Paul's, hermetically closed, have but a fingle man in it. The Panopticon would continue a healthy building as long as it was a building ι in St. Paul's the man would die at the end of a known stime, as fure as he was put there.*

In the letter on Hofpitals, the Reader may recollect what is faid in commendation of an idea of Dr. Marat's with respect to swentilation, and the form of confiruction proposed by him in confequence. What he fays is very jude as far as it goest but the truth is, that follong as proper air holes are made, and proper means employed for determining the air to pass through them, where is no form but may be made as ventilative and by that means as healthy as his. At that time I had never experienced the heart-felt fatisfaction I have fince enjoyed, of visiting a London Hofpital. I had not then feen either St. Thomas's or Guy's. I had no idea of the timple yet multiplied contrivances for enfuring an unremitted yet impertentible change of air, not the expelsive purity and falubrity that is the result of them. If 1 had, 1 thendid little have thought of fending Englishmen to France, or any ether country, for Hofpital practice or theories of ventilation.

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In this one article we may fee almost a half added to the expence in wafte. Ten foot from floor to ceiling, when lefs than feven foot would ferve ! When lefs than feven foot does ferve, and ferves to admiration. I am almost ashamed of the eight foot I ask: it is for the mere look's fake that I ask it. The experiment has been tried : the refult is known, though not fo well known as it ought to be. Have the bulks ten foot of height? have they eight foot? have they feven? I look at Mr. Campbell's hulks, and to my utter aftonishment I fee that nobody dies there. In these receptacles of crowded wretchedness, deaths should naturally be more copious than elsewhere. Instead of that, they are beyond comparison less fo .--- I speak from the Reports .----- I know not the exact proportion : my fearches and computations are not yet compleat: but as to fo much I am certain. I fpeak of the ordinary rate. Now and then indeed there comes a fad mortality-Why ?- because where peftilence has been imported, hulks neither do nor can afford the means of stopping it. But, bating peftilences, men are immortal there. Among 200, 300, quarter after quarter, I look for deaths, and I find none.----Why?----becaufe Mr. Campbell is intelligent and careful, Pandora's cordials unknown there, and high ceilings of no ufe.

This experiment is new matter: it is no fault of the legiflators of whom I fpeak not to have made use of it. In their time it did not exist. How should it? It was this very statute of theirs that produced it. While they were building their Penitentiary-Castle withone hand, they little thought how with the other they were cutting the ground from under it. The information does exist now: the fault will be not theirs but that of their succefors, if, like the Wandfworth purchase, the knowledge thus acquired lies in waste.

Mention not the mortalities; it is impoffible they can have had the low ceilings for their caufe. The mortalities have been rare: for thefe three or four years none: from that period immortality begins. Have the ceilings been higher fince that time; Had Captain Cook ten foot, eight foot, feven foot between decks? Captain Cook, under whom in a voyage that embraced all the climates of the globe, out of 80 men not a fingle one died in a fpace of between four and five years:* out of 112 in the fame time but five, nor of thofe more than two in whom the feeds of death had not been fown before their embarkation.

What was your National Penitentiary-houfe to bave coft?—£120,000.—How many was it to have

• Four years, two months and 22 days. See Cook's Second Woyage. Introduction.

END OF PART I.-POSTSCRIPT.



