## $\left[\begin{array}{ll}72\end{array}\right]$

beft in Europe, will demonftrate the truth of thore principles by well chofen and by the beft conducted experiments. For botany, he can no where find a more able profeffor than Dr. Gouan. The lectures in every fcience are free for all the world; it being a maxim with the French, that wifdom fhould open wide her gates, and, without diftinction, receive all who wifh to enter.

During my progrefs through the vineyards, I obferved that vines are every where valued in proportion to their age. The expence attending the plantation and cultivation of a new vineyard is fo great, that upon a good foil, and in fituations eafy of accefs, corn is a more profitable produce.

The beft wine was fold in this vicinity laft autumn for one halfpenny a quart, and wine for brandy was much cheaper. The abundance was fo great, and the demand fo difproportionate, that they were obliged to diftil the major part of their wines for brandy. Moft of this will be fmuggled into England. From the port of Cette alone, laft year, there went upon this trade thirty-two veffels, which, at three hundred

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tons each, a tox containing two hundred and fifty-two gallons, makes upwards of two million four hundred thoufand gallons; and the duty upon this, at nine fillings and fix pence a gallon, would have been one million one hundred and forty thoufand pounds. All this was loft to the revenue, and much more than this muft of neceffity be loft, by the abfurd practice of laying on fuch heavy duties. It is to be lamented, that the well known operation of lowering the duties upon tea, has not opened the eyes of Europe upon this fubject, but more efpecially thofe of our government in England. We have indeed lowered the duty upon brandy to five fhillings; yet whilft it can be purchafed in France for fifteen pence a gallon, unlefs we fink the duty much lower than we have already funk it, the fmuggler, with all his loffes, will contrive to make a living profit.

Thirty gallons of wine produce five gallons of brandy; and this quantity in the vineyards laft year (1785) cof only fifty fols, or about two Chillings.

France is faid to contain one hundred millions of acres, of which they reckon that

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shat little more than one-third is in a fate of cultivation ; of this portion fomething more than fifteen hundred thoufand acres are occupied by vineyards. If we allow their population to be five and twenty miltions, we fhall have four acres for each perfon.

As every thing which relates to their finance is likely to be new modelled, I need fay little on that fubject. Few countries ftand in greater need of a reform, yet not only from the exemptions claimed by the nobles and the clergy, but from the privileges retained by many of the provinces at the time of their union to the reft, it will require either a ftrong hand, or moft propitious circumftances, to accomplih this arduous undertaking. A nobleman of Berry told me, that on one fide of a rivulet which flows by his chateau, falt is fold at forty fols a bufhel, and on the other at forty livres, that is, at twenty times as much. In confequence of this, no lefs than two thoufand troops of horfe and foot were ftationed on its banks to check the fmugglers. The farm of falt was fifty-four millions of lives,

The

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The whole revenue being twenty-five millions fterling, each perfon pays twenty fhillings annually to the fate for its protection. If we reckon the revenue of England at fifteen millions, and the population at feven and an half, then each perfon will pay forty fhillings.' The people in France, it is true, have paid lefs in proportion to their numbers than the Englifh, yet they have fuffered more than in the fame proportion from the tyranny, vexations, and oppreflion of the farmers general, to whom they have been often fold,

The price of labour, taking the average of France, may be confidered as two and twenty fols, or eleven pence per day for men, and ten fols for women, employed in manufactures; yet a good weaver, working eighteen hours a day, will earn three livres ten fols for himfelf and boy; fhearmen will get two livres a day; fpinning women four livres a month, and their board, deducting holidays; carpenters and mafons, twenty-four fols, and two meals a day. In hufbandry, the men get in winter from ten to fourteen fols a day, with a foup at noon; but in fummer, from twenty to twenty-fix $\mathrm{fols}_{3}$

## [ $7^{6}$ ]

fols, and two meals a day. The women have half as much.

Converfing with gentlemen of the medical profeffion in France, I fee clearly that they have not made the fame advancement in the fcience of medicine as gentlemen who have been educated at Edinburgh. The French are fond of Boerhaave, and fo devoted to Hippocrates, that I am perfuaded, in the cafe of fevers, they often, whilft looking for the crifis, lofe the patient. They have almoft univerfally a dread of the antimonial preparations; and when they venture to give the tartar emetic, it is in fo fmall a dofe as feldom to do much good. In the year I 566 , the parliament of Paris forbad the ufe of antimony; and although, in 1624 , this prohibition was reverfed, the fear which had been excited and kept up for more than half a century, continued to operate againft this powerful medicine. Whilft in Germany and England the fcience has been advancing with the moft rapid progrefs, the French phyficians feem to have been creeping into day with all the timidity of doubt. One obvious reafon may beaffigned for this. With us the practice of medicine

## $\left[\begin{array}{ll}{[77}\end{array}\right]$

medicine leads to wealth and honor, whereas in France it leads to neither; the fees are contemptible, and, excepting in Paris, the profeffion is defpifed.

On the fixth of April I left Montpellier at five in the morning, with a volantier of Barcelona, having previoufly agreed with him for the ufe of his volantè. The common price is fix livres a day, but a young traveller muft not be offended if the volantier fhould ank twelve, and clofe the agreement with him at nine. In this little light machine, with one good mule, you travel sight or ten leagues a day.

From Montpellier to Pezenas is eight leagues. The foil is fandy. The rock is - limeftone. The fields are open, and produce corn, wine, and oil. At Pezenas are to be feen the extenfive ruins of a caftle, which belonged to the Montmorency family. This ftrong fortrefs was hewn out of the rock on which it ftands, and appears to have been complicated and full of art. The walls are lofty, and about eight feet in thicknefs. The rock, which is perpendicular, is a mafs of fhells, fuch as turbine, oyfters, cockles, with a calcareous cement.

## $\left[\begin{array}{lll} & 78 & ]\end{array}\right.$

From hence the circumjacent plain, decked with luxuriant verdure, and fhut in by rug* ged mountains, affords a moit delightful profpect.

The next day we dined at Beziets, a city into which the canal of Languedoc is conftantly conveying the wealth which flows from agriculture. Here the corn, the wine, the brandy, the olives, and the oil of a country formerly beyond the reach of commerce, find a ready market; and from hence all that tract of country is fupplied, at a fmall expence of carriage, with the productions of diftant nations.

Between Pezenas and Beziers, but nearet to the former, there is a ftratum of pudding ftone, of which the charge is hard blue fchif, retaining the angles and the edges, yet fparingly fcattered in a calcareous cement. Ncarer to Beziers the limefone carries turbinæ, cockles, mufcles, oyfters, and fcallops, deeply indented, and well defined.

In the afternoon we came early to Narbonne, having travelled eight leagues and an half this day. The leagues are of an uncertain

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uncertain length, fome about three miles, others four.

All the way from Beziers we traverfe a rich country, and corn fields, fhaded with vines, olives, mulberries, and almonds, forming at every ftep the moft enchanting views.

At Narbonne there is a little fream, which, by the induftry of the inhabitants, proves to them a more certain fource of wealth than if its fands were gold.

This ftream empties itfelf into a canal of more than half a mile in length, by the fide of which thay have extenfive gardens, watered from it by hydraulical machines of remarkable fimplicity.

They confift of a vertical wheel of twenty feet diameter, on the circumference of which are fixed a number of little boxes, or fquare buckets, to raife the water out of a well, communicating with the canal below, and empty it into a refervoir above, placed by the fide of the wheel. There buckets have a lateral orifice to receive and to difcharge the water. The axis of this wheel is embraced by four fmall beams, croffing each other at right angles, tapering

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tapering at the extremities, and forming eight little arms. This wheel is near the centre of the horfe walk, contiguous to the vertical axis, into the top of which the horfe beam is fixed; but near the bottom it is embraced by four little beams, forming eight arms fimilar to thofe above defcribed, on the axis of the water wheel. As the mule, which they ufe, goes round, thefe horizontal arms, fupplying the place of cogs, take hold, each in fucceffion, of thofe arms which are fixed on the axis of the water wheel, and keep it in rotation.

This machine, than which nothing can be cheaper, throws up a great quantity of water, yet undoubtedly it has two defects: the firft is, that part of the water runs out of the buckets and falls back into. the well after it has been raifed nearly to the level of the refervoir; the fecond is, that a confidetable proportion of the water to be difcharged is raifed higher than the refervoir, and falls inso it only at the moment when the bucket is at the higheft point of the circle, and ready to defcend.

Both thefe defects might be remedied

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with eare, by leaving thefe fquare buckets open at one end, making them fwing on a pivot fixed a little above their centre of gravity, and placing the trough of the refervoir in fuch a pofition as to ftop their progrefs whilt perpendicular, make them turn upon their pivot, and fo difcharge their contents.

From the refervoir the water is conveyed by channels to every part of the garden; thefe have divifions and fubdivifions or beds, fome large, others very fmall, feparated from each other by listle channels, into which a boy with his flovel or his hoe directs the water, firf into the moft diftant trenches, and fuccefiively to all the reft, till all the beds and trenches have been-either covered or filled with water.

Nothing can furpafs the luxuriance of their crops, nor the activity of thofe who are here engaged in the cultivation of the foil.

In this delightful walk, taking notice of fome bees who were returning loaded to the hive, I recollected that Narbonne was famous for its honey, and therefore deter-

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mined to talte it before Ileft the city. For this purpore I called at an apothecary's, who is reported to keep the beft and to fell the moft. His name is Dartiguelongue. The honey, which he produced, was delicate in its flavour, and beautifully white. This at Narbonne he fells at fifteen pence a pound, and when it is for England, he configns it to a merchant at Cette.

The day following we travelled eleven leagues and an half, to Perpignan, the laft city of any confequence in France. It is faid to be well fortified, but of that I can form no judgment.

The foil all the way is fandy. The rock is calcareous, and many of the mountains are covered, even to their fummits, with vaft maffes of limeftone which have rolled.

The whole of the Roufillon is rich, and highly cultivated, even to the foot of the Pyrenees, abounding with corn, and wine, and oil, and filk, all of the beft quality. The bleak and rugged mountains before us, at the diftance of about shree or four leagues, forming a friking contraft with the rich valley which they command. Even thefe

## $\left[\begin{array}{ll}8_{3}\end{array}\right]$

thefe mountains are not fuffered to remain uncultivated, but to a confiderable height they feel the influence of increafing capitals, enriched by the growing wealth of the more fertile plain. Winding up through the gorges of the mountains, you fee vines and olives flourih in every fpot where induftry can place them; and, wherever the plough cin go, you admire the luxuriance of the corn.

The views all the way up the Pyrenees are beautiful. As you approach their fummit, Belgarde prefents itfelf, feated on a mountain eminent above the reft, and commanding this pafs for a great extent. This fortrefs, the laft in the French dominions, is more remarkable for ftrength than beauty.

All through the Roufillon, it is ftriking to fee the people carrying earth in little bafkets on their heads, for want of wheelbarrows. For the prevalence of this ferange practice I can affign no caufe, unlefs it be taken from the mountains, where no better mode of conveying earth up the fteep afcent can be devifed. Men are every where more inclined to imitation than to G 2
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the fatigue of thinking, or of fecking for new inventions.

The ploughs they ure are fuited to the foil, and fimilar to thofe defcribed already in coming up from the Rhone.

In this country your dine for two lives at the table dHote, and fup for forty-five fols, including bread, wine, and bed.

As you approach the borders, the officers of the doiliane become more numerous, and, wullefs well fee'd, moft impertinent and troublefome. Notwithitanding their numbers and their wigidance, the contraband trade is very brifle. They reckon more than Afteen hevdred fmugglers in the Pyrezecs; men of defperate reflution, who, knowing the cruel pubithments to which they thall be condemned if taken, travel well armed, and genetally ini ftrong parties. A military force is fometimes fent againft them, but to litile purpafe, as neither party is ever eager to engage. The fmugglers, Arangers to ambition, and little influenced by the thirft of inilitary fame, without reluctance quit the field; and, unlers when their fuperiority is manifeef and great, think only of fecaring their retreat; whillt

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the foldier, regarding this fervice as both dangerous and difgraceful, has no inclination to the attack.

When thefe daring adventurers have the misfortune to be taken, fome of them are hanged, fome are broken upon the wheel, and fome are burnt alive. How thocking to humanity, that governments by their bad policy fhould lay fuch fnares for men! how eafy would it be, by a different fyftem of taxation, to fave thefe lives, to avoid there cruelties, to employ in profitable labour both him who is engaged in fmuggling, and thofe who are paid for watching him, to open a free communication with all the world, and thereby to cherifh and promote the induftry, the wealth, the happinels of every commercial nation upon earth. As long as the governments of Europe fhall continue to foment the fubfifting jealoufies of trade, and, by heavy duties, to hold forth high premiums to the fmuggler, each muft fuffer in its proportion, each will be checked and reftrained in the progreis of its induftry and wealth, each will abound with unprofitable fubjects, and not one of them will be able to enforce a due obfer-

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vation of the laws. It is much to be lamented, when light is every where diffufed, and when the eyes of Europe feem open to receive it, that light fhould be diffuled in vain, and that fo little fhould have been done by any nation to break thofe fetters, which ignorance, in the dark ages of feudal anarchy, every where impofed upon cone merce.

## J O U R N E Y

FROM THE

## ENTRANCE of SPAIN to BARCELONA.

NO one, who has not himfelf experienced it, can conceive the fatisfaction and delight with which a traveller looks down upon a country into which, for the firft time, he is about to enter. Every thing attracts his notice, and his attention is pleafingly engaged by a rich variety of forms and productions, of manners and of men, with which he had been unacquainted; and which, in proportion as he values knowledge, will at every fep increafe his treafure. The face of the country, the vegetable tribes, the animals, all are new, or at leaft have fomething new to him; and even thore with which he is moft familiar, G4 from

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from peculiarities, for which they are in, debted to the foil, or to the climate, ftrike him with new beauties; or, fhould they have no claim to beauty, at leaft they have to him the charms of novelty.

Upon my firft entrance into Spain, after I had caft my eyes around to catch a general view of the country immediately before me, my attention was foon taken up with a. phenomenon, which at the time was, new to me. In afcending the Pyrences, after I had loft fight of the limeftone, I faw nothing but fchift to the very fummit of thefe mountains; and pleafed myfelf, as I looked back upon the country, which I had left behind me, to fee how much it was indebted to this happy mixture of the limeftone and the fchift for its luxuriant crops. Thefe rocks, elevated to the higheff regions, expofed to the joint action of froft and rain, broken to fhivers and reduced to powder, driven by winds, or hurlied down by torrents, the mouldering fchift producing clay, the limefone its calcarcous earth, and each of there contributing the fand which it contained, unite their treafures to enrich all the country below

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below them with a never-failing fupply of marle.

Thus far I met with nothing to furprife me ; but, after I had pafied the fummit of the mountains, and having entered Spain, began defcending to the fouth, expecting to meet more enchanting fcenes, more luxuriant crops, and figns of greater wealth ; the face of the country immediately before me appeared defolate and barren, without one cheerful fpot in view, on which the mind could reft.

I muft own I was at firt inclined to attribute this difmal afpect to their want of induftry, to fome vice in their government, or to fome error in their political œconomy ; but, upon examination, I foon difcovered the real caure of this barrennefs, in the hungry nature of the foil, and the want of thofe two ineftimable feeders of vegetation, the limeftone and the fchift, which near the fummit are feen only to the north; for the moment you begin defcending to the fouth, the rock changes, and you find the granite.

This circumftance is not peculiar to the Pyrences; it is obferved on other lofty chains

## $\left[\begin{array}{ll}{[0} & \end{array}\right]$

chains of mountains, and, as highly worthy of attention, may hereafter call for a particular difcuffion. The foil, which arifes from the decompofition of granite, is not friendly to vegetation ; for although it contains all the component parts of marle, yet the fand predominates, and the clay is in fuch fmall proportion, that the rains and dew contribute little to nutrition, paffing quickly through the fand, or being foon evaporated, and loft in air. The proportion of thefe ingredients, which has been found mon productive, is to have equal parts of clay and of calcareous earth, with one quarter of the whole a clean filicious fand. This proportion has been afcertained by the experiments of M . Tillet, as may be feen in the memoirs of the academy of fciences for the year 1772 .

It is impoffible to pafs the Pyrenees withous admiring the wifdom of the treaty, A. D. 1660 , to which they have given náme, as having fixed the moft natural of all boundaries, the ocean alone cxcepted, between two great commercial nations. There was a period when rivers made the mof

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obvious limits of an empire; but in a ftate of civilization, thefe change their nature, and are confidered by all nations as the mof valuable parts of their poffeffions; whereas the fummits of mountains, as abounding with paffes eafy of defence; form a ftrong barrier againft a powerful neighbour, and a barrier which is naturally determined by the parting of the waters; and thefe fummits being little fufceptible of cultivation, leave a convenient face between the profitable poffeffions of the two adjoining nations.

The only ufeful vegetable productions of thefe high mountains are the ilex, and the cork tree ; the latter very profitable on account of its bark.

When thefe are fifteen years old, they begin to be productive; yet not for the market; this maiden bark being only fit for fuel. At the end of eight years more, the bark improves, but does not arrive at its perfection till the third period; after which, for one hundred and fifty years, it yields a marketable commodity every ten years. The feafon for barking is in July

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or Auguff, when they take fecial care not to wound the inner bark.

From Perpignan to junquera, a village of fix hundred and twenty-feven fouls, and the firft you mees with after yow enter Spain, is feven leagues, or four French pofts.

Here the inns begin to exhibit their wretchednefso. No bedfecads, but only three boards laid upon treftes to fuppart a mattrefs ; no bed curtains; no glars in she windows.

It is curious to fee the peafants excercife their ikill in drinking without touching the mouth of the bottle with their lips; and the height from whichs they let the liquid fall in one continued fream, without either miffing their aim or fpilling a fingle drop, is mofe furprifing. For this purpofe, the orifice of the fpout is frmall, and from their infancy they learn to fwallow, like the Thracians, with their mouths wide open. See Horace, Lib. z. Ode 36.

On the tenth of Aprik, early in the morning, we left Junquera, paffing for a confiderable way by the fide of a rivulet, which in winter is a raging torrent. The foil, as might

## $[931$

might be well expected, is hungry fand. The cultivated land is covered with vines, swith olives, and with rye; she uncultivated abounds in cork trees. At the feet of the Pyrences we find an extenfive valley, every where fhut in by mountains, excepting only a fmall opening to the fea, which is near Caftillon de Empurias, in the Bay of Rofes. In this extenfive plain, or rather bafon, which, as we look down upor it, feems flat and level, are many bills, come rifing bold, fome gently fwelling, and covered with various kinds of foil, but chiefly with decompofed granite, which from local circumftances has acquired more than ite due proportion of clay, and thereby rendered the barren quartz exceedingly produCtive.

From Junquera we have three leagues to Figueras, a town of four thoufand fix hundred and forty fouls, where the Spaniards are now crecting a fortrefs, fuppofed to be impregnable. Of its furength I am not qualified to judge; but for beauty I cannot conceive any thing to go beyond it. It contains quarters for one hundred and fifty companies of infantry, with five hundred horfe;

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fiorfe; apartments for fixty officers, each with a kitchen, a dining room, and two fpacious bed rooms; one long range of magazines for provifions, and four for powder; all upon a great fcale, and highly finified. Thefe works are made bomb proof. To fupply the garrifon with water, there is a capacious refervoir under the parade, formed in the quarry from whence was taken all the fone for thefe extenfive buildings. The glacis, in moft part of the fortification, is formed of the living rock, and the whole is protected by proper baftions. It is faid, twelve thoufand men will be fufficient to defend thefe works. At prefent there is a hill which commands the fort, but this the patient and perfevering induftry of Spaniards will certainly rernove, or at leaft reduce below the level of their works.

It would be difficult to afcertain how much labour has been loft in the eftablifhment of this ftrong hold; but we may venture to affirm, on the authority of thofe who are competent to judge, that had the fame fums been expended in the cultivation of the foil, in the eftablihment of

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farms, in making canals, and mending roads, to invite ftrangers into Spain, inftead of building fortifications to keep them out, the face of the whole country had been changed, not merely in point of beauty, but of ftrength. The folly of all offenfive wars begins to be underftood in Europe, but more efpecially in France; and as for defenfive war, the refiftance of America, by its fuccefsful iflue, and that of Corfica, which although not fuccefsful, coft the French five times more than the value of the conqueft, prove that a country tolerably ftrong in itfelf, and well defended by its inhabitants, needs no fortification to repel invaders.

Extenfive fortifications coft immenfe fums to erect, and fo much to keep them in repair, that they are commonly fuffered to decay. Every fuch fortrefs requires an army to defend it, and when the moment of trial comes, the whole may depend on the weaknefs or treachery of a commander, and, inffead of a defence to the country, may afford a lodgment to the enemy. If an able man happens to command, admitting the country to be both well peopled and well

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well governed, may not more be expected from him in the field than in the fortrefs? The moft obfinate refiftance the Romans met with was from a city that had no walls. In a difcourfe of Baron Hertzberg not long fince publifhed, we may fee what was the opinion of the late king of Pruffia on this fubject; for, whilft he expended trifling fums on his fortifications, he was at a vaft expence in promoting agriculture and manufactures in his dominions; having, in the fpace of a few years, built five hundred and thirty-nine villages, and cftablifhed in them forty-two thoufand fix hundred and nine families, on the banks of the Oder, the Havel, and the Elbe; befides three thoufand families on the Netz and Warthe.

Fortifications are only needful for the maintainance of ufurped dominion, or to protect the borders of a kingdom from the incurfions of a barbarous nation, whofe object is to plunder.

The price of provitions at Figueras is remarkable : beef and bread are each about three halfpence fterling per pound, troy weight, but mutton is nine penee. The

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reafon of this difparity is, that they plough with oxen, and have few theep.

Between this town and the Col de Oriol, the rock, wherever it appears, is limeftone.

From Figueras to Gerona is feven leagues. About half way between thefe places, we pafs over a high mountain, called la Cuefta Regia; in afcending which we find a bafe of pudding ftone, whofe charge is fmooth, rounded, filicious gravel, with a calcareous cement; the top and all the middle region is fchift ; but in defcending near the bottom, the fame pudding fone appears again; from which I conclude that this kind of rock pervades the mountain, and forms its bafe. This phænomenon is worthy of attention, and defcrves a more minute inveftigation and defcription than a hafty traveller can befow upon it.

The fituation of Gerona is delightful; on a declivity, looking to the S.W. and fed by a rich well watered valley, which is open to the meridian fun, but bounded to the North and to the Eaft, and fheltered Vol. I.

## $\left[\begin{array}{ll}98\end{array}\right]$

by high mountains. The whole city feems to be built of the pudding ftone.

The foil is fand and clay, productive of all kinds of grain; fuch as beans, peas, lum pines, wheat, and barley, with faintfoin and clover. This land they dig with tridents or three pronged forks, and till with oxen. The ploughs are fuch as I have before defcribed, with this difference, that they have only one handle, and inftead of pins, they have two iron wings fixed to the fhare, extending beyond the heel, to fupply in fome meafure the place of mould-boards.

All the way to Mataró, the foil, and even the fand of the fea fhore, is nothing but the quartz and mica of decompofed granite ; which, when not robbed of its clay, is made productive.

Nothing is more common than to jump at a conclufion; but if, without fubjecting myfelf to fuch a charge, I might venture to hazard a conjecture, I fhould be inclined to think, that wherever vitrefcent fand appears, whether on the fea fhore, or on calcareous mountains it comes from granite.

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After having travelled four leagues and an half from Gerona, we arrived at Granotta, where we ftopped to dine. Within three leagues and an half of Calella, the face of the country changes; for here, leaving the valley, we afcend once more the mountains, which, as I expected, are granite. This variety is pleafing, for, although they are fcarcely fufceptible of cultivation, except for vines, nature has by no means neglected them, but with more than common liberality has clothed them with perpetual verdure, and given them in great abundance the elegant arbutus, with a rich variety of flowering fhrubs and aromatic herbs.

Having paft thele ever fragrant mountains, we defcend again into a valley, which is protected from the incroachments of the fea by lofty cliffs. In this valley we crofs a river, which fhews the nature of the eountry through which it flows; for, although at prefent it contains little water, and may be forded without danger, yet, after hafty fhowers, it rages with ungovernable fury, and carries every thing before it. The valley being flat, and the foil,

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to a confirierable depth fharp fand, without any natural cohefion, the torrents, unconfined by banks, have widened their channel to the extent of near a quarter of a mile. This fand is evidently derived frem granite, freed perfectly from clay by conftant wafhing.

Having paffed the river, not far diftant from its mouth we afcended a hill, from whofe fummit we looked down upon a fea coaft, where all nature wears a fmiling afpect. Throughout the whole tract of country we left behind us, the vines had not begun to bud, and the birds were filent on the mountains; but here the vines fhewed long branches with bloffoms and young fruit, whilft the birds feemed to vie with each other, which fhould charm the ear with moft delightful melody. The little hills were covered with vines and olives, and the fea feemed all alive with fifhing boats. From this delightful fpot numerous villages appear as far as the eye can reach.

In one of thefe, Calella, which, according to the genius of the Spanifh language; is pronounced Callelia, we took up our lodging

## [ IOI ]

lodging for the night. It has eight hundred and eighty-fix fouls, and employs near fifty fifhing boats.

The next morning, when we fet forward on our journey, about five, I was not a little ftruck to fee children, with old men and women, each carrying a little bafket, watching, precifely as in the fouth of France, for the dung of mules and horfes which were paffing by. This practice, whilf it implies poverty of foil, evidently proves that for induftry at leaft they deferve highly to be praifed,

The conduct of farmers in the weft of England is the reverfe of this. Their dependance for manure being wholly on fand and weeds, the produce of the ocean, they neglect the more obvious fource of plenty to be derived from cattle. They fet a proper value upon what the Catalans defpife; but, in return, thefe are careful to collect the treafure which the others fuffer to be loft; whereas the true wifdom would be to avail themfelves of both.

In going from Calella to Mataro, four leagues, the way is wholly by the fea fide;
the

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the firft part of it over granite rocks, the latter on the beach.

Mataro, a flourifhing fea port of nine thoufand fix hundred and feventy-nine fouls, has, for its loyalty and attachmentto the prefent family, been made a city. Here are three convents for men, and two for women, with one general hofpital. It gives employment to nineteen looms, fixteen ftocking frames, makes much lace, prints linens for America, and is diftinguilhed for the excellence of its red wine. Scarcely one idle perfon is to be feen. It is however to be lamented, that fo much of their labour fhould be lof by thofe who are engaged in weaving ribbons; for inftead of making many at the fame time, all their looms are fingle. If this proceeds from ignorance, government fhould take care to have them better taught; if it is the effect of prejudice, they fhould be allured by premiums to become greater ceconomifts of time.

All through Catalonia you admire at every ftep the induftry of the inhabitants, who, working early and late, give fertility to a foil which naturally, except for vines,

## $\left[\begin{array}{lll}103\end{array}\right]$

is moft unproductive; but when you come to Mataro, you are perfectly enchanted. The farms are fo many gardens, divided every where into beds of about four feet wide, with a channel for the paffage of the water to each bed. Every farm has its Noria, a fpecies of chain pump, which, from its extreme fimplicity, feems to have been the invention of the moft remate antiquity. By means of this machine they every morning draw a fufficient quantity of water from the well for the fervice of the day, and in the evening diftribute it to every quarter, according to the nature of their crops. The refervoirs, into which they raife the water, are about twenty, thirty, or even forty feet fquare, and three feet high above the furface of the ground, with a ftone cope on the wall, declining to the water, for the women to wafh and beat their clothes upon. The foil is fo light, being nothing but fand from the decompofition of the granite, that they plough with two oxen or one horfe, or even with a mule; yet, by the affiftance of the water, it is made fertile, and produces on the fame fpot of ground corn, wine, oranges, and

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olives. The American aloe is here planted as a fence.

When we drew near to Barcelona, we had to crofs a river, in which we counted fifty felons, clothed in green, and employed in clearing the channel, whilft centinels ftationed at convenient diffances prevented their efcape.

It is curious to obferve this mark of contempt for the Moors, in clothing their vileff criminals, and even their hangman, in green, the facred colour of Mahometans, more efpecially in Africa.

All the way from Montpellier to Belgarde; the road is wide, and kept in excellent repair; but from the entrance into Spain to within about two leagues of Barcelona nothing feems to have been done fince the foundation of the world, either to expedite the progrefs of a traveller, or even to focure his fafety, fhould he have occafion to pafs this way. Although to an Englifhman thefe roads mulf appear deteflable, yet if we look back thirty or forty years, to the time when moft of our provincial roads were in the fame condition, and reflect how much has been done within that
> period,

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period, we may hope that the induftry of Catalans will not overiook an object of fo great importance; and that our children, who vift thofe delightul regions, will pars through them with lefs hazard and more comfort than their fathers did before them.

The vernal fun, fouth of the Pyrenees, is reviving to the traveller; but the feafon of lent has one circumftance attending it, which, in a catholic country, is not perfealy agreeable, nor indeed conducive to his health; for, during thefe forty days of abfinence, he mutt learn to live on fifh and vegetables; becaufe, although in Spain they have now four days in the week, in which, by feecial indulgence, they may eat fiefh, few people are inclined to ufe this privilege.

The accommodations, if not in lent, are more than tolerable, and cheaper than either in England or in France. You pay for a volanté, with a good mule, attended by a guide, five fhillings a day, without further charge; fifteen pence for dinner, without any limitation in quantity of wine; twenty pence for fupper and your bed; and,

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and, in the morning, two pence for chocolate. Thefe being the regular and fated prices, leave no room for difputing with the landlord, as the moft patient are fometimes obliged to do in France.

In all this country oxen draw heavy loads on the high way, and move with fpirit.

## BARCELONA.

IN this journey I' made the greater fpeed, in order to fpend the holy week at Barcelona; and I have no reafon to repent the pains I took to be prefent at their folemnities. No citizens perhaps beftow fo much expence, and no magiftrates can pay more attention, than the citizens and magiftrates of Barcelona, in the proceffions of the holy week.

On Wednedday, the I 2 th of April, I arrived, and the next morning early I vifited the churches, to fee the preparations they had made for the entertainment of the evening, in which they were to reprefent the laft fufferings of the Redeemer. In

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every chiurch I found two images, as large as life, diftinguilhed from the reft as being ftationary, and the more immediate objects of their devotion; the one reprefenting Chrift as taken from the crofs, the other the Virgin in all her beft attire, pierced by feven fwords, and leaning over the recumbent body of her fon. Behind thefe images, a theatre with colonades, fupporting a multitude of wax tapers, dazzled the fight, whilf the ear was charmed by the harmonious chaunting of the choir,

More than a hundred thoufand perfons all the morning crowded the ftreets, hurrying from church to church to exprefs the warmth of their zeal, and the fervor of their devotion, by bowing themfelves in each, and kiffing the feet of the moft revered image. The fpectators were chiefly natives of the city, but many upon fuch occafions refort to Barcelona from the numerous adjacent villages, and fome from diftant provinces.

Towards the clofe of day the pageant appeared, moving with flow and folemn pace along the ftreets, and conducted with the moft perfect regularity. The laft fup-

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per of Chrift with his difciples, the treachery of Judas, attended by the priefts, together with the guards, the flagellation, the crucifixion, the taking from the crofs, the anointing of the body, and the burial, with every tranfaction of the clofing fcene, and the events fubfequent to the paffion of our Lord, were reprefented by images large as life, placed in proper order on lofty flages, many of which were elegant, and all as highly ornamented as carving and gilding, rich filks, brocades, and velvets, with curious embroidery, all executed by their moft ikilful artifs, could render them. No expence was fpared either in the materials, the workmanhip, or the wax lights, which, with the moft fplendid profufion, were confumed upon this occafion. Each of thefe flages was fupported on the fhoulders of fix men, who were completely hid by a covering of black velvet hanging round the margin of the flage, and reaching nearly to the ground. This proceffion was preceded by Roman centurions clothed in their proper armour; and the foldiers of the garrifon brought up the rear. The intermediate fpace was occupied by the

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groups of images above defcribed, attended by eight hundred burgeffes, clothed in black buckram, with flowing trains, each carrying a flambeau in his hand. Befides thefe, one hundred and fourfore penitents engaged my more particular attention. Like the former, they carried each a flambeau, but their drefs was fingular, fomewhat refembling that of the blue-coat boys of Chrift's hofpital in London, being a jacket and coat in one, reaching to their heels, made of dark brown thalloon, with a bonnet on their head, like what is called a fool's cap, being a cone covering the head and face completely, and having holes for the eyes. The defign of this peculiar form is to conceal the penitents, and to fpare their blufhes. Thefe were followed by twenty others, who, either from remorfe of confcience, or having been guilty of more atrocious crimes, or for hire, or with the moft benevolent intention of adding to the common fund of merit for the fervice of the church, walked in the proceffion bare footed, dragging heavy chains, and bearing large croffes on their fhoulders. Their penance was fevere; but, for their comfort,

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comfort, they had affigned to them the poft of honour ; for immediately after them followed the facred corpre, placed in a glafs coffin, and attended by twenty-five priefs, dreflied in their richert robes. Near the body a well chofen band with hautboys, clarinets, French horns, and flutes, played the fofteft and moft folemn mufic. This part of the proceffion wanted nothing to heighten the effect. I am perfuaded that every one who had a foul for harmony felt the ftarting tear.

In the proceffions of the prefent day, practices, which had crept in, when chivalry prevailed, with all its wild conceits, practices inconfiftent with found morals, and offenfive to humanity, are no longer to be feen. The civil magiftrate, interpofing his authority, has forbidden, under the fevereft penalties, abominations which, as the genuine offspring of vice, could not have ventured to appear, even in the darkeft ages, unlefs in the difguife and under the fanction of religion. The adulterer, if he will court the affections of his miftrefs, no longer permitted publicly to avow his parfion, to fourge himfelf in her prefence, and

## [ III ]

and by the feverity of his fufferings to excite her pity, muft now feek the fhade, and if he feels himfelf inclined to ufe the difcipline, it mult be where no human eye can fee him. In thefe ages of fuperior knowledge and refinement, men Jook back with wonder at the ftrangely inconfiftent conduct of their progenitors, when, ignorant of every thing but arms, they embraced and carried with them a religion whofe influence they never felt, and the purity of whofe precepts they did not underftand. It was not in Spain only that fuperftition reared her throne, all Europe acknowledged her dominion, and in every nation in which the victorious banner of the Goths and Vandals was difplayed, we have feen execrable vices cherifhed in the fame breaft which appeared to glow with fervid zeal for the glory of God, at leaft as far as could be teftified by the molt ftrict attention to the ceremonials of religion. All Europe is emerging from this fate of Gothic ignorance, and Spain, although the laft, it is to be hoped will not be the leaft enlightened.

When the pageant was over, the people

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retired quietly to their habitations; and although more than a hundred thoufand perfons had been affembled to view this fpectacle, no accident of any kind was heard of. The day following, before eight in the morning, another procefiion of the fame kind, but more elegant than the former, was conducted through the flreets, and in the evening, a third, at which affifted all the nobles of Barcelona, each attended by two fervants, and, in rotation, carrying a crucifix large as the life, and fo beavy, that no one for any length of time could fuftain the weight of it. The ftages and the images were not the fame, which had been ex-hibited the preceding day, but reprefented all the fame events. Every fage was completely occupied by images large as life, and furrounded by a border of open carved work fuperbly gilt; and the bearers, as in former inftances, were hid by curtains of black velvet, richly embroidered. Two hundred penitents in grey attended as before. In each of thefe proceffions were many children, fome not more than three years old, carrying little croffes, with each a flambeau in his hand. Thefe are ufed in

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all proceffions, even in the middle of the day.

The different ftages, with their groups of figures, belong to different bodies corporate, either of the nobles or artificers, and are ranged in the proceffions according to their right of precedency. Thefe groups are called the myftery of the corporation. That of the French artificers is an Ecce homo, but for fome reafon the conful walks before it, attended only by the meaneft fubjects of his nation.

The fucceeding day, at nine $0^{\prime}$ clock in the morning, when, as being Saturday, I had no expectation of fuch an event, the Refurrection was announced by bells ringing, drums beating, cannons firing, people thouting, colours flying, and, in a moment, all the figns of mourning were fucceeded by tokens of the moft frantic joy.

The proceflions were intermitted for feveral years, prohibited by government on account of abufes which had crept into them, and, in their place, the carnival was fubftituted, with the fame licentious riot and confution as I have defcribed in Paris, and as all who have paffed the carnival in VOL, I.

I Italy

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Italy have feen. But after the inhabitants of Barcelona; in the year 1774, had refifted the demands of government, requiring them to draft every fifth man for the army, like the other cities and provinces of Spain, the carnival was forbid, and the trade, which had been always brikk at this feafon, felt a lofs, which made the citizens call loudly for the reftoration of their proceffions.

After Eanter they have one upon a fmaller fcale; about feventy priefts, each with a lighted flambeau in his hand, preceded by a herald with his banner, carry the hoft, under a canopy of crimfon velvet, to thofe who had not been well enough to receive it in the churches.

The fteets of Barcelona are narrow and crooked, like thofe of all ancient cities. The old Roman town may ftill be diftincly traced, occupying a fmall eminence in the centre of the prefent city, with one of its gates and fome of its towers, well preferved. In this are many farcophagi, altars, images, and infcriptions, with a temple of Neptune, all which have been well defcribed by antiquarians. It was here that

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that Ferdinand and Ifabella received Columbus, returning from America, and from hence that navigator failed on his fecond expedition, in the year 1493.

In vifiting the churches of Barcelona, an obfervation is confirmed, which had occurred even in the moft contemptible of the country villages fouth of the Pyrenees, It is evident that all their decorations were invented about the beginning of the fixteenth century, after the gold and filver of America had been brought to Spain, and every altar piece, with every column, fhews that their improvement in tafte did not keep pace with their increafe of wealth. Riches came upon them by furprife, and found them unprepared to make a proper une of the abundant treafure. Hence even the compofite and the Corinthian pillars are loaded with new ornaments, and whether fluted or contorted, they are entwined by ivy or by yines, and are almoft hid by the multitude of angels fluttering round them, or by cherubs climbing up the branches; and the whole of this prepofterous affemblage is coyered with one glate of gold. The prefent generation is en-

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## [ 116 ]

lightened, and their tafte is much refined; yet they want refolution to reform abufes, and to ftrip off thofe ornaments, to which the blind zeal and devotion of their forefathers have given fanction. One of their beft writers has remonftrated, and his remonftrances have engaged the attention of government to make wife regulations for the future.

They have in this city an academy for the noble arts, open to all the world, in which all who attend are freely taught drawing, architecture, and fculpture, under the direction of D. Pedro Moles, and others, who, like him, excel in the branches they profefs. For this purpofe, they have feven fpacious halls, furnifhed at the king's expence with tables, benches, lights, paper, pencils, drawings, models, clay, and living fubjects; they afiemble in the morning from ten to twelve, and in the evening from fix to eight, in winter, and from eight to ten in fummer.

This academy is well attended; I counted one night upwards of five hundred boys, many of whom were finifhing defigns, which fhewed either fuperior genius or more than common application. It is

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not to be imagined that all there boys, or perhaps any of them, are deftined to be painters: this was not the intention of government, much lefs of count Campomanes, who fuggefted the inftitution. Moft, if not all thefe youths, are apprenticed to trades; and it is well imagined, that every other art may receive fome affiftance from this, whofe peculiar property it is to excel in imitation, Such inftitutions are much wanted in England. Not only the fculptor, the architect, and the engineer, but the coachmaker, the cabinet-maker, the weaver, nay even the taylor and the haberdafher, may derive great advantages from that accuracy of fight, and that fertility of invention, which are acquired by the practice of drawing and defigning.
D. Pedro Moles is an artift whofe works have been univerfally admired for the beauty of his ftroke, and the force of his expreffion. It is a pity that the graver was ever taken from his hand; he may perhaps be more ufefully employed in fuperintending this academy, but, as an engraver, he would have acquired a more lafting fame, and have made a better provifion for his family.

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One of the feven halls is fitted up as as nautical fchool, and is provided with every thing, which is needful to teach the art of navigation. The ftudents, who at prefent are only thirty-fix, affemble every morning from eight to ten, and every evening from three to five. Since the firft eftablifhment of this ufeful feminary, they have fent out more than five hundred pilots; qualified to navigate a veffel to any quarter of the globe.

Equally well furnifhed with the preceding, and equally well conducted is the military academy, in which are three magnificent apartments for the fudents to purfue their fudies, from the firft elements of the mathematics, to the higher branches of their profefion. This and fimilar academies, eftablifhed by the reigning monarch, are of vaft importance to the nation, as furnifhing a fulficient fupply of engineers in time of war, without the neceffity, as in former periods, of depending wholly on their allies. Thefe feminaries in Spain are the only fchools in which the mathematics can be ftudied to advantage; for although, in all the univerfities profeffors are appointed, they are faid to be wholly ignorant of this fçience,

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fcience, which they profefs to teach. V. Camp. E. P. Ap. I. p. 292.

Befides thefe inflitutions for the infruction of fuch as are deyoted to arts or arms, there are not wanting fome of more general utility, accefilible to all the citizens without diftinction. Thefe are a cabinet of nacural hiftory, and the public Hibraries, of which there are four; three general, and the other confined to medicine and furgery; the cabinet belongs to $D$. Jaime Salvador. From the reports of this collection, I had formed high expectations, but I muft confefs myfelf diffatisfied. Some thirty or forty years ago, it may have been worthy of attention, but the fcience itfelf, and the cabinets of the curious, are fo much improved, that collections, which at remoter periods excited wonder, are in the prefent day jufly regarded with cold indifference. The genetal libraries are thofe of the bithop's college, of the Carmelites, and of the Dominicans. This laft I found moft worthy of attention, as containing more modern books of value than either of the former. Among there, fome of the moft confiderable were the ruins of Palmira; Raphael's Heads, by

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Fidanza; Duhalde's China; Monumens de la Greece; Hiftoire genealogique de la Mairon Royale de France, \& des anciens Barons, par le P. Anfelme; Antichita di Etcolano; Muratori Thefaur. vet. Infcriptionum ; Numifmata Vir. illuft. ex Barbadica gente; Danubius Pannonico Myficus. Thefe may ferve to fhew that the collection is not contemptible. In fhort, whatever fudies a man may be defirous of purfuing, he will find in one or other of thefe libraries the beft books, to which he may have accefs fix hours every day, excepting holidays. In the convent of the Dominicans there is one apartment filled entirely with books prohibited by the inquifition, and, in order that no one may be tempted to perufe them, all the vacant fpaces are filled with devils cracking human bones, it is to be fuppofed of heretics. Left, however, this fight fhould not fuffice to check a prying difpofition, they are well fecured by lock and key, and no one has accefs to thefe without a fpecial licence.

In the cloifter of the Dominicans there are more than five hundred records of fentences paffed on heretics, containing their name, their age, their occupation, their


Oliver Boer. Trabajedor, heretico, condenadoen Persona. 27. de Dotober deif66.


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place of abode, the time when they were condemned, and the event; whether the party were burnt in perfon or in effigy, or whether he recanted and was faved, not from the fire and the faggot, for then he might relapfe, but from the flames of hell. Moft of there were women. The firf date is A. D. 1489 , and the laft 1726 . Under each infcription there is a portrait of the heretic, fome half, others more than three parts, devoured by devils. I was fo much ftruck with the fantaftic forms, which the painters had given to their dæmons and the ftrange attitudes of the heretics, that I could not refift my inclination to copy fome of them, when no one was walk ing in the cloifter. Some time after this, fitting with one of the inquifitors, who did me the honour of a vifit, he in a carelefs manner took up my memorandum book, and as chance would have it, opened precifely on the leaf which contained my drawings: I laughed; he coloured; but not one word efcaped from either at the time. Fifteen months after this, when I returned to Barcelona, he fmiled, and faid, " You fee that I can keep a fecret, and that we are not ftrangers to principles of honour."

During

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During my refidence at Barcelona, I had an opportunity of reeing all the caurts of the inquifition affembled in a grand procefion to celebrate the feaft of S. Pedro Martyr, their patron faint, in the church of St. Catharine of the Dominicans. Happy had it been for Chriftendons if all their feativals had been as innocent as this. It is, however, univerfally acknowledsyed, for the credit of the corps at Barcelona, that all its members are men of worth, and moft of them diftinguifhed for humanity.

Vifiting the churches at all hours, whenever any fervice was performed, I made a party with fome friends to hear a penitential fervice in the convent of St. Felipe Neri, on Friday evening of April 28. The firft part of the Miferere was no fooner ended than the doors were fhut, the lights were extinguihed, and we remained in perfect darknefs. At this moment, when the eye could no longer find an object to diftract the mind, the attention was awakened by the voice of harmony, for the whole congregation joined in the Miferere, which they fung with pleafing folemnity; at firft with foft and plaintive notes; but having laid bare their backs, and prepared

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them for the fcourge; they all began nearly at the fame inftant to ufe the difcipline, raifing their voices, and quickening the time, increafing by degrees both in velocity and violence, foourging themfelves with greater vehemence as they proceeded, and finging louder and harfher, till at the end of twenty minutes, all diftinction of found was loft, and the whole ended in one deep groan. Prepared as I had been to expect fomething terrible, yet this fo far furpaffed my expectation that my blood ran cold; and one of the company, not remarkable for fenfibility of nerves, being thus taken by furprife, burft into tears.

This difcipline is repeated every Friday in the year, oftener in Lent, and is their daily practice during the holy week. I was not at liberty to afk what advantage they derived, or what benefits they expected to receive from this feverity; yet, from the prevalence of vice in Spain, I fear this practice has little if any tendency to reform their morals.

The hofpicio, or houfe of induftry for the poor next attracted my attention. This institution originated in the year 1582 , much

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much about the time when the poor began to accupy the ferious attention of all the governments in Europe. With the houfe of induftry is united the hofpital of mercy, which, in the year 1699 , was put under the care of the nuns of St. Francis, called Monjas Terciarias de S. Francifco. The whole was reformed in 1772. In this eftablifhment they provide for children of parents who are burthened with a numerous offspring, for beggars; and for other objects of diftrefs. In the year 1784 , they had I466 paupers; the year following ${ }_{1} 3^{8} 3$; and, when I was there in 1785 , the number was 1460 , the average being fourteen hundred and thirty-fix. Of this number, about one thoufand ate able to work, three hundred are idiots, and the reft are little children, The whole expence of them is about forty-eight thoufand two hundred livres Catalan, or about five thoufand one hundred and fixty-four pounds ferling per annum. The king allows for each pauper fourteen maravedis per day to purchafe a ration of bread. Thefe are equal to one penny fterling, or nearly fo. The voluntary contribution amounts to about fifteen thoufand livres

Catalan,

## [125 ]

Catalan, and the deficiency is made up by the bifhop. The women and children are employed in knitting, fpinning, and in making lace. The men card, comb, fpin, and. weave cotton, flax, and wool. The pro= duce of their labour is contemptible, being at the rate only of one penny each per day, thould we allow, which cannot be allowed in Spain, three hundred working days, and one thoufand paupers fit to be employed. Yet this produce is greater in proportion than the average of our workhoufes in England. Although no paupers can be either better clad, better fed, better attended, or better lodged, or can meet with greater tendernefs when they are ili, they cannot readily forget their lofs of liberty. All thefe comforts, therefore, are defpifed when compared with freedom, and few, befides the moft decrepit, would remain within thofe walls if they could be permitted to beg their bread from door to door. This principle, however, is productive of much good; for mon of the young men in Barcelona, of any worth or firit; form themfelves into clubs for mutual relief, in the fame manner, and nearly upon the plan adopted by our friendly focieties in

England.

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England. Thefe fraternities have each its firm, taken from the name of the Saint to whofe protection it is recommended. They are upon the moft refpectable footing, and being well conducted, leave none but the moft improvident and moft worth. Iefs fubjects to be difgraced by confinement among fools and madmen. Thofe who are able to work, but choofe rather to live in idlenefs and vice, are left to the correcsion of the laws.

There is one houfe of correction, which is too remarkable to be paffed over in filence. It embraces two objects; the firf is the reformation of proffitutes and female thieves; the fecond, the correction of women who fail in their obligation to their hufbands, and of thofe who either neglect or difgrace their families. The houfe for there purpoles being divided into diftinct portions, without any communication between them, the one is called real cafa de gatera, and the sther real cafo de correccion. For each of thofe, who are thut up in the former, the king allows feven depiers to purchafe-eighteen ounces of bread, and nine deniers, which is nearly one penny fterling, to procure meat. The fund for

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this arifes from fines; but to aid this fund, the women are obliged to work as long as they can fee. By their labour they earn about five thillings a month, half of which they have for themfelves, whillt, of the other half, the alcayde or governor has onetenth to ftimulate his attention to his duty. Thefe women, working thus from light to light, would earn much more were it not for the multitude of holidays. The ladies, who deferve more fevere correction than their hufbands, fathers, or other relatives can properly adminifter, are confined by the magiftrates, for a term proportioned to their offences, in this royd manfion, or cafa real de correccion. The relation, at whofe fuit they are taken into cuftody, pays three fueldos, or four pence halfpenny per day for their maintenance; and with this feanty provifion they muft be contented. Here they are compelled to work, and the produce of their labour is depofited for them till the time of their confinement is expired. The whole building will contain five hundred women; but at prefent there are only one hundred and thirteen. Among thefe are fome ladies of condition, who are fuppofed to be vifiting
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fome diftant friends. Here they receive bodily correction, when it is judged neceffary for their reformation. This eftablifhment is under the direction and government of the regente de. la audiencia, affifted by the two fenior criminal judges, with the alcayde and his attendants. One of thefe judges conducted me through the feveral apartments, and from him I received my information. Among other particulars, he told me, that they had then under difcipline, a lady of fathion, accufed of drunkennefs; and of being imprudent in her conduct. As the was a widow, the party accufing was her brother-in-law, the marquis of -.

The judges of this court are univerfally ackinowledged to be men of probity, and worthy of the high degree of confidence thus placed in them. One of them, Don Francifco de Zamora, to whom I am indebted for the moft polite attentions, is a gentleman of indefatigable application, and of univerfal knowledge.

The audiencia mentioned above, although a modern inflitution, bears fome refemblance to the courts of Weftminfter

Hall, and a ftill greater to the parliaments in France, having the adminiftration of juftice, civil and criminal, committed to it, with the government, both œconomical and political, of the whole province, like the ancient courts of all the feodal fovereigns. The captain general and governor of Catalonia is prefident of the audiencia, with a vote. This tribunal, which is fupreme, and receives appeals, is divided into three courts, one criminal, the other two civil, and wher united into one, œconomical.

In each of thefe are five judges. The kings of Arragon, and after them the fovereigns of the united empire of Caftile and Arragon; were accuftomed to appoint viceroys of Catalonia, till Philip V. in the year I $_{716} 6$, changed the government of this province, eftabliffied the audiencia, and appointed his captain general to prefide in it.

Befides thefe general courts, there is one efabiifned for commerce, which is again fubdivided. Of the fubdivifions; one being judicial, determines differences between the merchants ; the other has the government of all arts and manufactures.

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## [ 130 ]

The whole city of Barcelona is divided in. to five diftricts or wards, over each of which prefides one of the five alcaldes del crimen, or judges of the criminal court of the audiencia, with his promotor, efcrivano, alguacil, portero, and alcaldes de barrio, to determine, in the firft inftance, all caufes both civil and criminal between the inhabitants, and to preferve the peace in their feveral wards. The alcaldes de barrio, of which each ward choofes annually eight, refemble our conftables. But befides thefe two alcaldes mayores are confervators of the peace, and juftices for the city at large.

The government of Barcelona, as far as relates to political œconomy, is committed to a court of twenty-four regidores nobles, or aldermen, four deputies from the commons, with authority to vote, and two fyndics, the one called procurador, and the other perfonero. This court is fubordinate to the acuerdo, or œconomical court, which is compofed of the two civil courts, affifted by the regente de la real audiencia, and prefided over by the captain general of the province.

There are three colleges of efcrivanos;

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the firft are called efcrivanos publicos, or efcrivanos de numero, who are fctiveners to make contracts and wills. The fecond are eforivanos reales de la audiencia, who are prefent in court to authenticate all tranfactions there; buit who may, by fpecial licence, make contracts alfo: of each of thefe the number is limited to forty. The third are improperly called efcrivanos, being procuradores, that is, proctors, folicitors, attornies, or counfel, to folicit and to plead all caufes in the courts of juatice. In Catalan thefe are diftinguifhed by the name of notarios reales couffdicos, and although by law they are limited to thirty, it is impoffible to confine them to that number, becaufe of the multitude of caufes which they have to plead. There are at prefent feventy-three of thefe, befides one hundred and ninety-nine advocates.

The multitude of caufes does not arife in Catalonia, as in Wales, from any violence of temper, or litigious firit in the inhabitants, but from the uncertainty of its laws. They have a peculiar code, called, Conftitutions of Catalonia; but this being inadequate to their wants, the next in force is

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## [ I32 ]

the canon law; and, where that is filent, their ultimate refort is to the Juftinian code.

The procefs is by written evidence, and the only parties vifible in court are the judges and the pleaders, with the relatores, or readers of that evidence authenticated by the efcrivano, in whofe prefence it was taken. For the affiftance of the poor there is appointed a procurador, and alfo an abogado; the one to folicit, the other to plead their caufes.

No hofpital that I have feen upon the continent is fo well adminifered as the general hofpital of this city. It is peculiar in its attention to convalefcents, for whom a feparate habitation is provided, that after they are difmiffed from the fick wards as cured of their difeafes, they may have time to recruit their ftrength, before they are turned out to endure their accurtomed hardfhips, and to get their bread by labour. Nothing can be more ufeful, nothing more humane, than this appendage. The numbers they received into this hofpital were, in the year ${ }_{1} 885$, nine thoufand two hundred and ninety-nine; and in 1786, fix thoufand

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thoufand four hundred and eighty-eight. In the former year they buried eight hundred and fifty-four ; in the latter, nine hundred and twenty-fix; which, upon the average, is nearly a ninth of thofe who enter; but then it muft be confidered, that many are put into public hofpitals merely to fave the expence of funerals.

With this hofpital is united, under the fame adminiftration, an eftablifhment for foundlings, fufficiently capacious for the city and its environs. The deferted children were five hundred and twenty-eight, on the average of the two laft years, and of thefe two-thirds were buried; a proportion fhocking to humanity, but the inevitable confequence of taking infants from the mother, and crowding them together in a city; more efpecially if, as in Barcelona, five children hang upon one nurfe. It is much to be lamented, that they have not, like the French, recourfe to the milk of goats; or, like the nurfes of the Orphan Hofpital in Dublin; learnt the ufe of fucking bottles.

The boys on this foundation are bound apprentice when of a proper age; the girls, K 3 when

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when marriageable, are conducted in proceffion through the flreets, and any young man, who fees one, whom he would choofe for a wife, is at liberty to mark her, which he does by throwing his handkerchief.

Befides thefe charitable foundations, there is in Barcelona in orphan hofpital, which I did not vifit.

The inns are little inferior to thofe of the great towns in France. The table is well ferved, and fupplied with plenty of good wine. The whole expence for lodging and board is only five livres French, or four fhillings and two pence fterling per day.

Barcelona may be confidered as divided either into diftricts or into parifhes; the former being five, the latter eight, including the cathedral. In a circumference of four miles it contains at prefent ten thoufand two hundred and fixty-feven houfes, and twenty thoufand one hundred and twenty-eight families, confifing of ninetyfour thoufand eight hundred and eighty perfons.

The thriving condition of this city will appear

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appear by exhibiting at one view the fate of its population at different periods.
A. D. 1464 , the number of per-


The falling off, in I7. 5 , may be readily accounted for, by recollecting, that during - the war of the fucceffion, Barcelona was befieged three times, and taken twice, firit by the Englifh, then by the French. In thefe convulfions the migration was great, and the affaffinations were innumerable.

If the returns, which have been made to government, are compared with the parochial returns of births and burials, we fhall be inclined to fufpect fome inaccuracy in either one or both, unlefs we take into confideration the numbers of priefts, foldiers, monks, and nuns, which make thefe proportions differ from thofe, which have been found in other countries. The births, on the average of the two years, 1785 $\mathrm{K}_{4}$ and

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and $I_{7} 86$, were three thoufand nine hundred and fixty-fix; the burials four thoufand one hundred and ninety-eight; the deaths exceeding annually the births by two hundred and thirty-one. This circumfance is not uncommon in great cities; but if we multiply the births by twenty-fix, and the burials by thirty-fix, and take the average between them, we fhall have one hundred and twenty-feven thoufand and ninety-feven, which is thirty-two thoufand two hundred and feventeen beyond the returns to government. It muft be confeffed, that the people have an intereft to conceal their numbers, in order to leffen their contribution. This being the cafe, perhaps we fhould come nearer to the truth, if we Chould fuppofe the population of Barcelona, comprehending only thofe who are fettled in a family way, at more than a hundred thoufand fouls. I fhall however only fate them according to the government returns.

> Settled in families - - 94,880
> Secular priefts, and fervants of the church
> In ig convents of monks $\quad-\quad 912$
$\left[\begin{array}{lll}\text { [ } & 37\end{array}\right]$
In 18 convents of nuns, and
3 of beatas - - ..... 654
In the general hofpital, with foundlings ..... 2,597
In the work-houfe ..... 1,438
In prifons, and houfe of cor- rection ..... 337
In fanctuary at the cathedral, at prefent only ..... 8
In garrifon, and military aca- demy ..... 5,628
Officers of juftice, and inqui-fitors147
Clergy of St. Philip and others ..... 157
Strangers on board of fhips,and in the inns, \&c.3.440
Total numbers in Barcelona - III,410

This account of the population of Barcelona I have from D. Francifco de Zamora, and it is confirmed by the captaingeneral ; yet both acknowledge, that to obtain precifion is almoft impoffible; and neither of them could give me the numbers confined in the prifons of the inquifition.

## [ $13^{8}$ ]

The wealth which flows into Barcelona is not confined within its walls, but helps to increafe the population of all the furrounding villages, which, in the compafs of five leagues, are one hundred and five, all fubject to its jurifdiction, and all partaking of that tranquillity which arifes from energy in a well conftituted government.

The induftry which every where appears in Catalonia feems to act with concentrated force in Barcelona. Early and late, not only is the hammer heard upon the anvil, but every artift is feen bufily employed, each in his feveral way adding to the general ftock.

Two confiderable trades in Barcelona are the taylors and the fhoemakers, who are employed in clothing the army, not only in Spain, but over the whole empire. It is curions to obferve, that as Scotland is remarkable for breeding gardeners, Ireland chairmen, Switzerland foldiers, fo Catalonia is diftinguithed all over Spain for thoemakers and taylors.

Amongft the more confiderable trades are the filk-weavers, cutlers, armourers and braziers, carpenters, cabinet-makers,

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turners, with fringe-makers and embroiderers. I was particularly ftruck with the gun-fmiths, who appear not only numerous and diligent, but uncommonly dexterous in the handling of their tools. The turners are more than dexterous, making one foot upon occafion ferve the office of a hand to guide the rool, or to fix the poppet-head. The carpenters work in a manner peculiar to this city. They have neither pit faw, hand faw, carpenter's adze, axe, nor hatchet. To fit a plank, they fix it in a vice and ufe a fpring faw ftrained by a bow, for working which they require two men. At this we need not wonder much; yet, when we fee two men employed with the fame tool, that is, with a tool of the fame form, but finer, to make either dove-tail joints for cabinets, or tenants for doors and fafhes, we muft be allowed to fmile. If they wifh to fmooth a board, they let it incline upon two wooden treffels, and hew it acrofs the grain with a cooper's adze, not reflecting than an elaftic body cannot refift the ftroke. It is by no means neceffary that a mechanic thould be able to explain she laws of motion, but what philofophers acquire

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acquire by ftudy, he fhould learn by obfervation; and with him, experience fhould fupply the place of inftinct, and fuperfede the ure of abttract reafoning.

The chocolate grinders have a method of working peculiar to Spain, and much preferable to that which is ufed in England. Our grinders, depending altogether on mufcular exertion, ufe only the mufcles of one arm, and employ thofe mufcles to the greateft difadvantage; whereas in Barcelona, the flab, infread of being flat and horizontal, is curved, forming the fegment of a hollow cylinder, and is inclined to the horizon. The operator kneeling behind this, and leaning over it with a granite roller, which is fomething longer than the flab is wide, grinds the chocolate, ufing' both his hands, and preffing it with the weight of his body, as well as by the exertion of his arms. This operator goes from houfe to houfe, becaufe moft families choofe to have their chocolate ground at home. For the market they have a more expeditious method, and grind the chocolate much finer than it can be made by hand. For this purpofe five rollers of po-

## [ 14 i ]

lifhed fteel, fixed in a frame, and appearing like the fpokes of a wheel, or the radii of a çircle, yet each turning round upon its axis, are placed between two mill ftones, of which one is immoveable, whilf the other with the rollers receives motion by communication, in common with two other mills of the fame conftruction, from a cogwheel below ftairs, which is turned in the ufual method by a mule. The nuts fall through hoppers to feed the mills. In this manner one man will grind thrce hundred weight of chocolate every day

The manufacturers of filk, cottun, and wool, adopt all the modern improvements. It is now about a twelvemonth fince $M$. Pontet brought to them from France a model of a machine for fpinning cotton better than it can be fpun by hand, fomething like that which was invented by Mr. Arkwright. As this machine is well known in England, I fhall not defcribe it. They have here a company, eftablifhed by. chariter, for fpinning American cotton to fupply the manufactures, which ufed to take annually from Malta fpun cotton to the amount of two hundred thoufand dollars,

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or about thirty thowand pounds fterling This company enjoys many and valuable privileges. They have fourteen of the Manchefter machines at work. As the cotton comes over foul, and full of fand, they are obliged to prepare it before they can begin to work. This they do in a fimple machine conftructed for the purpofe. They have a large lanthorn cylinder made with pantile laths, leaving half an inch between lath and lath. This cylinder is inclined to the plain of the horizon, and is immoveable. Within this they leave a portion of a conc, approaching in its form to the containing cylinder, turning on their common axis, and furnifhed with iron 'Ppikes of about five inches in length, placed in a ppiral line, to correfpond with fimilar fpikes fixed within the cylinder, in order to teafe and to cleanfe the cotton. The perfon who turns this machine with one hand, feeds it with the other. Government, difpofed to give every poffible encouragement to this branch of manufacture, has granted to the Marquis de Gobert exclufive privileges for his blanket manufacture at Vicq, as a reward for his having planted cotton in the ifland of Ivica,

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and has offered premiums to thofe who fpin the greateft length of thread from one ounce of cotton. For printing cottons they have the fame flow procefs, which was practifed in England with ftamps, previous to the ufe of cylinders.

The manufacture, which gave me the greateft pleafure, was one of woollen, carried on by Don Vincente Vernis. He employs three hundred and fifty perfons in making cloth for Spanifh America, which indeed takes moft of the Barcelona goods, except fome filk fmuggled with. their brandy through Guernfey into England. He has a very compact and elegant machine for winding and twifting worted, in which fourfcore reels are managed by one little girl, whilf another gives motion to the whole, and at the fame time employs herfelf at knitting. This child, fitting on a bench, treads a vertical wheel, which, by means of a wheel with cogs, fixed on the other end of the fame axis, moves the horizontal wheel, and thereby turns the fpindles. When one of the girls is weary the other takes her place.

The manufactures have increafed with fuch

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fuch rapidity, that the wages of labour for all kinds of artifts in the city and the ens virons have advanced to two piftreens, or one fhilling and eight-pence a day, for which they work only feven hours. The common labourer will earri fourteen pence. in winter, but in harveft twenty. Thefe gains, however, are not out of proportion to the value of provifions, as regulated by the magiftrate. Mutton is fold for ten pence the pound of thirty-fix ounces; beef for feven-pence, and bread at prefent for feven farthings the pound of twelve ounces; lodging for a fmall family coits. about two guineas a year.

The mechanics here allow, that to maintain a family with tolerable comfort, their gains muft be one hundred livres Catalan for each, which is nearly eleven pounds fterling.

As fuel is not eafily procured, they ufe the utmoft frugality in dreffing their little dinners, feldom indulging themfelves with either roaft or boiled meat, but mofly ftewing it in pitchers over their fogon or little furnace.

Nothing can more diftinctly mark the character

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character of this people and the rigid parfimony which accompanies the induftry of Catalans, than a trade by which many contrive to obtain a maintenance for themfelves and for their families. This occupation is to make fogons, which they do for lefs than a penny fterling each. Theit manner of conftructing them is fomewhat fingular. They take any bottomlefs pot, without enquiring for what ufe or purpofe this pot has been before employed. They line it within, and cover the ouffide with well-tempered clay; then, putting three iron bars in the bottom, and three knobs by way of feet, with three more to fupport an olla or puchero, the whole is finifhed; and in this behold the poor man's kitchen. The puchero is fimply an earthen pitcher, in which the meat is fewed, and hence the common invitation to dinner, even in the houres of wealthy citizens, is to partake of their puchero, or, as we fay, to take pot luck.

The foundery for brafs cannon is magnificent, and worthy of infpection. It is impoffible any where to fee either finer metal, or work executed in a neater and YoL. I. L more

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more perfect manner. Their method of boring was, in the prefent reign, introduced by Maritz, a Swifs. Near two hundred, twenty four-pounders, are finifhed every year, befides mortars and field-pieces.

The ftationers in Barcelona have a method of ruling books for merchants, than which nothing can be either more fimple, expeditious, or exact. For this purpofe they have a frame with bars, moveable in grooves, which are readily fixed at the diftances required.

In every country a traveller can pafs through, he will find fome mechanical contrivances, fome modes of expediting work, which are of late invention, or at leaft new to him; and I am inclined to think, that no country, if thoroughly examined, would furnifh more than Spain. This, however, I conclude, not only from thofe tranfient obfervations, which I have had opportunities of making, but from thofe of a moft excellent mechanic, M. Betancourt, a Spaniard, who has fought out ingenious artifts in their garrets all over Europe, and who, I am perfuaded, not from national prejudice, but from intimate knowledge

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and conviction, places his own countrymen among the foremoft in fertility of imagination and mechanical invention.

The infpection of their gun-locks gave me peculiar fatisfaction. In thofe which are made in England, the tumbler, unlefs cafe hardened, is apt to wear, and to go off upon the half cock; and even when executed in the mof perfect manner, how many accidents have happened in going through a hedge; but in the Spanifh gun-lock, the tumbler, if I may be allowed to call it fuch, being of a different conftruction, is free from there imperfections. I fhall not here attempt any verbal defcription of this excellent piece of mechanifm, but hereafter I may, perhaps, engrave my drawings, and give them to the public.

The commerce of Barcelona is confiderable, notwithftanding the many impediments, natural and political, which have checked, and fill continue to reftrain its progrefs. This city has no navigable river, and feems to have been built in its prefent fituation only for the fake of deriving protection from the high mountain, which commands it. The bafon is formed by a L 2 mqle,

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mole, and is fufficiently capacious, but there is only twelve feet water on the bar. The quay is well conffructed, but merchants are not permitted to land their goods immediately on it, left the boatmen fhould want employment. All fhips which are admitted to prattique, even though they fhould be forced in by ftorms, pay a duty, which is called Lhuda; and, fhould they be obliged to land the cargo; on refhipping, they have oppreffive duties to difcharge.

The province is indebted to the Count Campomanes for the removal of the worft impediment to manufactures, that ever was invented by the blind avarice of fovereigns, at once to feize a revenue and to cut off the fource, from which it hould arife. Although abolifhed, the Bolla deferves to be recorded for the honour of the king, who, from principles worthy to be adopted by all the governments in Europe, had the wifdom to revoke it. Previous to the abolition of this vexatious tax, the weaver could not begin a piece of cloth, without fending for the adminiftrator of the bolla to affix his leaden mark, and when he had finifhed it, he was to do the fame. When difpofed

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difpofed of, it was neceffary to have another leaden feal, attended with a certificate; after which, when fold by retail, the portion cut off was to be fealed with wax, and the end of the piece, from whence this fmall quantity had been taken, was to be fealed again with lead. The tax was fifteen per cent.

We wonder at the ftrange abfurdity of this impofition; but, let our own government reflect, that the fovereigns of Catalonia had not the monopoly of folly. Spain may with good reafon fay to England,

Cum tua pervideas oculis mala lippus inunctis,
Cur in amicorum vitiis tam cernis acutum. Hor.Sat. lib. i. fat. 3.

Brandy, wine, nuts, almonds, raifins, and cork, are fhipped at different places on the coaft for the merchants, who refide in Barcelona. The wines are Mataro, Villanova, Sitges, Valls, and Granatché. The price varies according to the feafon, but when it is higheft, we may reckon Mataro at fixteen dollars, or forty-eight fhillings, the hogthead, including the Spanifh duties; Villanova, fifteen dollars; Granatché, forty.

All

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All there are red. The following white wines are, Sitges, fifty-four; Valls, twenty dollars; but the common price is twelve dollars and an half per hoghead for both the Mataro and Villanova.

When brandy is deareft, it is fold, duty free, on board, at 57 dollars, or f .8 . II s. the four cargas or pipe of 124 gallons Englifh, Hollands proof, or is. $4^{\frac{\pi}{2}}$. per gallon; but it is fometimes fold at 10 d . Of late confiderable quantities of brandy have been cmbarked at Barceloneta, where they may be depofited from the neighbouring country, without being liable to the heavy municipal duties levied at the gates of the city on provifions of every kind, and from the impofition of which, brandy is much dearer in Barcelona than in Guernfey.

Befide the articles above enumerated, the merchants export wrought filks, printed cottons, woollen goods, fimall arms, and fpecie. This laft is contraband. Catalonia furnifhes thirty-five thoufand pipes of brandy, and two thoufand of wine, befides thirty thoufand bags of nuts, containing three bufhels each, at twenty fhillings the bag: Of the above, about four thoufand

## [ 15 m ]

pipes of brandy, and fome filk, go to Guernfey and Alderney, and the reft to France, all to be fmuggled into England.

The cork bark, which makes a principal export of this province, was for a time prohibited, under the idle notion that the inhabitants might manufacture it at home; not reflecting that the Englifh cutters could get a fupply of cork in Portugal and France.

The imports are corn, filh, woollen goods, hardware, and oil of vitriol. The articles prohibited are beer, cyder, lead, hofe, haberdaffery, muflins, and cottons; but of the two laft, immenfe quantities are fmuggled in.

Wine, entering the city, pays a town duty of fifty reals per carga of twentyeight gallons. Wheat and barley, entering by fea, pay, if for the public bake-houfe, one and an half per cent; if on a Spanifh merchant's account, three per cent; and if on account of alien merchants, four and an half per cent. This duty was recovered formerly for the bifhop; but at prefent the L 4
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king takes a part of it on his own a.ccount.

Cloth pays from one hundred twentyfeven to three hundred fifty-feven maravedis the vara,

Leather pays eighteen maravedis per pound, Hardware from thirty to fifty per cent; and fifh, from thirty to feventy per cent, on the prime coft. Wine exported pays five per cent. if on foreign bottoms, but if on Spanifh, it is free. Nuts pay three fols eight deniers per fack. Of thefe, twenty thoufand are for the Englifh market.

About one thoufand veffels enter the port of Barcelona yearly, and of thefe one half are Spanifh, one hundred Englifh, one hundred and twenty French, and fixty are Danes.

The confidence of Catalans on the inter. ceffion of the faints has at all periods been a fource of confolation to them, but upon fome occafions, has betrayed them into mifchief. Every company of artizans, and every thip which fails, is under the inmediate protection of fome patron. Folio

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Folio volumes teftify the numberlefs miracles performed by our lady of Montferrat, and every fubordinate farine is loaded with votive tablets. Were this perfuafion of the kindnefs and power of departed faints productive only of gratitude and hope, it were cruelty to rob them of their treafure; but, unhappily, it has been the parent of prefumption; and among the merchants has brought many wealthy families to want. The companies of infurance in the laft war, having each of them its favorite faint, fuch as San Ramon de Peñaforte, la Virgen de la Merced, and others, affociated in form by the articles of partnerfhip, and named in every policy of infurance, and having with the moft ferupulous exactnels allotted to them their correfpondent dividend, the fame as to any other partner, they concluded, that with fuch powerful affociates it was not poffible for them to fuffer lofs. Under this perfuafion they ventured, about the year 1779 , to infure the French Weft Indiamen at fifty per cent, when the Englifh and the Dutch had refufed to do it at any premium, and indeed when moft of the thips

## [ ${ }^{54}$ ]

were already in the Englifh ports. By this fatal ftroke all the infuring companies except two were ruined; yet, notwithftanding their-misfortune, this fuperfition remains in force.

In Catalonia as in France, with which this province was formerly connected, accounts are kept in livres, fols, and deniers; swelve deniers make a fol, and twenty fols a Livre. Thus far all is plain and eafy; but when we are to reckon by the money of this province, nominal and real, nothing can be more perplexing. If we reckon the pefo or current dollar at three fhillings fterling, the hard dollar will be four, the current piftole, twelve; and the piftole of gold, fifteen hillings.

But for greater perfpicuity, I fhall reduce them to a table, reminding the reader that in proportion as the exchange varies, additions or fubtractions muft be made.
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## Quarto of 4 Maravedis, worth $\frac{2}{7}$ of a penny fterling.

The above are of copper. Thofe which follow are of filver.

Value in

$\underset{\sim}{\circ}$

Denomination.







into Catalonia, gains per cent.

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THE IMAGINARY MONEY of CATALC A

## Denier

Sol
Livre
Real ardite -
Pefo, curt. Dollar Ducat
Current Piftole Piftole of gold

Eight Deniers are equal to 3 Quartz, Spanifh Money.
To reduce Pefos into Livres, multiply by feven, and divide by five; or add $\frac{2}{5}$ of the Pefos.

To reduce Livres into Peios, multiply by five, and did - 0 by feven.

## MEASURES IN CATALONIA.

Twelve Cortans make one Quartera, which is two Bufhels, Englifh meafure.
Sixteen Cortans make a Carga of wine or brandy, which is about thirty Gallons Englifh, and is reckoned to be twelve Arrobas.

One hundred Quarteras are reckoned equal to 128 Fanegas.
WEIGHTS.

Eight Ounces make a Marc, being $\frac{7}{6}$ heavier than in Caftille.

Twelve Ounces make a Pound.
Twenty-fix Pounds one Arroba.
Four Arrobas one Quintal, which is ninety-three Pounds Englifh, or ninety-one Pounds Caftillian.

One hundred and swenty-five Pounds make one hundred 20d twelve Pounds Englifh.

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The building of Barcelona, according to hiftorians, was about two hundred and thirty years prior to the chriftian era, and three hundred fubfequent to the firft eftablifhment of the Carthaginians in Spain. It is faid to have been called Barkino by its founder, in honour of his family, and to have derived from the Jews the commercial fpirit which it has conftantly retained.

It has feen many revolutions, and fuffered much by every change. It was early delivered from the dominion A. D. 805 of the Moors, and raifed into a county, paying homage to the kings of France, till they, unable to protect it, refigned their claims, leaving A.D. 874. the citizens to their own exertions for the vindication of their freedom. From this time their ftruggles, for more than a century, were incefiant with the Moors; but in the end, the A.D. 994. crefcent yielded to the crofs, and for many generations Barcelona was independent on its neighbours. Towards the clofe of the twelfth century it was annexed, by the marriage of its count, to the crown of Arragon; and, at a fublequent period,

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period, by the union of Ferdinand and Ifabella, it became a part of the Spanifh monarchy.

Whilf the fucceffion was difputed between the two houfes of Auftria and Bourbon, on the death of Charles
II. of Spain, this city was A.D.1700. of too much importance to the contending powers, to remain long in the quiet poffeffion of either. The French were mafters of the city, when the earl of Peterborough arrived upon the coaft with his little army, a force too inconfiderable to attempt a fiege with any profpect of fuccefs. But as this gallant officer had that, which fupplies the want of more numerous armies, an imagination fertile in refources, his friends never gave up their hopes of fuccefs, till they faw him re-embark his troops, and prepare for failing. The moment of defpair to them was to the befieged the reviving of their confidence; and his departure was the fignal of feftivity to thofe, who had never been free from apprehenfions, whilit he remained before the city. He failed; but in the night he difembarked his troops, and before the morning he got poffeffion of Mon-

