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I cannot afcertain with precifion the quantity of mercury, loft in this operation, as the accounts of miners are fo varied and incorrect on this head; the moft probable conjecture, is, that they lofe as many ounces of mercury, as they obtain ounces of filver, fo that an ounce of mercury delivered at Mexico, becomes nearly of the fame value as an ounce of filver ( $a$ ).
(a) The 18000 quintals of mercury mentioned above, are difpofed of in the following manner; 12000 fent to Mexico and New Spain, 2000 to Guatimala, and 4000 to Lima; Peru. furnifhed the remainder from its own mine of Guancavelica. According to Barba, who wasparifh prieft of Potofi, in 1637 , mercury was firt ufed in the mines in 1574 , and down to his time, the royal office had received 204700 quintals of mercury, exclufive of the great clandeftine import. Efcalona in another work, declares that before 2638 , it appeared by the public accounts, that the produce of the filver amounted to 395.60 g .000 pefos, which in 93 : years, the time it had been difcovered, amounts to $4 \boldsymbol{4} 255.045$ pefos per annum; from whence may be conceived the wealth of the mountain, and though it has not of late been fo productive as formerly, yet it is fill very confiderable.---See "voyage to South America, undertaken by command of the king of Spain, by Don George Juan and Don Ant. de Ulloa, tranflated from the Spanifh." London, 1758 .
The following is an account of the Spanifh mints in America, as they ftood in 1777.


Sonora in California. New mint eftablifhed in 1748, uncertain

Fifty-nine millions of pefos, at 4 s .6 d . each, $\ldots \ldots$. $\Rightarrow$. $13.775,000$. ferling per annuma

## TRAVELS THROUGH SPAIN.

## LETTER II,

Ilinerary of Don Guillermo Bowtes, continued, from Almaden to the city of Merida, in Eftremadura.

INTENDING to make a tour into Eftremadura, I fet out from Almaden towards the north weft, as far as Zarzuela, then, inftead of continuing the road to Madrid, I went to the weftward, croffing a chain of hills which divide La Mancha from Eftremadura. Thefe hills are covered with rofemary four or five feet high, privet, feveral forts of the ciftus with lavender leaves, elm leaves, rofemary leaves, and two other fpecies: Alfo a great deal of lavender, thyme, and dwarf ciftus, and though the ciftus is of no ufe to the bees, they draw fo rich a fore from the other plants with which the country abounds, that hives are numerous every where in thefe parts. From thefe hills you defcend to the village of Guabaguela, where the good pafture begins for the Merino fheep, the grafs being plentiful and fine. The hills are chiefly co: vered with oaks, which become hollow by the imprudent manner in which the branches have been lopped; however they produce abundance of acorns for the fwine, which are all black hereabouts. The principal revenue

## $25^{\circ}$ TRAVELS THROUGH SPAIN.

of the country gentlemen, confifts in pafture, honey and wax. They have ftuds of brood mares, and a breed of cows, which all over Eftremadura are whitifh or red. It is feven leagues from Guabaguela to Alcocer, over an uneven ground, watered by a great many fprings. You next come to Tallarubia, whofe diftrict is level, and proper for pafture. The rocks of fand or quartz are feen no more, but many loofe pieces of each lie fcattered on the furface of the ground; the rocks have perpendicular laminated fiffures, fome thin, others thick, which feem to demonftrate their fucceffive decompofition into arable land, and the fame happens with the quartz rocks on the hills. The flaty rock is compofed of argillaceous earth, and fine fand, and from them, when they decompofe, comes that fine fand feen in the brooks, and on the fides of the road, the water carrying away all the argillaceous earth, which does not cling faft to the roots of fhrubs, or trees. Some rocks hereabouts, are apparently as hard as the Egyptian Bafaltes, and of the fame colour, and nature; neverthelefs they moulder away like the reft, and turn into earth. In the midft of this vitrifiable country, the calcareous ftone begins to form itfelf, and is feen difperfed up and down, on the furface, like patches.

The paftures called Debefas de la Serena, are contigur ous, being a depopulated diftrict of nine leagues extent,
tent, reaching to the village of Coronada, confifting of a plain without either trees or plants. At the end of this diftrict, there are rocks of white quartz, veined with a pale red; alfo a great many oaks and wild olive trees, as well as that fpecies of crowfoot, called ranunculus ficaria by-Linnæus, whofe roots are like barley corns, and from their refemblance to external hemorrhoides, fanciful people have imagined they had the virtue of curing them.

From Coronada, it is a journey of three hours to Villanueva de la Serena, from whence an extenfive plain, entirely of fand, reaches to the village of Don Benito, neverthelefs fertile in corn, vines, pears, figs, \&c. owing to the proximity of the water, as appears from the quantities of rufhes fpringing up every where; for, though the furface is covered with a loofe fand, for two or three feet, there is a bed of a more firm and compact fort underneath, which fupports the water, without the affiftance of clay, hard earth, or rock, to impede its filtration; fo that this foil will often produce thirty for one; it being enough to plant a branch of a fig-tree, or a flake of an olive, for it foon to take root, and give fruit; yet, notwithftanding all thefe advantages, great part of the country lies wafte, as far as Medellin, on the banks of the Guadiana, whofe houfes are fmall, and only of one flory. In the centre of Medellin, they fhewed me an humble manfion, though

## $25^{2}$ TRAVELS THROUGH SPAIN.

worthy of notice, as having been the native place of the illuftrious Hernan Cortei, the great conqueron of the Mexicah Empire. The lintel of the door, is of granite, fimilar to that of the Efcurial, a fmall cage indeed, for fo comfiderable a bird! ! faid a bifhop of Badajoz, on viewing this building.

From Villanueva I came, in four hours, to the village of San Pedro, croffing part of a fandy plain, but except what is cultivated, by the inhabitants of Don Benito, all the reft is neglected, and only ferves for pafture, the water being at a greater diffance. This diftrict is called Torre Campos, and extends four fquare leagues, to the village of San Pedro, amidft hills, covered with oak, gum ciftus, lavender, and white afparagus; from hence it is three hours journey to the city of Merida, defcending, after the firt league, into a well cultivated country, traverfed by feveral brooks, that empty themfelves into the Guadiana, whofe beds are dry in the fummer, as well as this great river itfelf, in many places; for, as it meanders fo much in the plains, the fands foak up its water, which, by degrees, eats away the hills, converting the granite, fandfone, and rock, into fand; fo that the coarfe fand, the fine, and the pebble, are feen, decompofed, in the valley, in the fame order they were ranged on the hills, from whence they have infenfibly solled down. Thus, for example, if, on the eminence,

## TRAVELS THROUGH SPAIN.

there was a quarter of a league of granite, the fame proportion will be found in the valley, of pebble; if fandy rock, then coanfe fand; and, if folid rock, then fine fand, and, at times, all blended together, from their having been fo in their former pofition.

Merida, from its venerable remains, and antiquities, jufly deferves the attention of the curious. What is now left of this antient city, is on a fmall hill, occupying about the circuit of a league, on the banks of the Guadiana, but its ruins extend much further, and fhew it to have been the principal colony of the Romans, in Spain.

Examining the remnants of fone, fcattered amongft the ruins, I found a great variety of colours, mixtures, hardnefs, and qualities. To be the better acquainted with their nature, I attentively obferved the adjacent hills, and plains, from whence they were moft probably dug out; from thefe refearches, I deduced four primitive forts, which, by various mixtures, conftitute the great variety obferved here. The firft is of a deep red, like bulls blood, and fometimes as brown as chocolate, with a fmooth grain ; this is the mother of Porphyry; the fecond is white, and without any grain; the third is of a blueifh caft, tending to black; and the fourth inclining to green ; all thefe primitive kinds, when confidered fingly, are of very little value, from the dullnefs
dullnefs of their tints, the white excepted; but, when blended together, have a pleafing effect. The white united with the porphyry, conflitutes an anomalous ftone, which cannot be claffed with any of thofe defcribed, either by the antients or moderns. Pieces of it are found on the furface of the ground, of twenty pound weight, and it is probable there are confiderable beds of it underneath; for, naturally, the antients dug out the beft, and where it was eafieft to be got. The mother of porphyry, appropriated to itfelf in its primitive fate, divers fragments of white quartz, from the fize of a hazle nut to that of a chefnut, which occafions thofe various fpecks and appearances : when a piece of red fone is feen, chequered in this manner, it is the true porphyry, fo efteemed by the antients; in a word, this beautiful ftone has no where its equal, and may jufly be ftiled the Nonpareil of Merida. Whenever the blue fone grows darkifh, mixing with a little of the white, and fome glimmer, it forms the grey porphyry; and when the green combines with fragments of white, it becomes the ferpentine ftone, and receives an admirable polifh. Thefe various combinations into one folid mafs, evince, that at fome remote period, they had a feparate exiftence, in a flate of folution, or foft pafte; but if I am further afked, when this furprifing union happened? I fhall be obliged to anfwer, that this is a circumftance I am entirely ignorant of.

There are fill to be feen, in the city of Merida, the fuperb remains of two aqueducts, a theatre, a triumphal arch, a naumachia, a circus, two handfome bridges, one over the Guadiana, and the other over the Albarregas ; all which announce its former magnificence, exclufive of the ftatues, infcriptions, medals, and other antiquities, fo frequently dug out of its ruins (a). It was made a Roman colony by the Emperor Auguftus, after the Cantabrian war, became the capital of Lufitania, and ftiled Augufa Emerita. But at prefent agriculture and cultivation are at the loweft ebb; nor do the banks of the river, in its neighbourhood, afford that verdure and pleafing fhade, fo greatly praifed, even in the days: of Prudentius, who faid of this place,

Nunc locus Emerita eft tumuli<br>Clara colonia Vettonix<br>Quam memorabilis amnis Anas<br>Proterit, et viridante rapax<br>Gurgite mænia pulcra alluit.

[^0]LETTER:

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## L E T T ER III.

Natural hifory of the locufts that ravaged the province of Efremadura, in the jears 1754, 1755, 1756, and 1757, from the obfervations of Don Guillermo Bowles.

THE locufts, of which I am now going to fpeak, are continually feen in the fouthern parts of Spain, particularly in the paftures and remote uncultivated diftricts of Eftremadura, but in general are not taken notice of, if not very numerous, as they commonly feed upon wild herbs, without preying upon gardens, and cultivated lands, or making their way into houfes. The peafants look at them with indifference, while they are frifking about in the fields, neglecting any meafures to deftroy them, till the danger is imminent, and the favourable moment to remedy the evil is elapfed.

Their yearly number is not very confiderable, as the males are far more numerous than the females. If an equal proportion was allowed, only for ten years, their numbers would be fo great, as to deftroy the whole vegetative fyftem. Beafts and birds would flarve for want of fubfiftence, and even mankind would become a prey to their ravenous appetites. In $\mathbf{1 7 5 4}$, their increafe was
fo great from the multitude of females, that all La Mancha and Portugal were covered with them, and totally ravaged. The horrors of famine were fpread even further, and affailed the fruitful provinces of Andalafia, Murcia, and Valencia.

The amours of thefe creatures are objects of furprife and aftonifhment, and their union is fuch, that it is difflcult to feparate them. When this feparation is voluntary, after having lafted fome hours, they are fo exhaufted, that the male retires immediately to the water for refrefhment, where, lofing the ufe of his limbs, he foon perifhes, and becomes an eafy prey to the fifh; having given life to his offspring, at the expence of his own. The female, difembarraffed, though not without violent ftruggles, fpends the remainder of her days in fome folitary place, bufy in forming a retreat under ground, where fhe can fecure her eggs, of which fhe generally lays about forty, fkreening them by her fagacity, from the intemperature of the air, as well as the more immediate danger of the plough, or the fpade; one fatal blow of which, would deftroy all the hopes of a rifing generation.

The manner of her building this cell is equally furprifing. In the hinder part of her body, nature has provided her with a round, fmooth inftrument, eight lines

## $25^{8}$ TRAVELS THROUGH SPAIN.

in length, which, at its head, is as big as a writing quill, diminifhing to a hard fharp point, hollow within, like the tooth of a viper, but only to be feen with the lens. At the root of this vehicle, there is a cavity, with a kind of bladder, containing a glutinous matter, of the fame colour, but without the confiftency, or tenacity of that of the filk-worm, as I found by an experiment, made for the purpofe, by an infufion in vinegar, for feveral days, without any effect.

The orifice of the bladder correfponds exactly with the inftrument which ferves to eject the glutinous matter, it is hid under the fkin of the belly, and its interior furface is united to the moveable parts of the belly, and can partake of its motions, forming the moft admirable contexture, for every part of its operations, as fhe can difpofe of this ingredient at pleafure, and eject the fluid, which has three very effential properties: Firft, being indiffoluble in water, it prevents its young from being drowned; next, it refifts the heat of the fun, otherwife the fructure would give way and deftroy its inhabitants; laftly, it is proof againft the froft of winter, fo as to preferve a neceffary warmth within.

For greater fecurity, this retreat is always contrived in a folitary place; for, though a million of locufts were to light upon a cultivated field, not one would depofit her
her eggs there, but wherever they meet a barren and lonefome fituation, there they are fure to repair, and lay their eggs : this difference in the earth they difeover by the fmell. Thofe who are of another opinion, furely have not obferved the delicacy of thofe organs in every fpecies of infects, birds, and animals, which govern all their purfuits. I have even feen numbers of wafps come to a piece of meat, placed in an open field, and covered over with a glafs, fo that their motions, which feem the refult of reflection, arife from the emanations and effluviæ in the air, which ftrike their delicate organs. I have feen legions of infects fly to places where they were bleaching wax; the workmen obferve, that the minute they touch it, they become faint, and if they do not, by a fudden exertion, free themfelves from that vapour, which exhales about half an inch from the wax, they are fuffocated, as we fhould be by the fumes of charcoal. Every one knows with what fagacity birds of prey fly to fuch diftances, guided by the effluvix of cadaverous bodies. Thus the locuft of Eftremadura, diftinguifhes the tilled land from the barren, and regulates its conduct in confequence, though ignorant of the motive of this preference, nor can it have any idea of the fpade, or rejoice at the thoughts of faving its progeny; acting in confequence of that infinite perfection of its nature, given originally by the omnipotent creator. Like other infects, its motions are the confequences of primiK k 2
tive
tive laws, founded on infinite wifdom, and not proceeding from fecondary reflection; therefore its behaviour preferves a conftant famenefs, and uniformity, originally perfect, and not ftanding in need of alteration, or improvement. The firft locufts were as fkilled as the prefent race, and their progeny will tread in their fteps. Thofe who call it inftinct, I fufpect, do not underftand what they mean, nor explain to us the true fenfe of that word.

Having fpent many hours and days in obferving the labours of the locuft, I fhall now proceed to defcribe them. The female begins, by ftretching out her fix legs, fixing her claws in the ground, and holding with her teeth to the grafs ; then expands her wings, to prefs her cheft clofe to the ground; where, clinging firmly, and raifing that part of the belly, where the has the inftrument mentioned before, after forming a right angle with her body, fhe fixes it, with fuch ftrength, that it faftens to the hardeft earth, and even in ftone ; fhe has all the neceffary aparatus to make a perforation, but this alone would not anfwer the purpofe, a place being ftill wanted wherein the may depofit her eggs.

This hollow cavity is made in about two hours; fhe then begins to fhift the earth underneath; and emits the glutinous fubftance. Having thus kneaded the earth in-
to a fubftantial pafte, and fmoothed the floor with her trunk, fhe lays the firft egg, then renews the operation and lays more, with admirable order, and after various repetitions, completes the whole in about four or five hours; next covering the fuperior aperture with a glutinous compofition, the ftructure is perfect, with every advantage againft the inclemency of the weather, or any hoftile invafion.

The female is now overcome with fatigue, few having ftrength, like the male, to feek after refrefhing waters; but, exhaufted and fpent, they expire clofe to their progeny, exhibiting a melancholy fight to the labourer; who, from their appearance, foretells the mifchiefs to follow, without being able to prevent them ; forming an idea of the hidden enemies, who are to devour his harveft, from the multitude of carcafes he finds difperfed in the fields.

I cannot omit one circumftance, obferved by many others, as well as myfelf; and that is, when the females are bufy in laying their eggs, or in turning the earth, a male would immediately fix on her back, another male upon him, and another befides. Sometimes I have feen fix males piled upon one another, over one female ; the peafants pretended it was to give her more weight and ftrength to open the ground; but this could not be the reafon, it feeming rather a moment of fury, as obferved a mongt
mongft animals ; the more as I obferved, that notwithftanding the great number of females in 1754, that of the males was fill greater, even before they took wing, fo as to be two or three hundred males to one female, and when they fallied out of Eftremadura, to ravage La Mancha, I think I can take upon me to fay, there were twentymales to a female; their fex is eafily diftinguifhed by their body and trunk, which induces me the more readily to give weight to my conjecture, from the great fuperiority of numbers in the males, who, luckily for mankind, are feemingly difappointed in their purfuits.

The egg which inclofes the embryo, has the fame cylindrical fhape as the repofitory it is laid in, being a membraneous cylinder, one linelong, very white and fmooth. They are placed afide each other, rather obliquely, the head, as in others being neareft the part where it is to come out. The time of hatching varies according to climate, thofe that are in high and mountainous places, being generally later than thofe on the plains. I faw legions of them fkipping about at Almeria in February, becaufe the climate is fo mild there that moft kind of greens are nearly over at that time. In Sierra Nevada they only begin to appear in April, and in La Mancha they were hardly animated in May, when there were no greens yet in the market of San Clemente. So that they form a certain thermometer to judge of the warmth of the air.

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From thefe various fituations proceed thofe immenfe fwarms of locufts which appear fucceffively in June, July, and Auguft ; but as they always lay their eggs in barren places which require a certain additional warmth, and temperature, to hatch them, it will account for their not appearing fo frequently in cold climates, except fuch cafual fwarms of them as may have been wafted there by the winds.

When they firlt come out of the egg, they are black, of the fize of a gnat, and gather in great heaps at the foot of fhrubs, particularly the Jpartum or matweed, continually leaping upon each other, and occupying a fpace of three or four feet in circumference, two inches high. The firft time I beheld this fight, it furprized me exceedingly, to obferve this moving body, like a mourning fcarf waving about, as at this period they only live upon dew, and are frifking about to catch it. For a few days they move at a very little diffance, their limbs being weak, their wings very fmall, and their teeth not fufficiently frong to bite the grafs. In about twenty days, they begin to feed on the youngeft fhoots of plants, and as they grow up, they leave the fociety of each other, and range further off, confuming day and night every thing they fix upon, till their wings have acquired a full degree of flrength; in the mean time, they feem to devour, not fo much from a ravenous appetite, as from a rage of deftroy-

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ing every thing that comes in their way. It is not furprifing, that they fhould be fond of the moft juicy plants and fruits, fuch as melons, and all manner of garden fruits, and herbs, feeding alfo upon aromatic plants, fuch as lavender, thyme, rofemary, \&c. which are fo common in Spain, that they ferve to heat ovens; but it is very fingular, that they equally eat muftard feed, onions, and garlic ; nay, even uponhemlock, and the moft rank and poifonous plants, fuch as the thorn apple (a) and deadly night fhade (b). They will even prey upon crowfoot, whofe caufticity burns the very hides of beafts; and fuch is their univerfal tafte, that they do not prefer the innocent mallow to the bitter furze, or rue to wormwood, confuming all alike, without predilection or favour, with this remarkable circumftance, that during the four years they committed fuch havock in Eftremadura, the love apple, or lycoperficon folamum of Linnæus; was the only plant that efcaped their rapacious tooth, and claimed a refpect to its root, leaves, flowers and fruit. Naturalifts may fearch for their motives, which I am at a lofs to difcover, the more, as I faw millions of them light on a field near Almaden, and devour the wool-

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## TRAVELS THROUGH SPAIN.

len and linen garments of the peafants, which were lying to dry on the ground. The curate of the village, a man of veracity, at whofe houfe I was, affured me, that a tremendous body of them entered the church, and devoured the filk garments that adorned the images of faints, not fparing even the varnifh on the altars. The better to difcover the nature of fuch a phænomenon, I examined the ftomach of the locult (a), but only found one thin and foft membrane, with which and the liquor it contains, it deftroys and diffolves all kinds of fubftances, equally with the moft cauftic and venomous plants, extracting from them, a fufficient and falutary nourifhment.

Out of curiofity, to know the nature of fo formidable a creature, I was urged to examine all its parts with the utmoft exactnefs: Its head is of the fize of a pea, though longer, its forehead pointing downwards, like a handfome Andalufian horfe, its mouth large and open, its eyes black and rolling, added to a timid afpect not unlike a hare. With fuch a daftard countenance, who would imagine this creature to be the fcourge of mankind! In its two jaws, it has four incifive teeth, whofe fharp points traverfe each other like fciffars, their mechanifm being fuch as to gripe or to cut. Thus armed, what can
(a) Swammerdam tells us, the locuft is of the ruminant kind, thinking to have difcovered in them a triplicate fomach, like thofe animals; but he may have been deceived, and feen one thing for another, or examined locuffs different from thefe of Spain.
refift a legion of fuch enemies; after devouring the vegetable kingdom, were they, in proportion to their ftrength and numbers, to become carniverous like wafps, they would be able to deftroy whole flocks of fheep, even the dogs, and fhepherds; juft as we are told of ants in America, that will overcome the fierceft ferpents.

The locuft fpends the months of April, May, and June, in the place of its birth; at the end of June its wings have a fine rofe colour, and its body is ftrong. Being then in their prime, they affemble for the laft time, and burn with a defire to propagate their fpecies; this is obferved by their motions, which are unequal in the two fexes. The male is reflefs and folicitous, the female is coy, and eager after food, flying the approaches of the male, fo that the morning is fpent in the courthip of the one, and the retreat of the other. About ten o'clock, when the warmth of the fun has cleared their wings from the dampnefs of the night, the females feem uneafy at the forwardnefs of the males, who continuing their purfuit, they rife together five hundred feet high, forming a black cloud that darkens the rays of the fun. The clear atmofphere of Spain becomes gloomy, and the fineft fummer day of Eftremadura more difmal than the winter of Holland. The rufling of fo many millions of wings, in the air, feems like the trees of a foreft,

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reft, agitated by the wind. The firft direction of this formidable column is always againft the wind, which if not too ftrong, it will extend about a couple of leagues; they then make a halt, when the mof dreadful havock begins ; their fenfe of fmell being fo delicate, they can find at that diffance, a corn-field, or a garden, and after demolifhing it, rife again, in purfuit of another: this may be faid to be done in an inftant. Each feems to have, as it were, four arms and two feet; the males climb up the plants, as failors do the fhrouds of a fhip; they nip off the tendereft buds, which fall to the females below. At laft, after repeated devaftations, they light upon fome barren ground, and the females prepare for laying their eggs.

What a difmal fight for a poor farmer, after having been vifited by fuch cruel guefts! A fenfible man, amongft them, on viewing his corn-fields, where nothing was now left but chaff, thus expreffed himfelf; "If thefe creatures were not fo coy, and would " fuffer the embraces of their mates, in the country " where they were hatched, we fhould not be loaded with " fuch dreadful misfortunes; but, like us, they fear " death, and ftrive to prolong life; for which reafon, "they fhun the advances of the males, knowing, that: " afterward nothing is left, but to depofit their eggs " and expire!"

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We learn, by tradition, as well as from hiftory, that thefe locufts have been a plague to the meridional provinces of Spain time immemorial. I remember to have read in an old Spanifh novel, the following queftion, "which was "the animal that refembled moft all other animals?" the anfwer was, "the locuft ; becaufe he has the horns " of a ftag, the eyes of a cow, the forehead of a horfe, the " legs of a crane, the neck of a fnake, and the wings of " a dove."

However puerile this may appear, it proves the great length of time they have been known as well as dreaded. Many old people affured me, when fo much mifchief was done in 1754 , it was the third time in their remembrance, and that they always are found in the pafture grounds of Eftremadura, from whence they fpread into the other provinces of Spain. They are certainly indigenous, being of a different fhape from thofe of the north or the Levant, as is evident in comparing them with fuch, in the cabinets of natural hiffory. The locuft of Spain is the anly one that has rofe-coloured wings : befides, it is impoffible they can come from any other part; from the north it is clear they do not, by the obfervation of fo many ages; from the fouth they cannot, without croffing the fea, which is hardly poffible, by the fhortnefs of their flight, and, like birds of paffage, they would be known. I once faw a cloud of them pafs over Malaga,
and move towards the fea, and go over it, for about a quarter of a league, to the great joy of the inhabitants, who concluded they foon would be drowned; but to their difappointment, they fuddenly veered about towards the coaft, and pitched upon an uncultivated fpace furrounded with vineyards, which they foon after quitted. When once they appear, let the number demolifhed be ever fo great, the proportion remaining is fill too confiderable ; therefore, the only way to put an end to fuch a calamity, is to attack them beforehand, and deftroy their eggs, by which means they might be totally extirpated (a).

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## TRAVELS THROUGH SPAIN.

## L E T T E R IV.

Of the barren and wretched diftrict of Baluecas, in Eftremadura.

THE territory of Batuecas, fituated on the confines: of Caftile and Eftremadura, near Portugal, has given ample foope to the fanciful conceits of different writers, relating to its imaginary difcovery, and whether or not as fuppofed, it was an unknown land, inhabited by Pagans, blinded by ignorance, without the leaf knowledge of the Chriftian religion. This diftrict we are now going to explore, is fourteen leagues to the fouth weft of Salamanca, about eight leagues eaftward of Cuidad Rodrigo, and twelve to the north weft of Plafencia, forming a plain, or more properly, a moft difmal and horrid gully at the foot of that famous mountain, where flands the noted convent called La Pena de Francia. The fituation of this place infpires every idea of gloom and melancholy, clofed in by jagged mountains, where hardly a tree is to be feen, or the leaft appearance of vegetation : on the contrary, numberlefs precipices, occafionally choaked up by broken maffes of ftone, detached infenfibly from the rocks, form the moft frightful fcene the mind can conceive :

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ceive. Such is the true fate of Batuecas, horrid by nature ; rendered fill more fo, by ignorance and folly. The itinerary from Plafencia to the convent of Batuecas, is as follows : Plafencia to Aigal four leagues; Mohedas one; Cafar de Palomero one; Cambroncino two; Vegas de Coria two ; Las Meftas one; and to the convent of Batuecas half a league.

Between Plafencia and Aigal, the hamlets of Oliva and Gijo de Granadilla, appear on the right, and Santibanez el Baxo, on the left, with woods of oak and cork trees. You crofs the river Ambroz, or de Caparra, and pafs by the Puerto del Gamo, before you reach Cafar de Palomero. Then enter the melancholy diftrict of the Jurdes, being a divifion of what is generally called Batuecas; but in any part of this wretched country, if you afk whereabout is the Jurdes, fome will tell you, a little further on, and when you proceed, another informs you, it is at a fmall diffance behind; nobody being willing to acknowledge himfelf an inhabitant of the unhappy country of the Jurdes.

The valley of Batuecas, was idly confidered as an unknown part of the world, by thofe who gave into the fabulous accounts invented in the reign of Philip the IId. though an enlightened age in the annals of Spain. As a further proof of the ideas of the times, we have only to
look back on the report made by Galarza, bifhop of Coria, to whofe diocefs this country belongs, when he gave leave to the Carmelite friars to build a church there, which document is to be found in the records of that houfe. "I give thanks to the Almighty (fays this pre" late) that in fo defolated and wretched a country, where " it appears from certificates, which I have among the " records of my bifhopric, that about forty years ago its " inhabitants were Gentiles, deceived by the devil with "vifible apparitions, his majefty has now ordered a "fanctuary to be built, to which I give my concur"rence with great fatisfaction, and fhall as far as lies " in my power, contribute towards fo pious a founda"tion."

This record being pofitive, and the good bifhop having given ear to the many exaggerations and falfe reports, obtruded on the public, might have confirmed thefe fables in the minds of the people, which infenfibly fpread themfelves over Spain, and extended even amongft foreign nations. They were the more eafily propagated at Batuecas, amongft ignorant people, in want of paftors and Chriftian inftruction; their neighbours then took the alarm, and would not venture to move forward with their flocks. In more remote villages thefe reports loft nothing by the way, fo that in many places, the poor harmlefs inhabitants of Batuecas were looked upon as favages,

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favages, deftitute of all information, beyond their bleak hills, where they lived in the groffeft ignorance, and were fuppofed to worfhip the devil.

It was given out as an incontrovertible fact, that a certain lady, belonging to the illuftrious houfe of Alba, feduced by her lover, had fled to thefe parts, and firtt made the difcovery, meeting with a barbarous people, whofe manners, and even language, were ftrange to them, except a few Gothic expreffions. Such were the tales believed at Salamanca, the feat of a famous univerfity ; at Madrid, the refidence of the court, and in many other places of note. It ferved as a foundation for novels, as well as dramatic performances, repeatedly exhibited on the ftage, and propagated all over the kingdom.

Soon after the friars had fettled themfelves in this place, and fpoken to the graver fort of people, concerning thefe matters, many of them laughed at their fimplicity, while others expreffed their indignation againft the inhabitants of Alberca, whom they reproached with being the authors, through motives of jealoufy, of fuch a ridiculous and invidious report.

The town of Alberca is the principal place in the territory of Batuecas, and not above a league diftant from this valley: its inhabitants could not be fuppofed igno-
rant of the fallacy of the report, as their flocks were conflantly grazing there ; yet, fo great was the prejudice and ignorance of the people, that Thomas Goncales Manuel, a clergyman of the town of Alberca, thought it neceffary to juftify his countrymen, and in 1693 , publifhed an effay in their defence, under the title of "A true narrative and apologetical declaration of the antiquity of Batueeas;" in which he ferioully refutes the illufion by authentic documents and records, belonging to the town of Alberca, and its neighbourhood.

The late father Feijoo faid every thing neceflary on this fubject, in his critical works $(a)$, intended to explode the many vulgar errors that prevail amongtt his countrymen, adding his aftonifhment that they fhould have been corroborated by national writers, fuch as Nieremberg (b) and Alonfo Sanchez (c); by which means they even got credit abroad, and geographical writers of no fmall reputation ventured to copy them; particularly Thomas Gorneille, and the author of the Great Atlas, as well as Moreri in his Dictionary.

The whole of this diftrict may properly be reduced to an interfected valley of about a league in length, fometimes fo confined as juft to leave room for the paffage of
(a) Theatro critico, tom. 4 , Difc. $\mathbf{x}$.
(b) Nieremberg cuoriofa philolophia, lib. 1. cap. 35 .
(c) De rebus Hirpanix, lib. 7. cap. 5 .

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the river that gives name to the valley: This then was that unknown country fo furprizingly dreaded, where it is certain no others dwelled but a few wretched fhepherds, and fome miferable peafants, in forlorn huts, furrounded by precipices, divefted of all intercourfe with their neighbours, in a wild romantic fituation, which the moft fanciful pencil would find difficult to delineate, or the language of Shakefpeare to defcribe.

The other valley called, "of the Jurdes," which may be about four leagues long, and three in breadth, yields not to the former in wretchednefs and mifery. During the whole journey from Alberca to Batuecas, nothing is to be feen but a repetition of jagged and illfhapen rocks, with their rugged peaks, like fo many turrets and battlements, towering one over the other, as far as the eye can extend, forming dreadful gullies where the river forces its way, whofe waters are clear, abounding with trout, and having grains of gold in its fands, which the peafants know well how to look after, and fell at Plafencia, Cuidad Rodrigo, and Salamanca (a), which is a great refource to them in this forrowful vale; where during winter, the fun's rays can hardly penetrate for above four hours in the day. To increafe ftill further its horror, the hills are perforated with difmal caves, one above the o-
(a) The fame happens in the river Sil, in Galicia, where the poor pcople are employed in this manner, after floods.

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ther, and fome fo extenfive, that three or four hundred Theep may eafily take fhelter there; to complete this picture of diftrefs, let it fuffice to add, that this country is the refort of numerous birds of prey, and affords fhelter to bears, wolves, wild cats, and weazles, which defroy all the hares and rabbets, with the addition of fnakes, ferpents, and many obnoxious reptiles, particularly one fort of ferpent, which darts at its prey with great violence, and perhaps may be of that fpecies called $\mathfrak{F a c u l a}$, or $\mathfrak{F a c u l u m}$ ferpens, defcribed in the acts of the Leopoldine academy, which mentions one of thefe to have darted from a ditch, to a confiderable diftance, and fixed itfelf upon the arm of a peafant. But why need I enlarge any further on fo dreary a fpot, or defcribe fo barren a country, where even grafs is not to be feen! here and there a folitary ciftus, and nothing but furze, the only refource of goats and fome bees, who are of fervice merely on account of their wax, as their honey is neither valuable for its colour nor flavour, having all the bitter tafte of their food.

In this wretched country the Carmelite Friars pitched upon a little plain on the banks of the river, and built their convent in 1599 , but their houfe has nothing worthy of defcription; and though the very fight of a diftreffed traveller at their gates, fhould be fufficient to engage the benevolent minds of thefe holy fathers, they

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are feldom in a hurry to open their doors, and none are admitted or intitled to hofpitality, but fuch as are provided with letters of recommendation and pofitive orders from the provincial or general of their order.

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L E T T E R \quad V \text {. }
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The convent of Jufte, in the Vera of Plafencia, famous for the retreat of the emperor Charles the Vth.

WERE we to believe the exaggerated accounts which Spanifh writers in general give of their country, we fhould be inclined to imagine the whole kingdom was a paradife flowing with milk and honey, where nature had lavifhed her moft luxuriant productions; but whenever the traveller happens to pafs through the interior parts of the kingdom, and to form his judgment from perfonal infpection, he will then be convinced that many of thefe affertions require a confiderable lowering before they are reduced to the fimplicity of fact and of truth, for though it muft be allowed that the fouthern parts are fertile, that the plains of Valencia are delightful, and that the Bifcayners have been indefatigable in cultivating their rugged mountains, yet when we take a general furvey of the kingdom in the review of a journey through Spain, it will be found that barren hills and naked rocks and mountains, form a confiderable part of the profpect, diverfified only here and there with a few fcattered fpots of imperfect cultivation:

Many diftricts fill remaining uncultivated, and the rivers overflowing their banks without any impediment, in the fame manner as they did in the earlieft ages of the world; as if they were to receive every bleffing from Providence without the leaft trouble or fatigue (a). Amongft innut merable inftances which might be alleged in fupport of this affertion, I fhall confine myfelf to one given by the Spaniards themfelves, of the fo much celebrated valley of Plafencia, in Eftremadura, reprefented by many as the moft delightful place in the world, felected by the great Emperor Charles to finifh his days, and fuppofed to be feated in an enchanting vale, covered with all manner of fruit trees in the higheft perfection, where the very air was embalmed with the moft delicious odours; but alas! this is far from being the cafe, as the judicious Spanifh writer (b), who lately vifited that province, informs us, who complains loudly of its moft miferableftate, and from his authority, therefore, I fhall venture to pronounce on its prefent moft wretched and neglected condition.
(a) Don Antonio Ponz reproaches his countrymen very feelingly for their neglect on this fubjed in the following lines; "Los rios regularmente corren entre nos otros por donde. Dios los encamino a principio del mundo, como fi no hubiera dexado con grandiffima providencianada que eftudiar en el cultivo de las tierras, fino que todo hubiera de fer facil. No es aff, ni tal quifo, fobre cuyo punto dijo-bien uno de los mejores poetas."

Pater ipfe colendi

[^3]After quitting the city of Plafencia, and croffing the river Xerte, you pafs over the hill of Calcones, oppofite the city, then defcend into the territory of the Vega, leaving on your left the villages of Garguera, Barrado, and Arroyo Molinos; you next go through the village of Pafaron, five leagues from Plafencia, and come to a pleafant fituation called La Magdalena, where there is a good farm houfe, which formerly belonged to the Jefuits: you are now at a league's diftance from Jufte, and to go there you traverfe a woody country with a few chefnut trees, and pafs feveral brooks, where they catch excellent trout. The convent of Jufte is fituated nearly in the centre of the Vera, on the brow of a fleep hill, which protects it from the North wind, and with other mountains forms that chain which is called the Puerto de Tornavacas, joining with the hills of Arenas, Puerto del Pico, and others. Neither thec onvent nor church have any thing remarkable, and would have paffed on to future ages in oblivion, had it not been for the diftinction fhewn them by the great Emperor who ended his life in this folitary place. Over the great altar in the church, they have a copy of that famous picture called the glory of Titian, which ftood formerly here, and was removed to the Efcurial by exprefs command of the Emperor, who ordered that the original fhould be fixed in the fame church with his remains. The following infcription is feen on the wall,

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in a corner of the garden, underneath the arms of the Emperor.
"EN ESTA SANTA CASA DE S. HIERONIMO DE JUSTE "SE RETIRO A ACABAR SU VIDA, EL QUE TODA LA "GASTO EN DEFENSA DE LA FE Y CONSERVACION DE "LA JUSTICIA, CARLOS V. EMPERADOR REY DE LAS "ESPANAS CHRISTFANISFMO, INVICTISIMO. MURIO A "2I DE SETIEMBRE DE 1558 ."

In this holy honfe of St. Ferom of Fufte, ended his days, he, who Jpent the whole of them in defence of the faith, and in support of juffice, Charles V. Emperor, King of Spain. Mof chriftian, invincible. He died on the 21 ft Sept. 155 ?.

Thefe are the only traces left here of that great Emperor, who once filled the world with the glory of his deeds. The ruined decorations of the garden and ponds feem to intimate their priftine ftate in happier days, and the feveral plantations in the Vera, watered by numberlefs brooks, might onee have exhibited a more pleafing appearance.

A diftinction mult be made between the Vera of Plafencia and the $V$ alle de Plafencia. The valley extends from the city to the Puerto de Tornavacas, upon a fraight line from Eaft to North, the length of nine leagues, and fo level, that the whole extent lies open to your view, as far as the Puerto, clofed by high mountains, dividing on the right hand the Vera from the Valle, and on the left

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die hills between the valley and the road to Banos, and finally thofe of Tornavacas, whofe high tops are always covered with fnow.

The villages belonging to the valley are Afperilla, Ca fas del Caftanar, El Torno, Valde Aftilla, Cabrero el Rebollar, Navaconcejo, Cabezuela, Badillo, and Xerte, which gives name to the river, as Tornavacas does to the Puerto, but at prefent every branch of cultivation is at the loweft ftate, without even the appearance of an orange or a lemon tree, if we except two or three blighted ones at the convent of Santa Cruz de Tabilla, where the country is a defart : and what is fill worfe, the mountains and paffes are filled with affaffins and robbers, to the great terror of the inhabitants and travellers. The Vera is no better, and affords the mof melancholy afpect imaginable ; amongft the various experiments to deftroy the worms that ruin the chefnut trees, fire was the laft expedient, in fo much, that the trees, fcorched and half burned, now refemble the oaks ftruck by the thunder of Jove, inftead of the golden age of the poets, and their whole agriculture is reduced to the fowing a few peas, with fome miferable fcraps of a vineyard. The villages of the Vera are Piornal, Barrado, Garguera, Arroyomolinos, Pafaron, Gargantalolla, Xarandilla, Gijo de Arandilla, Xarais, Robledillo, Aldeanueva de la Vera, Viandar, Villanueva, El Ofar, and Cuacos: This laft being near to Jufte,

Jufte, and diftinguifhed by the favage difpofition and ferocity of its inhabitants ; to fuch a degree as to overcome the patience of that great perfonage who lived in their neighbourhood, by offering him every affront their low fation would permit, taking his cows if they happened to fray into their diftrict, and fealing the trout referved for his ufe; and to crown all, flinging fones at Don John of Auftria, the Emperor's fon, whenever he: ventured to tafte of their cherries.

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## L E T T E R VI.

## Further obfervations made in the courfe of another tour by Don Guillermo <br> Boules from Almaden to the filver mine of Guadalcanal.

> ISET out from Almaden for the village of Alcocer; in the plain there is a lead mine which has never been worked; after an hour's journey we came to the mountain of Lares, where there are ruins of a Moorifh cafle; here I faw for the firf time the true Spanifh emery, which before I only knew by fpecimens in the cabinets of Paris ( $a$ ) ; the hill where it is found, is of fandftone, mixed
(a) Emery is a fort of metallic flone, found in moft, or all mines of metals, but chiefly in thofe of iron, copper, or gold, of which three kinds are ufually diffinguifhed; the Spanifh, red, and common emery. The firft fort is found in the gold mines of Peru, and other provinces of Spanifh America. It is judged a kind of Marcafite of that rich metal, being ftreaked with little veins and fpecks of gold, for which reafon the king of Spain prohibits the exportation of it, whereby it is rendered exceedingly fcarce, to the great regret of the fearchers after the philofophers fone, who build great hopes in the tranfmutation of this precious metal. The red emery is found chiefly in the copper mines of Sweden and Denmark. The common emery is taken out of iron mines, and is almoft the only fort ufed in England, the confumption of which is very confiderable amongt the armourers, cutlers, lockfmiths, glaziers, lapidaries, mafons, and other mechanics, fome of whom ufe it to polifh and burnifh iron and fteel works; others to cut and fcallop glafs, marble, and precious flones.

The common emery is of a brownifh colour, bordering a little on red, exceedingly hard, and of courfe difficult to pulverize. The Englifh are the only people that have got the art of making it into powder, which is done by mills contrived for the purpofe, and in that flate o they fend it to their neighbours. Emery fufed with lead and iron hardens them. It increafes
with quartz: this mineral is blackifh, refembles the polifh given by thebloodftone, and is fo hard that it emits fire when ftruck with fteel. The Moors worked this mine, but more perhaps, for the fake of the gold which it probably contains, than for any other motive; and as their method is not to be found in any Arabic book that I know of, either printed or manufript, I fhould think the following trial might be made. Let the ore be firft foftened by fire and water, then expofed to the air for four or five months or more, that the phlogiton might feparate, leaving the matter in a proper fate to extract the metal by fufion. I found two forts of emery in Spain, one in a ferruginous ftone, and the other in fand loaded with iron (a).
and heightens the weight and colour of gold. It is ufual to mix a litte of it with the gold from Madagalcar, which is naturally pale and foft. It is brought in Englifh !hips from the Levant, particularly from the ifland of Naxia, where it cofts but a crown the twenty-eight quintals; the quintal weighing 140 lb . which is therefore what they ufually ballaft their fhips wilh.----Rolt's DiA. of Commerce.
(a) Notwithfanding what is faid here relating to emery, Mr. Bowles, in page 364 of his work, further informs us, that he found five forts of emery in Spain. Firft, That of Reinofa. compofed of targe grains. Secondly, Of very fmall fine grains, found at the foot of Guadarrama mountains, and ufed at St. Ildefonfo, for polifhing of cryflals. Thirdly, The one of Alcocer, mentioned above, worked by the Moors, which has no grain, but on breaking the ftone is fmooth like an hæmatite, and contains a little gold. Fourhly, A fpecies of emery, as it were, marbled in quartz, Found about Molina de Aragon, and in Eftremadura, in a diftrict granted by the king, to Don Pedro Rodriguez Campomanez, containing a little gold, but not worth the expence of fearching for. Fitthly, Another fort difperfed in many parts of Spain, particularly in the lordfhip of Molina, between Tortuera and Melmarcos, in loofe, black, heavy flones, feeming to be the refidue of fome rock or mine, and having when pulverized, hard pungent and mordicant particles.

Between

Between Alcocer and Orellana, there is aniron mine in fandfone, with the fineft red ocre in the world. A fteep mountain muft be croffed to arrive at Nabalvillar, where there are blood ftones, and a fpecies of black earth, which fhines when rubbed in the hand, but is only a blend or dead mineral of no ufe. From hence you go to Logrofan, at the foot of a chain of hills which run from eaft to weft, called La Sierra de Guadalupe. In coming out of the village, a vein of phofphoric ftone croffes the road obliquely from north to fouth. It is a whitifh ftone without any flavour. When pounded and thrown on the fire, it burns, and emits a blue flame, without any $\operatorname{fmell}(a)$. In the mountain to the north of this village, there is a filver mine in a whitifh ftone, with white mica, and in the mountain of Guadalupe to the fouth, there is a copper mine in a flaty fone, jafpered with blue and green. An extenfive uncultivated plain lies half way between Nabalvillar and Logrofan, covered with the kermes oak; but before you reach Logrofan, the fandfone difappears, and the houfes of that village are built with granite from the hills of Guadalupe.

After having gone out of our road to examine the phofphoric fone, we returned again to Orellana, at which
(a) Mr. Bowles fays it is the phlogitton of the coal that caufes this flame, but this explanation cannot be admitted; for it is well known that the phofphoric ftones emit a blue light. when heated, without being expofed, to any fubftance, fuppofed to contain phlogifton.
place
place we croffed the Guadiana, where its bed is very fhallow, in order to fee a lead mine two leagues farther to the fouthwatd, on the road to Zalamea $(a)$. This mine is found on a fmall eminence called Vadija, or Walle de las minas ; the vein runs from north to fouth, cuts the flaty ftone, and is feen in a bed of quartz, which is difcovered from a brook about two hundred paces from the firft fhaft, where the vein does not follow as I faid above, but Atrikes off from eaft to weft. The miners loft it by croffing the brook from north to fouth, when they fhould have followed it according to the direction of the foft flate as I did, and found it again.

Continuing two leagues further to the fouthward from this mine towards Zalamea, there is a filver mine without any lead in the fpar; this vein is found in a rock of granite, cut contrary to its natural direction, and confifts of fpar, quartz, white and yellow pyrites, with a fhining, black, fmall pyritous matter. The country, for many

[^4]leagues
leagues round, is replete with immenfe pieces of granite ${ }_{\text {, }}$, lying above ground, like the rocks of Fontainebleau; the land produces a great deal of corn, and is well furnifhed with oak.

Thefe two mines being fo near to each other, might be reciprocally advantageous, as the lead would be ufeful for refining the pyritous filver. In the one which is abandoned, the remains of a crucible and reverbatory. furnace are fill to be obferved; they quitted it on being: oyerwhelmed with water, but it might eafily be cleared. again, it being fituated on an eminence, called Chantre, as the lead mine is on another, 300 feet higher than an brook, where, in fummer, there is feldom any water.

From Zalamea we paffed an extenfive plain of eleven leagues, called. Vinolas de Zalamea, and came to the village of Berlanga; where, entering upon the Sierra Morena we arrived, in four hours, at the famous town of Guadalcanal, obferving great quantities of fumach in thefe parts, which is cut in the month of Augut; after which the leaves and flowers are pounded and fold to the: curriers of Seville, who ufe it for dreffing of leather (a).

[^5]LETTER

LETTER VII.

Defription of the famous Jitver mine at Guadalcanal in Elremadura.

THE town of Guadalcanal is the laft to the fouthward in the province of Eftremadura, only feparated from Andalufia by the fmall fream of Benalija. The famous and boafted filver mine of Guadalcanal ( $a$ ), fo celebrated by hiftorians, and of which fuch various and uncertain accounts have been publifhed, is fituated about half a league diftant from the town of that name, belonging to the knights of Santiago, and furrounded with high mountains. The firft difcovery of this mine, according to the
(a) This is not Mr. Bowles's account of the Guadalcanal mine, but I have reafon to think it a more perfect one, giving the real flate and prefent condition of the mine from whence a judgment may be formed of Mr. Bowles's conjectures. He fays there are about 800 families at Guadalcanal; but they exceed a thoufand, befides a convent of friars, three convents of nuns, and fixty ecclefiafticks, who do not enter into the contribution roll, though they have houfes and families. He mentions the mine being a league diflant from the town, whereas it is only a mile and a half. He tells us, Guadalcanal is a very dry fpot, though the inhabitants allege that there is not a more moift and damp town in all Efremadura. In the fquare there is one of the richeft frings of excellent water that can be met with any where, and all the houfes have wells at a fmall defth. There are four fountains in different parts of the town, which have no connedion with the principal fpring in the fquare, befides feveral fmall fpouts of water continually running in the frreets, that make the houfes fo damp, that the lower apartments cannot be inhabited without inconvenience before July. Though he fays the galleries of the mine were in perfect good order, he could not have a juft notion of them, proceeding no further than 50 feet, for the information of Don Jofeph de Carvajal, minifler of fate at that time.

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beft information, was made by a farmer of the town of Guadalcanal, whofe name was Delgado. This man accidentally met with the ore, as he was ploughing his fields : being ftruck with its brightnefs, he carried it home, after carefully covering the place, and then fet out for Seville, where he was informed it was a valuable ore. This is faid to have happened in the year 1509 , foon after the difcovery of America by Columbus, and is looked upon as the moft ancient record of this mine. The furprifing accounts which ufed daily to arrive from America, relating to thofe new difcovered mines, added to the little information Delgado was able to procure at home, infpired him with the fame ardour as many of his countrymen, and engaged him to repair thither for further inflruction, where, after obtaining all the lights in his power from the American miners, he returned again to Spain, made a difcovery to the court of the mine of Guadalcanal, foliciting a grant, and propofing to work it at his own expence. Though it might be fuppofed, this mult have anfwered his purpofe, nothing appears from hiftory, either with refpect to himfelf, or his heirs; and what is fill more fingular, the mine feemed to be without any proprietor in the reign of Philip the fecond, which gave rife to the feveral laws promulgated in his reign, under the title of Ordenanzas de Minas, and are to be found in the Recopilacion, or code, publifhed by that

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prince, which with refpect to mines, are the only laws extant in the kingdom.

The Fuggers of Augfburg, obtained a grant of them from Philip the fecond, after they had been worked for fome time on the king's account. Several Spanifh writers affert, that immenfe riches were taken out of this. mine, particularly Carranza, in his treatife on Spanifh coins (a); affirms, that one week with another, they extracted the value of fixty thoufand ducats. The hiftory of the houfe of Herafti fays, that this mine had produced eight millions of pefetas $(b)$, which were employed in building the Efcurial. Be this as it may, the chief fhaft in the mine acquired the name of Pozo Rico, "The rich fhaft", and continued in the hands of the Fuggers and their heirs, until 1635 , when they totally abandoned it, after having gone a great depth, and formed ten galleries, though it is furmifed they continued it for political reafons, to cover other projects, as they folicited confiderable loans to purfue their works, and when they relinquifhed it, reports were fpread, that it contained feveral rich veins of filver ore, which none could contradict, for in lefs than a month the mine filled with water within thirty feet of the furface. This opinion however has

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been handed down from one to another to the prefent time.

In 16 go , Raphael Gomez, a Jew, obtained a grant of this mine from Charles the fecond, and formed a company with fome Portugueze merchants of his tribe. They attempted to drain Pozo Rico, but for want of a fufficient capital, engines, and intelligent workmen, they could not drain further than the third gallery, and failing in thein future attempts, were charged with duplicity and fraud; Gomez was arrefted and carried prifonerito Seville, where he underwent a long and fevere confinement, though he printed his cafe and defence, but died before the bufinefs came to an iffue.

The diftracted ftate of king Charles's finances, fuggefted to his minifters the idea of continuing the works of thefe mines; on this account, and to give this operation a more plaufible appearance, the guilt of Gomez was to be made more confpicuous ; Don Alonfo Carillo Rueda, of the council of finances, was named fuperintendant of the mines, and ordered to repair thither directly, and carry on the works on his majefty's account; following the directions of a wandering friar lately returned from America, appointed chief engineer, on a fuppofition of his knowledge in mines. Carillo arrived at Guadalcanal in 1695 , and Gomez was arrefted as mentioned
tioned before; he then proceeded in his commiffion with all the deliberation and formality of the law, iffuing out orders, and multiplying writings at every ftep; they began to drain Pozo Rico, but never went further than the third gallery; ficknefs, want of money, and other impediments, baffled all their attempts; this famous mine was once more abandoned, and Carillo and his retinue returned to Madrid.

The death of Charles the fecond, the laft Auftrian monarch of Spain, and the fucceffion war which followed, prevented all further purfuits of this kind, till 1725 , when a new company was formed at Madrid, with frefh expectations of fuccefs. The draining of Pozo Rico was once more undertaken, but all their labours were fruitlefs. In this embarraffed fituation a new ray of light feemed to pierce the receffes of thefe hidden mines, and revive the drooping firits of the prefent adventurers, raifing them from a defponding anxiety, to the mof fanguine expectation. The perfonage who was to work this furprifing alteration, was no lefs a character than an Englifh lady of quality, of very high rank. In 1728 , lady Mary Herbert, daughter of the marquis of Powis, arrived at Madrid from Paris, where fhe had been concerned in the Miffiffippi fchemes, and by her acquaintance with the famous Mr. Law, had improved her talents and natural genius for enterprize, which engaged her


[^0]:    (a) The great indolence and negligence of our countrymen; with refpect to antiquities, fayss Don Antonio Ponz, generally engages fuch travellers as come to Merida, to fpeak flightingly of our want of tafte and little curiofity. In the year 1752, when Don Juan Williamfon vifited that city, he made no difficulty to declare, that if the King had made excavations at Merida, as Don Carlos had done at Naples, he concluded it would turn out, in a manner, a fécond Herculaneum. ---Viage de Efpana. Tom. 8. Madrid, ${ }_{177}$ 8.--This perfon here mentioned, was the Rev. Dr. Williamfon, chaplain of the Britifh factory at Lifbon, whom Ponz, by miftake, calls the Britifh ambaffador, at that court. Our envoy, at that time; was Mr. Gafters, who died, in Lifbon, in 1756, where I happened to be, when that city ftill lay in ruins, in confequence of the fatal earthquake, of the firt of November, 1755 .

[^1]:    (a) Thorn apple. Datura ferox of Linnxus,
    (b) Deadly night-fhade, or Dwale. Atropa Belladonna, Linn.---Solanum Lethale. Park. 346. Gerard 340 . The whole plant is poilonous, and children allured by the beautiful appearance of the berries, have too often experienced their fatal effects....-See a curious account of this plant in Dr. Withering's Botanical Arrangement, \&c. vol. 1.pag. 126.

[^2]:    (a) In the life of Dr. Thomas Moffet, prefixed to a work of his, intitled, "Health's improvement, London, printed for T. Ofborne, 1746 ;" mention is made of his Theatre of infects publifhed abroad in 159 , where, fpeaking of locufts, he particularly relates, how much the Spaniards were then afflicted with fwarms of them, that flew over from Africa, the news of which was received when he was writing that account. If to this occafional calamity, we add the frequent droughts to which their meridional provinces are fo fubject, and which caufe fuch diftrels amongtt the poor, it will be a great drawback from their boafted fertility.

[^3]:    Haud facilem effe viam voluit primufque per artem Movit agros, curis acuens mortalia corda. Virg. Georg. I..
    Viage de Efpana, tomo 3. Madrid ${ }_{1777}$.
    (b) Don Antonio Ponz.--.--See Viage de ESpana, tom 7. Madrid, 1778.

[^4]:    (a) The town of Zalamea is fix leagues from Aracena, in the very heart of the Sierra Morena. The country people have a tradition, that it was built by thofe perfons fent there by Solomon in queft of the filver mines, who named the place after him $\mathrm{h}_{9}$ in proof of which they affert that a very antient caftle juft by, is ftill called Caftle of Solomon. One of the villages in the juridicion of Zalamea is named Obiud, and the river near it Odiel, being Hebrew names, which I was informed of, fays a celebrated Spanifh writer, by a clergyman, as well as by antient people of the place; but this is not fo ealy to prove, or for me to give affent to, merely on their traditional relations. If it were true, that the Tharfis of fcripture was Tarteffus, then indeed it might be prefumed that the treafures were got from hence; for which I refer them to Goropius Becanus Lib. 7. Hifpanicorum. See Antiguedades de Sevilla. por Rodrigo Caro. Sevilla 1634 .

[^5]:    (a) The beft Sumach is that which is greenifh and new: Oporto in Portugal, being the place which furnifhes the mof, and generally fpeaking, the beft. Rolis Dict. of commerce.

[^6]:    (a) Licenciado Alonfo Cartanza Ajuflamíento de Monedas y reduccion de metales. Madrid, 629.
    (b) Valuing the pefeta at $10 d$. fterling, the eight millions above-mentioned will amount to $f .333,333,6$ s. 8 d. Aterling.

