themselves, suppressing the name of the ingenious Spaniard; but this person, whose name was Joseph Lucatelli, was a native of Carinthia, one of the provinces of the house of Austria, who having made his experiments before the emperor Leopold in 1663, at the castle of Laxemberg, near Vienna, obtained a certificate of its utility from the imperial court, and then came to that of Madrid, and performed other experiments equally fuccessful at the Buen Retiro, in the presence of Philip the 4th, from whom he obtained an exclusive patent for the fole vending of his plough for 24 reals plate in Europe, (about 11s.) and 32 reals plate (about 14s. 6d.) in America, of which a printed account was published by Lucatelli, at Seville, in 1664. A model of this plough was fent by Lord Sandwich, then ambaffador at Madrid, to John Evelyn, Esq; who presented it to the royal fociety, with a letter describing its use, which was inserted in the philosophical transactions of the 23d of February, 1669-70, and the model deposited in Gresham college.

Nothing can be more bleak and difmal than the general aspect of the country round the seat of its monarch, with a great want of trees, to which the Castilians have such a dislike, from a salse notion that they increase the number of birds to eat up their corn; as if this reason would not hold good in other countries, where shade is not so necessary, as it is in Castile, to support

the moisture of the soil; or that it was ever an objection in Valencia, a kingdom so fertile and wooded: the Castilians not reflecting, that the seeds of plants, and leaves of trees, afford nurture for infects, and birds, and prevent them from destroying the grain as they do in Castile, for want of other food; besides the advantage of fcreening the earth in hot weather, and preferving a due moisture after dews and rain; for without their aid, the scorching beams of the sun parch up the earth, and render it unfruitful; so that what little comes up is devoured by birds, in a climate where nature feems to have defigned it should be otherwise; for the climate of Madrid is not in itself averse to the propagation of trees, as may be seen by the public walks, and modern improvements and plantations. The old historians speak particularly of the woods, and of their advantageous fituation for forest beasts, as appears from a book written by king Alfonso el ultimo, called Libro de Monteria del Rey Don Alonso, in which that monarch extols the country near Madrid, for its shady situation and extenfive woods, well adapted for hunting the stag, wild boar, and even of bears (a). I de inqueste and and and

⁽a) Libro de Monteria por G. Argote de Molina 1582. This curious book was drawn up by the particular command of King Alfonso; Argote de Molina being only the editor. It contains three books, and is very serviceable for the right understanding the geography of Castile, and Leon in those days. Besides particular directions for breaking of dogs, and training them properly, there is a circumstantial detail of the various woods, and situations, proper for venary, and sorest beasts, understood under the title of Monteria, such as the bear,

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I shall not particularize the various improvements that have taken place of late years; however the new regulations and extension of commerce with their American colonies, are worthy of notice, particularly the open and free trade with each other granted in 1764, to the provinces of Peru, New Spain, Guatimala, and kingdom of Granada, in America. In order to render this plan more compleat, and facilitate the intercourse with Europe, eight packet boats for conveying letters were: built at Coruna, one to fail the first day of every month, with a mail for the Havana. Accordingly the first packet named the Cortes, sailed for the Havana the 1st of November, 1764. Five packet boats were established to sail from the Havana to Vera Cruz, from whence a post road was made as far as Mexico, with its necessary branches, and communications, with the different provinces; fo that letters come every month from those distant places, and often sooner, than from European courts. At Porto Rico, four galliots were established. for the correspondence of Terra Firma, and Peru, receiving the letters brought by the Coruna packet boats, and bringing back the answers, by which means they receive letters from Carthagena, and Santa Fe, as quickly as by

flag, wolf, and wild boar, which sport was the delight of Spanish princes, while they disregarded the beasts of the chace, such as the buck, sox, marten, and hare. His present Catholic majesty takes great pleasure in shooting wolves and wild cats.

the Havana. Two galliots were likewise stationed at Carthagena, for the correspondence between Porto Bello and Panama. To extend this advantage further to the fouthward, fix packet boats were appointed in 1767, to fail from Coruna to the river of Plate, and city of Buenos Ayres, from whence fix expresses were to proceed annually with the letters for Peru and Chili, and other provinces of those extensive dominions; all which has been conducted with fo much activity and spirit, that communications have been opened over the famous Cordillera of Chili, between that kingdom and Peru, and a regular post for letters kept up, in the most remote jurisdictions; where, before that period, even the very idea or name of a post-office was unknown. For the conducting of which, the general post-office have 25 vessels; viz. 14 from the Coruna to the Havana, Montevideo and Buenos Ayres; 5 from the Havana to Vera Cruz; 4 from Porto Rico to Carthagena; and 2 from Carthagena to Porto Bello.

The Royal cabinet of natural history, at Madrid, was opened to the public by his majesty's orders in 1775; a handsome house having been purchased, of which the first floor was appropriated for the royal academy of San Fernando, and the second for the purpose of receiving an ample collection of natural curiosities, which had

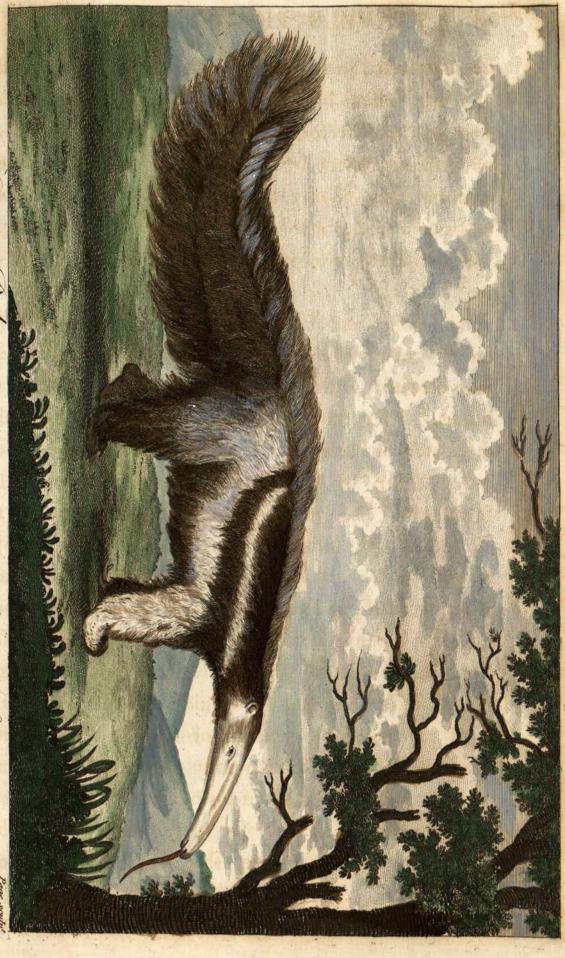
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been collected in Paris by Don Pedro Davila (a) a native of Peru, which his majesty has accepted of, and appointed him director thereof; and was also at the charge of bringing them from Paris. Every thing is ranged with neatness and elegance, and the apartments are opened twice a week for the public, besides being shewn privately to strangers of rank.

The collection of beafts and birds, at present is not large, but may be supposed to improve apace, if they take care to get the productions of their American colonies. They have the skeleton of an elephant that died lately at Madrid; also a little American ox stuffed, called Zebu, by Mr. de Buffon, and Zebulo by the Spaniards. The great Ant bear from Buenos Ayres, the Myrmecophaga Jubata of Linneus, called by the Spaniards Osa Palmera, was alive at Madrid in 1776, and is now stuffed and preserved in this cabinet. The people who brought it from Buenos Ayres, fay, it differs from the ant-eater, which only feeds on emmets and other infects; whereas this would eat flesh, when cut in small pieces, to the amount of four or five pounds. From the fnout to the extremity of the tail this animal is two yards in length, and his height is about two feet. The head very narrow, the nose long, and slender. The tongue is fo fingular, that it looks more like a

⁽a) See catalogue des curiosités du cabinet de Davila. 3 tomes, avec figures. Paris, 1767.



The GREAT ANT BEAR Falmera. Myrmecophaga Subata, Linn! - from BUENOS ANRES. Published as the Act directed Springer 700.

The second of th



a worm, and extends above fixteen inches. His body is covered with long hair, of a dark brown, with white stripes on the shoulders; and when he sleeps he covers his body with his tail.

The mineral part of the cabinet, containing precious stones, marbles, ores, &c. is very perfect. Amongst other curiosities they have a grain of gold of 22 carats, which weighed sixteen marks, sour ounces, sour ochavos, Spanish weight, sound in California, and sent by the viceroy of Mexico as a present worthy of his majesty's acceptance (a); also several curious specimens of silver ore, from the Guadalcanal mine in Estremadura, of that fort called Rosicler.

Specimens of Mexican and Peruvian utenfils, vases, &c. in earthenware of that kind, which the Spaniards call Barra, wretched both in taste and execution. Some productions likewise of Otaheite, which the Spaniards call amath.

Ferdinand and his queen are

A curious collection of vases, basons, ewers, cups, plates, and ornamental pieces of the finest agates, amethysts, rock crystals, &c. mounted in gold, and enamel,

⁽a) A curious treatife, now very scarce, was published at Mexico, by the viceroy, in June 1771, intitled Noticia Breve de la Expedicion Milatar de Sonora y Cinaleo, su Exito felix y ventajoso estado, en que por consequencia de ello se ha puesto ambas provincias. See a surther account of this expedition in Robertson's history of America. Note LXV. vol. 2.

fet with cameos, intaglios, &c. in an elegant tafte, and the most delicate workmanship, said to have been brought from France by Philip the fifth. There is likewise a valuable collection of books and prints daily adding to the cabinet by the said Don Pedro Davila.

Were painting and sculpture my objects, this would be the place to describe the many fine pictures in the royal palace and in the noblemen's houses at Madrid; but I pass them over in silence the more readily, as modern travellers have described the most beautiful of these pictures. I shall just observe that a late writer who spent some time at Madrid, speaking of the church of the vifitation, called Las Salesas, where the late king Ferdinand and his queen are interred, tells us, that at the principal altar, there is a fine copy of Raphael's transfiguration; whereas it happens to be a good picture of the vifitation, in allufion to the name of the church, and done by Francisco de Muro at Naples. . It is true a most excellent copy of Raphael's transfiguration may be feen at another church belonging to the convent of St. Terefa, placed there by the founder, the Prince de Astillana, who considered it as an original of Raphael, and valued it at ten thousand pistoles (about £7000). It is supposed to have been done by Julio Romano, the ablest and favourite scholar of Raphael. The same writer speaking of the pictures in the palace

of Buen Retiro in the saloon, named De los Reynos, calls one picture "Santa Cruz succouring Geneva"; whereas it is the surrender of Genoa to that officer, being placed amongst other historical pieces of the times, which are termed by him, "Scripture subjects of the old testament."

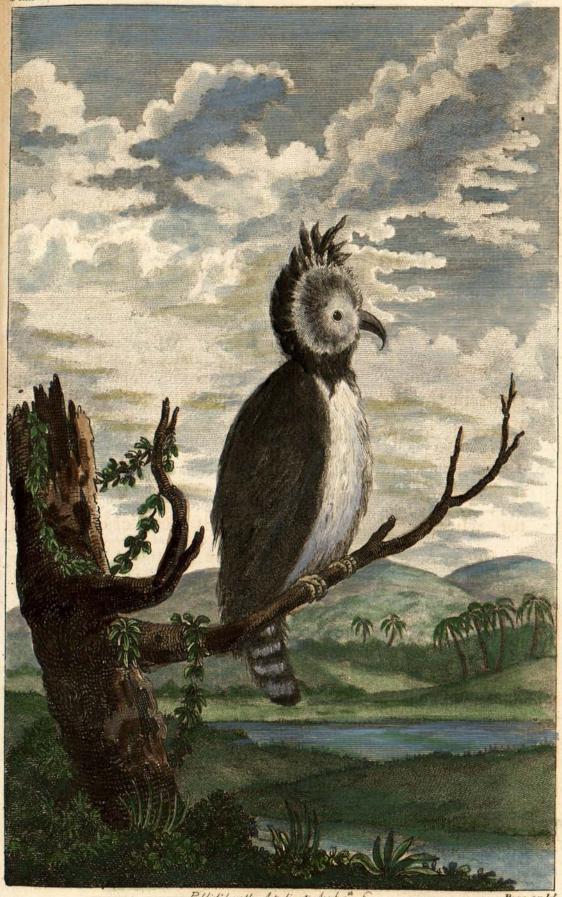
That beautiful equestrian statue of Philip the 4th, by Tacca of Florence, which stands in a little flower garden of the Retiro, is worthy of the highest admiration. attitude of the horse is surprisingly bold, with both his fore feet in the air; and was imitated from a picture of Velasquez, sent to Italy for that purpose. When seen by the Florentine artists, they all agreed it was impossible to execute it; however Tacca with the affiftance of Galileo happily applied the principles of equilibrium, and fucceeded beyond expectation. This unfortunate artist died soon after of grief from the treatment he received from the grand duke's minister, concerning this statue, but his eldest son Ferdinand came to Madrid, and fixed the parts together, which were three in number, and placed the statue properly. Six hundred and fifty fix quintals of 128lb. of metal each, were employed in the casting. Its height, including the pedestal, is 84 palmos (19 feet 9 inches English) (a). In an inventory of the effects of the Retiro, it was valued at forty thousand pistoles (£.28.000) an enormous sum, and

⁽a) A Spanish palmo eight inches and a quarter.

much more than it could ever have cost. It was proposed a few years ago to remove this statue to some more conspicuous place, but it is said to have been objected to, by the then prime minister Marquis de Grimaldi, alledging that they must not pay any attention to the house of Austria, but he would have no objection if the head of Philip could be changed, for that of Charles the third.

Tacca also finished the equestrian statue of Philip the third in the Casa del Campo, lest imperfect by John de Bologna, at his death, and was brought to Madrid in 1616, by Antonio Guidi, brother in law to Tacca, attended by Andrew Tacca, another brother of the sculptor, who brought with him the gilt metal crucifix fixed on the altar of the Pantheon at the Escurial. The mention of the Retiro has naturally led me into the agreeable gardens of that palace, and to the menagerie, where, amongst other curiofities, they have a crested falcon from the Carraccas. This curious bird, which is about the fize of a turkey, raifes his feathers on his head in the form of a crest, and has a hooked bill; the lower mandible rather straight; his back, wings, and throat are black, the belly white, the tail distinguished by four cinereous, and parallel stripes, and is an undescript bird not taken notice of by Linneus.

A L C O N From the CARA MCH. 9



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The CRESTED FALCON From the CARRACCAS, alive in 1778, in the Menagerie of Buen Retiro, at Madrid.

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LITTER VIII

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LETTER VIII.

three grand divisions; diffinguished by the names of La

The whole of these gardens may be thrown into

Description of the palace and gardens of Aranjuez.

Huerta Valenciana, agriculture and gardening are car-

THE royal feat of Aranjuez, feven leagues diftant from Madrid, and to which a most noble road has lately been made, is delightfully fituated at the conflux of the rivers Tagus and Jarama; which run through the gardens, and add new beauty to this charming fpot, where art and nature feem to go hand in hand with the most pleasing and rural simplicity. On one fide, fine avenues of stately oaks and lofty elms, convey the truest ideas of magnificence, while they afford the most reviving shade; on the other, the fudden transitions to lawns and wilderness, the cafcades of water breaking through the thickets, the tuneful fongs of numberless birds, sheltered in these cool recesses, the occasional appearance and passage of the monarch, attended by the grandees of his kingdom; all these objects united, and concentered in one point, fill the imagination with pleasing ideas, and impress the mind of a traveller with a thousand agreeable sensations, particularly in the spring, when every thing is durante

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in high bloom and perfection, and engage him to look at Aranjuez as one of the most beautiful places in Europe.

The whole of these gardens may be thrown into three grand divisions, distinguished by the names of La Huerta Valenciana (a), Los Deleites, and El Cortijo. In the Huerta Valenciana, agriculture and gardening are carried on in the same manner as in that fruitful province, and they plough with horses. In the Cortijo they use oxen, as in Andalusia; and in other places they scratch up the ground with mules as is still practifed in some parts of Spain. Which ever way one looks round, a constant variety pleases the eye and enraptures the mind. At one moment the sturdy buffalo moves before you, drawing his heavy burthen; foon after, the flow camel with his ponderous load; while the fwift Zebra with his striped garment frisks over the plains. If you approach the farm, every object of convenience is confulted, and in the dairy every degree of neatness. The Dutch cow enjoys a luxuriant pasture, the brood mares greatly enliven the landscape, and the stables are filled with the most excellent horses. An immense nursery furnishes all manner of trees and plants, a cedar of Libanus, which

⁽a) By the term of Huerta is understood that kind of inclosure we call an orchard, but with a greater variety of cultivation. When they speak of an ornamented flower garden near a palace or nobleman's house, the Spanish term is jardin, the same as in French.

about twenty years ago was only a twig, is now thirty feet high: the garden called the Isla is particularly beautiful and rural. The Judas tree, which the Spaniards call Arbol de Amor, being happily dispersed there, has a very good effect early in the spring, when covered with flowers without a fingle leaf; the banks of the Isla are further enlivened by elegant yachts, for the amusement of the royal family. The fine avenue which also serves for a public walk, called Calle de la Reyna has nothing equal to it at Versailles. The extensive flower garden on one fide, renders the walk extremely pleafant in an evening; and were I to mention the quantities of flowers and fruit, it would require many details. A great many elms and oaks have been planted this year, (1778) faid to be 101.000, which must likewise include vines, olives, shrubs, &c. They have lately begun to cultivate pine apples, unknown in every other part of the kingdom. In most bedieved villamen of and leflowing lines are the beginning

At the noon-tide hour, when the freshness of the morning is past, the shady walks near the palace then become an object of fingular luxury, as well as the elegant fountains, whose sportive waters give such a coolness to the air. Whoever has enjoyed the agreeable moments that pass in pleasing converse under these shady bowers, will furely be charmed with their admirable effect, independent of every idea of modern improve-Paradib Elpacol Tom L Madrid 1773

ments, or criticism upon fountains and water works, The nightingale and cuckow are heard here the latter end of April. That elegant bird the bee eater, called by the Spaniards Abejaruxo, the merops apiaster of Linnæus, which our travellers tell us comes no further South than Andalusia, is known not only to breed at Aranjuez and live there all the year round, but is also found at St. Ildefonso, which is 20 leagues more to the northward. The golden thrush is also seen here, a beautiful bird with a bright yellow plumage, the iderus of Edwards, called oropendulo by the Spaniards, and l'auriot by the French, the oriolus of Catesby and Linnæus. Amidst the great variety of birds in these woods, there is one about the fize of a cuckow, called Pito, of a beautiful purple. Such a diversity of objects could not fail to excite the genius and fire of the Spanish writers; for my part I willingly join with that elegant poet Don Gomez de Zapia, who has fo naturally described them, in a poem, of which the following lines are the beginning:

En lo mejor de la felice Espana

Do el Rio Tajo tertia su corrida,

Y con sus cristalinas aguas bana

La tierra, entre las tierras escojida,

Esta una Vega de belleza estrana!

Toda de verde yerba entretejida,

Donde natura y arte en competencia,

Lo ultimo pusieron de potencia (a).

⁽a) Parnasso Espanol Tom 3. Madrid 1773.

to Charles the third for bringing the phole to its

The Palace being an old building with feveral additions is more in the style of a hunting seat, as Philip the second designed it, than of a royal mansion, nor is there any thing very particular in the apartments, to take off from the enjoyment of so many fine objects abroad. The new wings to the Palace are finished; in one is a play house, and in the other a chapel. Part of the cieling of the former was painted by Mengs, who is now (1779) at Rome painting a holy family for the principal altar in the chapel.

There are feven fine pictures of Luca Jordano in the apartment called El Cabinete Antiguo, and fix others in that de los Mayordomos; particularly one, is universally admired, in which a number of beasts are represented listening to Orpheus, and seeming to be struck with the melody of his lyre. The portraits of the grand Duke and Dutchess of Tuscany by Mengs, are in a new apartment called the king's dressing room. In the chapel, over the great altar there is a fine picture of the Annunciation by Titian, presented by him to Charles the sifth, and brought from the convent of Juste after the death of that Emperor. The Porcelain Cabinet where there are several large pieces of the king's own Manusactory, is also an object of curiosity to a traveller. In a word, this charming place is highly indebted

Worls.

to Charles the third for bringing the whole to its present state of beauty, and making the new road from Madrid, and the noble stone bridge over the Jarama: if the design is continued of planting trees on each side of the road, it will add greatly to its magnificence.

A topographical plan of Aranjuez and the improvements there, has been executed by Don Domingo de Aguirre, captain of engineers, in fixteen sheets, and the views in eight more. In short, these rural places have so many charms, that they cannot fail of pleasing every fancy, and meeting universal acceptation, as Lupercio Leonardo de Argensola has happily expressed it, in a little poem in praise of these gardens.

Qualquiera aqui su condicion aplica, Aunque su origen trayga de otra parte, Do el sol menos, o mas se comunica!

But this is only to be understood with respect to the proper season of the year, suited to its situation, for as it lies in a bottom surrounded with mountains, the air is of course confined, which added to the great quantity of water, and numerous plantations, makes it agueish when the hot weather begins, for which reason the court generally removes about the end of May, and goes soon after to St. Ildesonso, which is a very high situation amongst the mountains of Guadarrama, where

they begin a new spring and breathe a clear refreshing air during the scorching heats of summer.

Great quantities of liquorice grow wild near the road between Aranjuez and Toledo, as well as on the banks of the Tagus, where one also finds those curious reeds made use of by the Romans for writing, and celebrated by Martial, in an epigram addressed to Macer, who had been pretor in Spain.

Nos Celtas, Macer, et truces Iberos, Cum desiderio tui petemus, Sed quocumque tamen seretur, illic Piscosi Calamo Tagi, notata Macrum, pagina nostra nominabit, Lib. x.

The castle of Aceca dependent on the jurisdiction of Aranjuez though kept in good order, is more taken notice of on account of its former reputation, and antiquity, than from any other circumstance. Its district is supposed to have belonged formerly to a colony of Jews from Toledo, and so named from azeba in Palestine peopled by Joshua (a). There is no doubt that the Jews were in great repute in Spain in the early ages, infomuch that in 686, under the gothic king Ervigius, they had the boldness to affert, and endeavoured to perswade the king, that the Messiah was not come. Their de-

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fcendants several years afterwards propagated sables, to prove their great antiquity in Spain, and in order to leffen the reproaches thrown on them by the Spaniards, they gave out, that they were not descended from those Jews who crucified our Saviour (a).

Lagus, where one also finds those curi-

(a) Sandoval, bishop of Pamplona, relates, that when king Alsonso conquered the city of Toledo, he found it full of Jews, who shewed to that monarch two letters in Hebrew and Arabic, sent from the synagogue of Jerusalem to that of Toledo, giving them an account of Je'us Christ, and asking their opinion whether they should put him to death; also the answer of the Toledo Jews, dissuading them from it. These letters were ordered to be translated from Hebrew into Arabic by Galisre king of Toledo, and into Latin and Spanish by king Alsonso, and were preserved in the archives of Toledo till 1494. They were translated by Julian, archariest of St. Just, and were afterwards in several hands. The answer of the Spanish Jews is dated Toledo 14th of the month Nisan, ara of Casar 18, and of Augustus Octavianus 71. I know nothing surther concerning the authenticity of this letter, says the bishop of Pamplona, than that it was found in the archives of Toledo, and in the same style and language in which I have given it. Historia de los Reyes de Castilla y Leon por Don fr. Prudencio de Sandoval obispo de Pamplona. En Pamplona 1615.

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LETTER

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was once famous for its curious water mills, for fawing

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Description of the baths and mineral waters of Trillo.

tayour of the archduke of Aultria, who having flaid there

TO country abounds fo much as Spain with hot baths and most excellent mineral waters, and they are now beginning to investigate their qualities. Those of Trillo have of late particularly engaged the attention of government, and we have been more accurately informed of their virtues and properties. The village of Trillo, in New Caftile, is seventeen leagues from Madrid, by the new road lately made to that place, fituated on the north banks of the Tagus, two leagues fouth of the city of Siguenza. The village of La Puerta is about a league to the eastward, and the town of Gualda much about the same distance to the westward. The country is hilly, and affords little corn or fruit, some few vineyards, and plenty of game. The Tagus abounds in fish, such as trout, eels, and barbel; has a stone bridge of one arch over it, of a folid structure, and considerable antiquity, being there when the first investigations were made about this place in 1558 (a). A little river runs

⁽a) Particular mention is made of Trillo by Ambrosio Morales. Antiquedades de las Giudades de Espana. Alcala de Henares, 1575.

from Cifuentes, which enters the Tagus at Trillo, and was once famous for its curious water mills, for fawing of timber brought down by the stream, which was the chief branch of industry of the inhabitants; but in the year 1710, on the 30th of December, they were visited by 1400 of the English army then serving in Spain, in favour of the archduke of Austria, who having staid there feven days, raifed confiderable contributions, and were fucceeded by 8000 Portuguese their allies, under the Count de Atalaya, who ravaged the country, and pillaged the place: of the three faw mills, only one was left standing, which has fince become useless. The inhabitants dwindled in numbers, and the few that remained, from a state of affluence and ease, experienced the extremity of poverty and distress; though in a situation, where the climate is remarkably temperate, the air pure, provisions plentiful, their mutton fingularly excellent, and a fine spring of fost water runs near the village.

The baths are up the river on the opposite side of the Tagus, about the distance of a mile, with an agreeable road to them, made from the foot of the bridge, with an avenue of trees, through a pleasant district, well shaded with wood, where the warbling of nightingales, and the musical notes of various other fong birds, delight the invalid, and welcome his approach to these salutary baths. Inns are now building for the reception of company,

pany, and every effort is made for the convenience of the infirm. The waters have been analyzed with exactness, a deputation having been appointed by command of the king, to conduct every thing with the utmost formality, under the direction of Don Miguel Maria de Nava, Dean of the council and chamber of Castile, assisted by Dr. Casimir Ortega, F. R. S. and royal professor of Botany at Madrid, who has published the proceedings of this assembly held at Trillo; and from his elegant treatise I have selected the following information (a).

These baths are situated at a small distance from the banks of the river, in a meadow, at the brow of a hill, which by its situation to the eastward, affords a refreshing shade the greater part of the morning. The baths are divided in the following manner.

Los Quatro Banos, called the king's bath, divided into four separate baths, all equally commodious, and hand-fome, with their proper appertenances.

waters, is the most difficult operation of chemistry, as

on the mineral waters of Spain, published at the close of

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⁽a) Tratado de las Aguas Termales de Trillo escrito de orden del Rey por el Dr. Gasimiro Ortega, Madrid, 1778.—The ingenious and learned Dr. Ortega was in England a sew years ago, and is well known to several gentlemen in this country. Besides the waters of Trillo, those of Ribas, at a small distance from the mountain of Nuestra Senora de Nuria, near the Pyrenees of Cataluna, are greatly resorted to in the spring, and autumn, for gravelly complaints, as is also the sountain of Paterna, in the Alpujarra mountains of Granada, called "Aguas agrias," "Acidulous waters."

92 TRAVELS THROUGH SPAIN.

The Countes's Bath, so named after the lady of the Count de Cifuentes, who is lord of the place, is close to the river, but judiciously built and remarkably solid, to resist every impulse of the stream, and equally decorated with every convenience and advantage.

The bath of the *Pifcina* is about four hundred paces from the king's bath, and has acquired this appellation from being chiefly made use of, by the poor, who are most subject to cutaneous complaints, for which purpose this bath is remarkably efficacious. A dwelling-house is now building for the use of the bathers, with every distribution of apartments and convenience, requisite for a place of this nature: also, for a greater embellishment of the baths, they have planted round them that beautiful and odoriferous tree sent thither from the royal botanic garden at Madrid, by the name of robinia pseudo acacia. In Spanish falso aromo. (The false acacia.)

Dr. Ortega, after referring us to Macquer, and other eminent chemists, who all agree, that the analysis of waters, is the most difficult operation of chemistry, as it tends to discover that union, which nature by slow and secret steps, forms in water, and other substances, in its most occult and abstruse motions; proceeds to his analysis of the waters of Trillo, after some strictures and criticisms on the writings of Dr. Limon Montero, on the mineral waters of Spain, published at the close of

the last century, intitled "Espejo Cristalino de todas las Aguas Minerales de Espana." And after denying them any nitrous, aluminous, or sulphureous qualities, as afferted by Dr. Limon, he closes his analysis with the sollowing corollary:

"That these waters participate of five substances, two volatile, and three fixed; viz. a phlogistic vapour, extremely anodyne, penetrating, and friendly to the nervous fystem; of a moderate quantity of gas, calcareous earth, common falt, and felenetic falt; and that to each pound of water of fixteen ounces, one may calculate twenty-five grains and an half, of fixed principle. This computation was made on a confiderable evaporation of water, of about a quintal (a), which was judged to be the best method, as less liable to errour, than those experiments with small quantities. It was also considered, that of the twenty-five grains and an half, of fixed principle, corresponding to each pound of mineral water, near fourteen grains are common falt, about three of selenetic salt, and about eight and an half, of absorbent earth; which for greater exactness we shall express in this manner;

- 13 397 grains common falt.
- 2 985 grains felenetic falt.
- 8 307 grains absorbent earth.

⁽a) A Spanish quintal 97 pound English.

The same proportions, with a very trisling deviation, were also found by Don Manuel Joachim Enriquez de Paiva, royal demonstrator of the chemical laboratory at Coimbra in Portugal.

following corollary

Dr. Ortega observes, that the lightness of this water is so great, as even to enter into competition with that of distilled water, the purest we know of; therefore its effects will be the more easily accounted for: that the heat of the water, does not equal that of the blood, in a person in good health, and comes near to that tepid degree, prescribed by the physicians in artificial baths.

arinciple. This computation was made on a confident-

The bath of the princess is the most efficacious, or at least abounds most with phlogiston, and of course is better suited to those disorders where the efficacy of this principle is desired. The king's bath, and that of the countess have scarcely any phlogistic vapour, which variety makes them still more pleasing to the bathers, and applicable to different complaints; while the Piscina bath abounds chiefly with phlogiston, and is admirably suited to the disorders of the poor, as already observed: finally the two principles of gas, and of phlogiston, are of so volatile a nature in these waters, that a remarkable difference is observed betwixt the well, and the bath, by those who drink them immediately from the spring,

fpring, or at a distance; which shews how much it evaporates by carriage; for which reason it should not be filled in earthen pitchers, but only in bottles or flasks, well corked, and carefully sealed. This is the substance of a public oration pronounced by Dr. Ortega, before a numerous affembly at Trillo, and afterwards published by authority of the council at Castile, in virtue of their decree for that purpose, bearing date the 11th of April 1778, to which are added a few trifling cases, with that of the dean of the council, Don Miguel Maria de Nava, at the head of them, who found great benefit from these waters, and presided at this pompous affembly, attended by the Count de Cifuentes, a grandee of Spain, and many other noblemen and gentlemen of rank, as well as feveral eminent physicians, furgeons, and apothecaries, who all concur in the praises of Trillo, and set their names to the facts. there related. the waters the waters the related the came to Trillie, drank the waters

I shall only select one case, inserted by Dr. Ortega, and taken by him verbatim from Dr. Mendoza, physician at Cisuentes, written at Trillo so early as the 18th of July, 1714, adorned with a copper-plate, representing the virgin Mary as protectress of the waters, being one of the first cures, which brought them into repute.

advised to have made, could not be kept open, not

"withfunding"

" and voided a great deal of fand, "The plears being

" A friar of the congregation of St. Philip De Neri, " was troubled with ulcers in his legs, the remains of a " malignant eryfipelas, and an abscess in the bone of "the right clavicle, which having been opened by the " person who attended him, terminated after a long and " painful process, in a fistula. An ill-conditioned ab-"' scess of a great fize, was discovered at the same time, " fituated on the last right rib, which was deemed very "dangerous to open. He had also a tumour seated in "the right axilla, another on the left hand, and others " on the shoulders, a pain in the side, a hectic sever, " fhortness of breath, painful respiration, and a sallow " complexion, with constant faintings and vapours, "which flew to the head, and often occasioned a syn-" cope. Having suffered thus, for two years, and all "the remedies having failed, which are called human, "he came to Trillo, drank the waters, used the baths, " and voided a great deal of fand. The ulcers being "healed, though for some time the hectic did not sub-" fide, he returned the following feafon to repeat the " use of the waters and baths; and was perfectly cured, " fo as to go home without a fiftula, tumours, or pain " in the fide; his respiration recovered, with a healthy " and florid complexion; and finally with fo much na-"tural vigour, that even the iffues which he had been " advised to have made, could not be kept open, not-" withstanding " withstanding every endeavour for that purpose. The

"witnesses of this case were Dr. Aquenza, Dr. Porras,

" and the king's first surgeon Monsieur Legendre."

I now close this narrative with a list of such plants as Dr. Ortega tells us he found in the environs of Trillo (a).

ACER Monspessulanum
Achillea ageratum
*Achillea millesolium

*Adiantum capillus veneris

* Agrimonia eupatorium

*Agrostemma githago

Allium descendens

Allium victoriales

Allium paniculatum

Alfine segetalis

Althæa cannabina

*Althæa officinalis

Alyssum saxatile

Anagallis monelli

Androface maxima

Anemone hepatica

* Anthyllis vulneraria

Antirrhinum bellidifolium

Montpelier maple

Sweet maudlin milfoil

Milfoil yarrow

True maiden hair

Common agrimony

Corn cockle

- - - - Garlic

Broad leaved garlic

Corn chick weed

Hemp leaved marsh mallow

Common marsh mallow

Yellow mountain madwort

Blue flowered Pimpernel

Androface with the largest empalement

Single hepatica

Double headed ladies finger

Daifie leaved fnap dragon

⁽a) Those marked with an afterisk are likewise natives of this country, the English names of which are adopted from "A Botanical arrangement of all the vegetables naturally growing in Great-Britain, with descriptions of their genera and species, according to the system of the celebrated Linnæus, &c." By William Withering, M. D. Birmingham, 1776.

Antirrhinum junceum

* Antirrhinum majus

Antirrhinum faxatile

Aphyllanthes Monspelliensis

Apium petrofelinum

*Aquilegia vulgaris

*Arbutus uva urfi

Aristologia longa

Aristologia pistolochia

Asclepias nigra

* Asparagus sativa officinalis

Asparagus silvestris

* Afperugo procumbens

*Asperula cynanchica

*Afplenium ceterach

*Afplenium rutamuraria

*Afplenium trichomanes

Atractyllis cancellata

* Bellis perennis

Berberis dumetorum

Biscutella didyma

*Borrago officinalis

*Bryonia alba

Buplevrum frutiscens

Buplevrum rigidum

*Buplevrum rotundi folium

*Buplevrum tenuissimum

* Buxus fempervirens

Rush leaved snap dragon

Snap dragon toad flax

Snap dragon

Common parsley

Common columbine

Perennial leaved strawberry tree

Long birthwort

Scallop leaved birthwort

Black fwallow wort

Cultivated Sparagus

Wild Sparagus

Goosegrass madwort

Squinancy woodroof

Common Spleenwort

White Spleenwort

Green Spleenwort

- - - Distaff thistle

Common daify Magicilla

- - - - Barberry allies al molly! A

Buckler mustard with a double orbicu-

lar pod

Common borrage

White briony The Bally and the Asset

Shruby thorough wax

- - - - Hare's ear

Round leaved thorough wax

Fine leaved thorough wax

Tree box

* Campanula

* Campanula rapunculus Campanula stricta

Catananche coerulea Caucalis grandiflora * Centaurea calcitrapa

*Centaurea cyanus

* Centaurea nigra

Cheiranthus triftis

*Chenopodium murale

* Chlora perfoliata

*Chryfanthemum leucanthemum Daify goldins

*Cichorium intybus

*Conium maculatum

Cistus albidus

Cistus incanus

Cistus fumana

* Ciftus marifolius

Cistus populifolius

Cistus umbellatus

Clematis viorna

Cleonia Lufitancia

Colutea arborescens

*Convallaria polygonatum

Convolvolus terrestris

Coris Monspelliensis

Coronilla coronata Coronilla juncea

Cotyledon Hispanica

Rampion bell flower

Bell flower with a Stalk branching at

Digitalis obfeera

e Echium vulgar

the bottom

Blue candy lion's foot

Bastard parsley

Starry knapweed

Blue bottle knapweed

Black knapweed

Stock gilly flower

Sow bane bite

Yellow centaury

Wild endive

Spotted hemlock

- - - - Cistus

Honey leaved ciflus

Hoary ciftus

Poplar leaved cistus

Virgin's bower

Common bladder sena

Odoriferous bellwort

Bindweed

Montpelier coris. We have no Eng-

lish name for this plant.

Fointed bodied coluthea

- Coluthea

100 TRAVELS THROUGH SPAIN.

Croton tinctorium
Cynoglossum cherifolium
*Cynoglossum officinale
Cytifus argenteus

*Daphne Thymelæa

*Daucus carota filvestris

Daucus visnaga

Dictamnus albus

Digitalis obscura

*Dipsacus filvestris

Echinops fphaerocephalus

*Echium vulgare

Ephedra destachia

*Epilobium hirsutum

*Equisetum fluviatile

*Equisetum palustre

Erigeron tuberosum

*Erysimum Barbarea

*Euphorbia characius

*Fraxinus excelfior
Fumaria enneaphylla
*Fumaria officinalis

- *Gallium uliginofum *Gallium aparine *Gentiana centaurium
- *Geranium cicutarium

Stinking hound's tongue

Low filvery cytifus

Spurge laurel, or mezereon
Wild carrot
- - - White fraxinella

--- Foxglove
Clothiers teazle

Greater globe thistle:
Common vipergrass.
Shruby horsetail:
Hairy willow herbs
River horsetail
Marsh horsetail:

Rocket wormseed Red spurge

Figtree
Common ash
Nineleaved fumitory
Common fumitory

Marsh goosegrass
Cleaver's goosegrass
Centaury gentian
Hemlock leaved cranesbill

* Geranium

*Geranium fanguineum
Geum montanum
*Geum urbanum
Globularia fpinofa
*Glechoma hederacea
Glycyrrhiza glabra
*Gnaphalium luteo album

*Hedera helix
Hedyfarum humile
Heliotrophium vulgare
*Herniaria hirfuta
Hieracium multicaule
Hieracium murorum
*Hieracium pilofella
*Hippocrenis comofa
Hyffopus officinalis
*Humulus lupulus

Illecebrum paronychia
Inula montana
Inula oculus christi
* Iris pseudoacorus

Jasminum fruticans
Juglans regia

*Juncus acutus
Juniperus oxycedrus
Juniperus Phænicia

* Juniperus communis

Bloody cranesbill
Mountain avens
Avens bennet
----Groundivy gill
Smooth liquorice
Fersey cudweed

Common ivy

Common turnfol'
Rough rupture wort
- - - Hawkweed
Golden hawkweed
Mouse ear hawkweed
Tusted horse shoe
Common hyssop
Brewer's hop

Spanish knot grass

Mountain elecampane

- - - Elecampane

Yellow flag

Shrubby yellow jessamine
Wallnut
Marine rush
Great Spanish juniper
Phænician juniper
Common juniper

102 TRAVELS THROUGH SPAIN.

Lavandula fpica	Spike lavender
* Lepidium latifolium	Pepper ditander
Lepidium nasturtium aquaticum	ditander
*Ligustrum vulgare	Common privet
Linum gallicum	flax
Linum narbonense	flax
Linum faffruticofum	Shruby flax
Lithospermum fruticosum	Shruby gromwell
Lonicera caprifolium	White honeysuckle
Lotus dorycinium	Birdsfoot trefoil
Lotus filiquosus	Total no manuscription
Lotus tetragonolobus	"Hermania birilita
Lysimachia ephemerum	Loose strife
* Lysimachia vulgaris	Yellow loose Strife
M.1 - C1 - O !-	A second of the
Malva fylvestris	Common Mauls
Malva tournefortiana	Hyliopus officinals
Medicago polymorpha orbiculari	
*Mentha aquatica	Water mint
*Mercurialis annua	French mercury
Mercurialis tomentofa	Woolly mercury
Mespilus amelanchier	Alpine vespillus
Nigella arvensis	Fennel flower
Ministry yellow inflamme	sanzund meninder
*Oenanthe fistulosa	Water dropwort
Olea Europaea	Olive
Ononis mitissima	Smooth restharrow
Ononis natrix	Yellow restharrow
*Ononis spinosa	Thorny restharrow
	I to they rejoinantow
Ononis tridentala	Three thorned restharrow

Ononis

Ononis viscosa

*Ophrys spiralis

*Origanum vulgare

*Orobanche major

*Papaver rhæas

* Parietaria officinalis

*Pedicularis fylvatica

Phillyrea augustifolia

Phlomis herba venti

Phlomis lychnitis

Phyfalis alkekengi

Pislacia terebinthus

Plantago albicans

*Plantago major

*Plantago maritima

Plantago pfyllium

Plumbago Europæa

Polygala Monspelliaca

*Polygonum convolvolus

*Polygonum perficaria

* Populus alba

Portulaca oleracca

* Potentilla verna

*Poterium fanguisorba

Prunella hysfopifolia

Prunella laciniata

*Prunella vulgaris

Pforalea bituminofa

Punica granatum

Clammy resharrow

Triple twaye blador

Wild marjoram

Great broom rape

Corn poppy

Wall pellitory

Common louse wort

Narrow leaved phillyrea

Herbaceous Jerusalem sage

Winter cherry

Common turpentine tree

White plantain

Great plantain

Sea plantain .

Branching plantain

Common leadwort

Montpelier milkwort

Binding fnakeweed

Spotted fnakeweed

Abele poplar

---- purstaine

Spring cinquefoil

Burnet ironwort

Hyssop leaved selfheal

Jagged Selfheal

Common felfheal

Three-leaved Jupiter's beard

Pomegranate

Quercuo

oitandor zaga

Salix hetix

Salvia céracopi

Salvia felanca

de anoudence"

invanlore 32

Scapios Itali

104 TRAVELS THROUGH SPAIN.

Quercuo ilex

*Ranunculus acris

Refeda luteola

Refeda phyteuma

Rhamnus alaturnus

Rhamnus catharticus

Rhamnus pyrenaicus

Rhus coriaria

Rosmarinus officinalis

Rubia tinctorum

*Rumex acutus

Ruta graveolens

Ruta linifolia

* Salix rofmarini folia

*Salix helix

Salvia ceratophylla

Salvia officinalis

Salvia sclarea

Salvia viridis

*Sambucus ebulus

*Sambucus nigra

* Samolus valerandi

Scabiosa integrifolia

Scabiofa stellata

Scorzonera Hispanica

*Scrophularia aquatica

Scrophularia canina

*Sedum album

*Senecio vulgaris

Evergreen oak

Upright crowfoot

Dyer's yellow weed

Rampion yellow weed

Alaturnus

Purging buckthorn

- - - Buckthorn

Myrtle-leaved Shumach

Common rosemary

Dyer's madder

Sharp pointed dock

Broad leaved rue

Narrow leaved rue

Rosemary willow

Rose willow

Garden fage

Clary Sage

Green sage

Dwarf elder

Common elder

Pempernel marshwort

--- Devilsbit

Starry devilfbit

Scorzonera

Water figwort

Dog's figwort

White Stonecrop

Common groundfel

* Serapias longifolia	Long leaved helleborine
	Hairy trailing ironwort
Sideritis incana Mystallandenna	*Trifolium pratents
Sideritis fcordivides	*Triglochin maritimum!
	Nottingham catchfly a midsolpin *
	Woody nightshade what ogoldhar
Solanum lycoperficon	to a least the state of the sta
*Solidago virga aurea	Common golden rod
*Sonchus alpinus	Blue sowthistle anticisc section !
*Sparganium erectum	
Spartum fcoperium	Common broom Hagana soldono V*
* Spiræa filipendula	Dropwort meadowsweet
Stachys alpina white hours of	Mountain clownheel and soldion V
*Statice armeria	*Verbalcum Thapfus # stratage
	Fine feathergrass is the small of the
*Stipa pennata	Downy feathergrafs at mounted ?
Symphytum tuberofum	* Vinca major rojam asmiv
Television to see a selection beautiful and the second	*Viola odorata * Viola odorata
Telephium imperati	
	Germander woods all sabilast
	Amygdalus perficanderalus Qualitation
Teucrium pleudochammitus	Ground germander syzo sugarisa
*Teucrium foordium	germandersillemob anun'il
	Water germander autores autured
	Mountain thyme simobys any
Thymus mastichina	Mallich thoma
Thymus zvois	Maslick thyme arolinive iniv
Tordilium apulum	The least hartwort of Apulia
*Tragonogon porrifolium	Purple goatsbeard
form nulls nobit innotaerunt adsoque	Dan Tribulus
The state of the s	1 ripulus

106 TRAVELS THROUGH SPAIN.

Tribulus terrestris	Caltrop with chick leaf and prickly fruit
*Trifolium melilotus officinalis	Melilot trefoil
*Trifolium pratense	Honeyfuckle trefoil
*Triglochin maritimum	Spiked arrowgrass ilmost alliament
*Triglochin palustre	Marsh arrowgrass eagling supplies
*Tuffilogo farfara	Coltsfoot butter bur hab commission
*Ulmus campefiris	Common elm
*Valeriana calcitrapa	Valerian with leaves, like those of the
Great har reed	star thistle whom muinagrage
*Veronica anagallis aquatica	Pimpernel speedwell
*Veronica beccabunga	Brooklime speedwell
*Veronica hederifolia	Ivy leaved speedwell als evilland
*Verbascum Thapsus	Great mullein singuage going?
*Verbena officinalis	Common vervain Malligus square
*Viburnum lantana	Pliant meal tree
*Vinca major	Greater periwinkle un manydamy?
*Viola odorata	Sweet violet
most similar by activities on being to but I	Telephium imperati
Besides the above spontaneous plants, the following are cultivated in gardens;	
Amygdalus perfica	Peach tree vibomedo muirous I
	White hawthorn and multipus T
	Plumb prune alsolously muinsus T
The state of the s	Black cherry prune of minimum and
	Pear apple muval mubiled T*
	Quince suniqle suniqle
Vitis vinifera	Thymus mashithina mass saiV
A MANUAL VI	

Since the environs of Trillo had induced Dr. Ortega to give a catalogue of plants in that neighbourhood, it infensibly engages me to add a few words respecting the study of botany in that kingdom, which hitherto had made so little figure as to draw down very pointed reslections from Linnæus, who says, "Hispanicae florae nullae nobis innotuerunt adeoque plantae

Carthamus tinctorius Linum ulitatissimum

Bastard saffron Common Flax

plantæ istæ rarissimæ in locis Hispanice sertillissimis minus detectæ sunt. Dolendum est, quod in locis, Europæ cultioribus tanta existat nostro tempore barbaries botanices! paucissimas istas plantas, quæ nobis in Hispania & Portugalia constant, debemus curiosis class iii. Tournefortio et paucis aliis." Linn. biblioth. botanica, part vii. floristæ (viii. Hisp. pag. 96. which tended greatly to raife the emulation of the Spaniards; and while that celebrated botanist was taking measures to obtain a permission for one of his pupils to travel through Spain, he received a message from the Spanish ambassador at the court of Stockholm, which greatly surprised him, as it intimated the desire of his Catholic majesty to have a botanist recommended by Linnaus. This appears to have been owing to some English gentlementhen at Madrid, and among them Robert More, Efq; F. R. S. who dining with the prime minister Don Joseph de Caravajal, had been asked their opinion of Spain by that minister, who perceiving that the remark of Linnæus was not without foundation, and being informed that a Spanish flora would turn out as new as it was rich, determined that his country should soon be free from such a reproach; this was afterwards communicated to Linnæus by Mr. More in his tour through Sweden, and accounted for the application above-mentioned. Peter Læfling, the favorite scholar of Linnæus, was accordingly fixed upon for this expedition, and was received in Spain in the most gracious manner. His surprise was great to find many lovers of botany at Madrid, particularly Don Joseph Ortega, fecretary to the physical academy, Don Juan Minuart, chief apothecary to the armies, Don Joseph Quer, first surgeon to the king, who had a splendid botanical garden, and a most elegant collection of plants, Don Christoval Velcz, apothecary of the college of physicians, who was possessed of a choice collection of botanical books, with a grand hortus ficcus, and had drawn up a flora Madritenfis. Læfling was greatly careffed by these gentlemen, and in return paid a handsome compliment to each, by calling four new plants after their names. Linnæus has taken thefe names into all the fubsequent editions of his genera and species plantarum, and into the last edition of his Inflema natura. Læfling staid about two years at Madrid, making occasional excursions, during which time he collected above 1300 distinct species of Spanish plants. By orders of the court he embarked at Cadiz, in the year 1754, for South America, where he unfortunately died, 22d Feb. 1756, and Linnæus published his letters. See Iter Hispanicum, Holmia, 1758; and a further account of Peter Læfling's life and botanical writings, in the 2d vol. of Boffu's travels in Louisiana, translated by J. R. Forster, F. A. S. London, 1771.

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tion; frewing to what the art of man can attain, and

in a foot unfavourable by nature to all kind of

A ATCT E Le chorts & Ohilin the Vth. who at

LETTER X.

plante illu raullime in locis Hilpanice ferrilitimis minus decedie fant. Dolandum elt, quod un locis, Europe cultoribus carno exiltar noltro tempore barbaries botanices! pancillimas

Caribatana finctorius de Dafard foffron contoune aborret

Linum ufgariffmum in a feet Common East

The royal feat and gardens of St. Ildefonso, with some account of the city of Segovia.

horacili was taking measures to obtain's permission for one of his pupils to travel through Spain, he received a message from the Spanish amballador at the court of Stockholm, which

reatly furnifed him, as it indinated the defire of his Catholic angely to have a botanill re-THOEVER has feen the gardens of Aranjuez will not think it extraordinary that the fovereign of Spain should have another agreeable feat in the fertile dominions of his crown, but when a traveller has croffed the craggy and bleak mountains of Guadarrama, it will be a matter of fingular furprise to behold one of the most dreary rocks embellished with an agreeable villa, where the mines of Mexico have been lavished to effect the alteration; fuch is the royal feat of St. Ildefonfo; for in few parts of the world, the powers of art have been more strenuously exerted to correct the rugged state of nature, and convert a horrid rock into a sumptuous garden, decorated with beautiful fountains, throwing up water to a great height, like those of Versailles; while a variety of trees, brought from different parts of the world, furnish shady walks, in a fpot unfavourable by nature to all kind of vegetation; shewing to what the art of man can attain, and fully evincing the efforts of Philip the Vth. who at

" the

the expence of millions of dollars changed a barren and folitary mountain, into one of the most desirable fpots in his kingdom; yet not without those inconveniencies which all the power of art cannot conquer; for on account of its lofty fituation, the night air, even after the hottest summer's day, is so piercing, that it makes precaution necessary, to guard against its sudden and pernicious effects. In other respects nothing can be more reviving during the fummer heats, than the shade of these gardens, invigorating the languid courtier, whose spirits are further revived by the coolness of the groves, added to the most limpid water that eyes can behold, in fome places flying up into the air, to an immense height, in others rolling down in torrents, which, when catched by the rays of the fun, feem like fo many sheets of liquid filver, of a most amazing brightness. As the cold air of this place keeps every thing back, the king finds a new fpring after he has left Aranjuez, while his Subjects are dying with heat at Madrid. The earliest fruits are but just ripe in August at St. Ildefonso, carnations and roses then adorn the parterres; September is the season for strawberries, raspberries, currants, and barberries; and fnow lies on the mountains till the beginning of June. Many springs run down from the fummit, and fides of the mountains, and are collected into a confiderable bason at the upper end of the garden, to which they have given the name of El Mar,

variety

"the fea;" from whence they are distributed to all the different fountains and water works, the whole garden being on a slope, about two miles in circumference. Other springs with two brooks, form the little river Eresma, abounding in salmon trout, where the king often diverts himself with sishing, under the shade of thickets, beautifully variegated by the pencil of nature.

micious effects. It In other respects nothing can be more The dreary mountain at the top of these gardens, is a kind of rock composed of clay and fine fand, which by degrees crumbling and mixing with rotten leaves and roots, forms that light coat of earth, which just covers the rock, and gives nurture to the firs and other trees and shrubs. The foot of the mountain is of granite, and ferves for building, fometimes for millstones, though rather too soft for this purpose, standing in need of frequent repairs. They get vegetative earth on the North side, about a hundred paces from the green rails of the flower garden, which being further cherished by manure, is laid a foot high on the rock, and by dint of cultivation and care, they are enabled to raise flowers and fruits, whose roots hardly touch the barren foil of the place. I no esil wond bus resimbled

Mr. Bowles informs us, That when the late queen mother lived at St. Ildefonso, the Infant, Don Lewis, her son, had an aviary in the gardens, filled with a great variety

fine

variety of beautiful birds; one place was allotted for woodcocks, where they lived for feveral years. In the middle of their cage a channel of spring water was introduced, which kept up a constant freshness of verdure; a fir tree, stood in the centre, surrounded with shrubs, and they were daily supplied with fresh clods of turf, full of worms, which, though they hid themselves ever so much therein, the bird would instantly discover by the fmell, and driving in his long bill bring them immediately out, then raising his head towards the sky, and extending the worm gently the length of his bill, would let it slide down foftly, without any appearance of deglutition; all which was performed with the utmost facility, as if totally unemployed, without ever miffing its aim, and should the woodcock be killed at that moment, these nauseous worms would immediately contribute towards the forming a delicious repast at the most elegant tables.

The palace of St. Ildefonso has a noble collection of excellent pictures. In the gallery there are many fine statues bought at Rome, out of the collection of queen Christina of Sweden; amongst which the groupe of Castor and Pollux sacrificing, and a sawn, are undoubtedly the most beautiful. The statues in the garden are chiefly of marble of Granada, some sew of marble of Carrara: there is nothing else remarkable except the

this quarte, of about fix pounds, being cut, feemed

fine looking glaffes made in the king's glafs house at St. Ildesons, which supplies all the palaces; they have here the largest tables perhaps in the world for running plate glass. The greatest being 145 inches by 85, and its weight 405 arrobes. The smaller is 120 inches by 75, and weighs 380. This curious art was first invented by the Sieur Abraham Thevart, who proposed it to the court of Versailles in 1688, and is performed much like the casting of sheet lead by the plumbers, by which means they are enabled to make glasses of double the dimensions of those, by the Venetian method of blowing, besides other improvements.

cheffion : at which was perfor

At a small distance from the palace, at a place called the Mata, near the powder magazine, there is a vein of quartz, which appears above ground, running from South to North for about half a league, till it enters and loses itself in the opposite mountain. A piece of this quartz, of about fix pounds, being cut, seemed very curious, being half transparent, and almost as sine as rock crystal, having a kind of stripe, four singers broad, between two coats, of a darker quartz. On following this vein several pieces of the same quartz appeared covered with rock crystal of a milk colour, forming those veins called by miners, "noble veins." Mr. Bowles acknowledges he did not more particularly examine, or make any essay in this place; and yet he tells

us, he conjectures, and infers that it is an unwrought mine of gold.

The environs of St. Ildefonso and particularly the soot of the mountain are covered with a remarkably sine fort of grass, to which they give the name of cosquilla, from its effect of tickling the hand when touched. The root is about eight inches long, cylindrical, and about the fize of a pin, diminishing towards the point; in the middle of this root, which is smooth, the stem springs up, bearing small capsules at their points, inclosing the seed; in many places, and particularly at Segovia, they make use of it at Christmas for ornaments in the churches, to imitate verdure; also little brooms are made with it to sweep away dust; it likewise grows in abundance in the plain of Olmedo, and is seldom to be seen elsewhere.

It is only a few hours ride from St. Ildefonso to the city of Segovia. The naturalist will meet with many objects of curiosity in the environs of this city, observing its different species of marble, granite, limestone, clays, and three sorts of sand (a). It's famous Roman aqueduct remaining so perfect to this day, will prove the solidity of its materials, more effectually than

⁽a) Mr. Bowles enters into many details respecting the variety of sand, clays, &c. in the environs of Segovia, which, not being considered as universally interesting, are omitted.



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long differtations. Monfieur Seguier's method of difcovering the inscription on the Maison Quarree at Nimes, the invention of which is originally due to that celebrated antiquary, Monf. Peyrefc, might likewife ferve to discover that, which was formerly on the aqueduct of Segovia, for the place of the inscription, marks, and holes of the letters, are yet very visible (a). This place is much dwindled at present from what it was formerly. The cathedral is handsome and has been lately repaired; the mint in this city only ferves for copper: gold and filver are coined at Madrid and Seville. The alcazar or castle is curious and in a fine bold situation. The unfortunate Duke de Ripperda was confined here, they shew you the dark room, from whence he made his escape, and the broken lock on the door is still in the fame fituation.

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⁽a) The little square in Segovia, from whence you have a principal view of the aqueduct; is called El Azoguejo de Segovia, as a diminitive of the Arabic word Zocq, which signifies a square or a market-place. This place is mentioned in Don Quixote, and ignorant translators, because the Spanish word azoque also signifies quicksilver, call this place the Quicksilver House of Segovia. Delpino, in his Spanish dictionary tells us, without any authority, that a market is so called, because the people in it are continually moving like quicksilver:

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LETTER XI.

Departure from Madrid for the city of Burges.

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deplies but the tip the transfer of the but the but the but to the but N leaving Madrid, to go into Old Castile, the first grand objects which strike the eye of a naturalist, are the mountains of Guadarrama, that divide the two Castiles; you leave the famous Escurial on the left, and following the new road, afcend these lofty mountains, whose tops, and particularly where the marble lion stands, are chiefly covered with fern, which is common here, though scarce in other parts of this country. From the highest part of the road, there is an extensive prospect of Old Castile, which is more elevated than New Castile, and forms a spacious plain not unlike a great sea. An eafy descent leads to the Hermita del Christo del Caloco, where grey and blue marble is dug out of the adjacent mountain, and is found almost close to the road. The mountain terminates at Villacastin, but the grand plain only commences at Labajos, where they fow the peas called Garbanzos in a fine blackish soil, but they are not equally tender and large every year, no more than at Salamanca or Zamora; for though the land is good for