II. A Difcourfe concerning the Large Horns frequently found under Ground in Ireland, Concluding from them that the great American Deer, call'd a Moofe, was formerly common in that Ifland : With Remarks on fome other things Natural to that Country. By Thomas Molyneux, M. D. Fellow of the King and Queens Colledge of Phyficians in Ireland, and of the Royal Society in England:

Hat no real Species of Living Creatures is foutterly extind, as to be loft entirely out of the World, fince it was first Created, is the Opinion of many Naturalists; and 'tis grounded on fo good a Brinciple of Providence taking Care in general of all as Animal Productions, that it deferves our Affent. However great Vicifitudes may be observed to attend the Works of Nature, as well as Humane Affairs; to that fome entire Species of Animals, which have been formerly Common, nay even numerons in cersain Countries; have, in Process of time, been for perfectly lost, as to become there utterly unknown; tho' at the fame time it cannot be denyed, but the the Morks been carefully preferved in fome other part of the World.

Of this we have a remarkable Example in Ireland, in a most large and stately Beast, that undoubtedly has been frequent in this Kingdom, the' now clear-D d d d ly ly extinct; and that fo many Ages paft, as there remains among us not the least *Record* in Writing, or any manner of *Tradition*, that makes fo much as mention of its Name; as that most Laborious Inquirer into the pretended *Ancient*, but certainly *Fabulous Hi*flory of this Country, Mr. Roger O Flaberty, the Author of Ogygia, has lately informed me.

What Discoveries therefore we make of this Creature, we can only have from those *loose parts* of it we find dug out of the Earth by Accident, preferved there so many Ages from Corruption, by lying deep and close under Ground, whilst harder and of themselves more durable Bodies, moulder away and perish, by being exposed to the various Changes of the Air, and repeated Injuries of the Weather.

By the Remains we have of this Animal, it appears to have been of the Genus Cervinum or Deer Kind, and of that fort that carries Broad or Palmed Hornes, bearing a greater affinity with the Buck or Fallow Deer, than with the Stag or Red Deer, that has Hornes round and branched, without a Palme: This I lately obferved, having an opportunity of particularly Examining a compleat Head, with both its Horns entirely perfect, not long fince dug up, given to my Brother William Molyneux, as a Natural Curiofity, by Mr. Henry Osborn, that lives at a place call'd Dardiflown, in the County of Meath, about Two Miles from Drogbeda, who writ him the following Account of the manner and place they were found in.

I have by the Bearer sent the Head and Horns I promised you; this is the third Head I have found by casual trenching in my Orchard; they were all dug up within within the Compass of an Acre of Land, and lay about four or five Foot under Ground, in a sort of Boggy Soil. The first Pitch was of Earth, the next two or three of Turff, and then followed a sort of white Marle, where they were found: They must have lain there several Ages, to be so deep enterred. (Thus far Mr. Osborn.)

I took their Dimensions carefully as follows; from She extreme tip of the right Horn, to the extreme tip. of the left, as exprest in the annext Table, Figure the Seft. by the prick't Line A.B. was ten Foot ten Inches, from the tip of the right Horn, to the Root where it. gwas fastned to the Head, Exprest by the Line C. D. five Foot two Inches from the Tip of the highest Branch measuring one of the Horns transverse, or directly across the Palme) to the tip of the lowest Branch, expreft by the Line G. F. Three Foot Seven Inches and a Half. The length of one of the Palms within the Branches, exprest by the Line G. H. Two Foot Six Inches: The breadth of the fame Palm, still within She Branches, exprest by the Line I. K. One Foot Ten Inches and a half: The Branches that thot forth round the edge of each Palm, were Nine in Number, befides Ethe Brow Antlers, of which the right Antler, exprest by the Line D. L. was a Foot and Two Inches in length, the other was much forter : The Beam of each Horn at Some distance from the Head, where 'tis mark'd M. was about Two Inches and Six tenths of an Inch in Diameter, or about Eight Inches in Circumference; at the Root where it was fastned to the Head, about Eleven Inches in Circumference. The length of the Head, from the back of the Skull to the tip of the Nofe, or rather the extremity of the upper Jaw-bone, . exprest in the Figure by the Line M.O. Two Foot, D.d.d.d. 2 D DITE A

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the breadth of the Skull where largest, mark'd by the Line P. Q. was a Foot.

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The Two Holes near the Roots of the Horns, that look like Eyes were not fo, (for thefe were placed on each fide the Head in Two ample Cavities, that could not be well exprest in the Figure) but were large open Passages, near an Inch in Diameter in the Forehead Bone, to give way to great Blood-veffels, that here iffue forth from the Head, and pass between the Surface of the Horn, and the Imooth Hairy Skin that Covers them whilft they are growing, (which is commonly call'd the Velvet) to supply the Horns with fufficient Nourishment, while they are loft, and till they arrive at their full Magnitude, fo as to become perfectly hard and folid. These Vessels, by reason of their largeness and great turgency of the Humor in them; whilft the Horn is fprouting and pliant, make deep and confpicuous furrows all along the outfide of it where they pass; which may plainly be seen after the Horn is bare and come to its full growth; at which time all these Veins and Arteries, with the outward Velvet Skin, drying by the Course of Nature, fhrivel up and separate from the Horn, and the Beast affects tearing them off in great ftripes against the Bows of Trees, exposing his Horns naked, when they are throughly hardned, without any Covering at all. This I gather, by what Remarks I have made on the Skulls of other Deer, and what I have observed concerning the growth of these fort of Horns in Animals of the like kind, tho' not in this particular fort of Creature.

The Figure I had exactly taken by a skilful Hand, to thew truly the right thape and fize of these kind of Horns Horns we to commonly find here under Ground in Ireland; and have likewife added a Draught of a pair of common Stags Horns, express Figure the 2d. and another of a pair of common Bucks Horns, express Figure the 3d. all done according to the same Scale; that by this means, at one and the same time, may appear the grand disproportion between these forts of Heads, and also the difference and agreement in their Shape. (See the Table.)

Such then were the vaft Dimensions, according to which the losty Fabrick of the Head and Horns of this stately Creature was Built; and doubtless all the rest of the parts of its Body answered these in a due proportion. So that should we compare the fairest Buck with the Symetry of this mighty Beast, it must rertainly fall as much short of its Proportions as the smallest young Fawn, compared to the largest over-grown Buck.

And yet 'tis not to be queffion'd, but these space so the Deer Horns, as large as they were, like others of the Deer Kind, were naturally cast every Year, and grew again to their full Size in about the Space of Four Months: For all Species of Deer, yet known, certainly drop their Horns yearly, and with us 'tis about March, and about July following they are full fumm'd again. Of which strange Appearance in Nature, the learned Gerrardus Johannes Vossius making mention in his excellent Book De Idololatria, Lib. 3. Cap. 57. has these Words: Ponam inter Naturæ maxime admiranda breviculo adeo Tempore tam solida durag; tantæ Molin Cornua enasci (a).

(a) That is, I shall reckon it among the most wonderful Works of Nature, that Horns so hard and solid, and of so great a Bulk, should grow up in so short a time.

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And the inquifitive Italian Philosopher, Francisco Redi; in his Experimenta circa res Naturales, & c. on the same Occasion expresses himself thus: Maxima profecto admiratione dignum est tantam Molem Cornuum & Ramorum tam brevi tempore quotannis renasci & crescere (b). And if these judicious Persons were moved thus with Admiration by considering only the yearly Falling and sudden Growth of these smaller Horns of Bucks and Stags, with which alone they were acquainted, what would they have thought, had they known of these vast and stupendious Productions of Nature in the same Kind.

As there feems to me no fmall Affinity or Agreement in the Sprouting forth, and Branching of Deers Horns, with the way of Growth in Vegetables ; fo I conceive likewife the conftant yearly dropping of them, to proceed much from the fame Caule, that Trees annually caft their ripe Fruit, or let fall their withering Leaves in Autumn : that is, because the nourishing Juice, fay it is Sap or Blood, is ftopt and flows no longer; either on the account 'tis now deficient, being all spent, or that the cavous Passages which conveigh it, dry up and cools : fo as the Part having no longer any Communication with, must of necessity by degrees fever from the Whole, but with this Difference, that Horns by reason of their hard Material and strong Composition, stick fast to the Head by their Root, Seven or Eight Months after all their Nourishment perfectly retires; whereas Leaves and Fruit, confifting of a much more tender Subftance and a finer Texture of Parts, drop fooner from their native

(b) That is, Truly it deferves our greateft Wonder that fo large a Body of Horns and Branches should sprout up in fo short a time, and be senewed every Year.

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Beds where they grew, when once the Supply of usual Nourishment is stopt; this Analogy that Nature obferves in casting the Horns of Beasts and dropping the Fruit of Trees, will appear much more evident to any one that will observe the end of a Stalk, from which a ripe Orange or any such large Fruit has been lately fever'd, and the Butt end of a cast Horn where it fasten'd to the Os Frontis: for by comparing them together, he shall find so great a Congruity in the state of both, that 'twill be apparent Nature works according to the fame Mechanism in one as in t'other.

Discoursing one Day with his Excellency the Lord Capell, then one of the Lord Justices of Ireland, an experienc'd and accurate Observer of the Works of Nature, I chanced to mention these Large Horns: He was very earness to see them, and so mightily surprised at the fight of their extraordinary Bulk, that my Brother thought fit to make a Present of them to his Lordship, which he obligingly accepted; resolving to send them over, as he faid, to his Majesty King William.

Such another Head, with both the Horns intire was found fome Years fince by one Mr. Van Delure in the County of Clare, buried Ten Foot under Ground in a Poor of Marle, and were prefented by him to the late Duke of Ormond, then Lord Lieutenant of Ireland, who valued them fo highly for their prodigious largenefs, that he thought them not an unfit Prefent for the King, and fent them for England to King Charles the Second, who ordered them to be fet up in the Horn Gallery at Hampton Court; where they may ftill be feen among the reft of the large Heads both of Stags and Bucks that adorn that Place, but this fo vaftly exceeds the largeft of them, that the reft appear to lofe much of their Curiofity Curiofity by being viewed in Company with this. I am lately informed, these with the other Heads are fince removed to the Guard-Room out of the Horn-Gallery.

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In the Year 1691. Major Folliot told me, that digging for Marle near the Town Ballymackward, where he lives, not far from Ballyschannon in the County of Fermanagh, he found buried Ten Foot under plain folid Ground, a Pair of these fort of Horns, which he keeps still in his Possession.

In the Year 1684. there were Two of these Heads dug up near Turvy, the Mansion Seat of the Lord Barnevall, within Eight Miles of Dublin; that which was most compleat of the Two was fixt over the Chimney in the Publick Hall; and there still remains as an ancient and lasting Curiosity to future Ages.

Not long fince, a Head of this Kind with its Horns was found near *Portumny*, the Houfe of the Earls of *Clanricard*, feated on the River *Shannon*, in the County of *Gallway*, where it is carefully preferved, and ftill admired by all that view it.

Such a Forehead with Two extraordinary Beams of thefeKind of Horns, may be now feen faftened against one fide of the Common Hall of his Grace Michael Lord Archbishop of Ardmagh's House here in Dublin; they are both imperfect and want their Palmes, yet by the vast thickness and length of the Beams, I judge when entire they much exceeded the Size of those I have given the Dimensions of above. The Primate told me, they were found somewhere in the Province of Olfer, and and prefented to the Earl of Effex, then Governor of Ireland, who gave them his Grace.

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To these I should add many more Instances of the like, as those found by the late Lord Mountjoy, near his House at Newtown-Stewart ; and those kept at Stockallen in the County of Meath, for to my Knowledge within lefs than Twenty Years, above Twenty, Emight falely fay, Thirty Pair of these fort of Horns have been dug up in feveral places of this Country, all found by Accident; and we may well suppose vast Sumbers still remain undifcovered, but to mention any more of them particularly would be tedious, and to lit-Be purpose, fince these may fuffice plainly to shew, this Creature was formerly Common with us in Freland and an Indigenous Animal, not peculiar to any Territory Province, but univerfally met with in all parts of the Kingdom. to sanative intrative of the boo visits otherwite "is hardly positive to toppete now the

For if we draw a Line through the feveral Places of this Ifland where these Heads have been found, viz. The County of Clare, the County of Dublin, and the County of Farmanagh, omitting those other parts 1 have mentioned; we shall make a Triangle whose the bortest Side will be in length above an Hundred English Miles, which is near as large a Figure of this Sort, as by can well describe in the Map of Ireland.

And befides, we may reafonably, I think, gather ; That they were not only common in this Country, but by what Mr. Osborn mentions in his Letter to my Brother, That they were a Gregarious Animal, as the Naturalifts call them, or fuch a fort of Creature as affect naturally keeping together in Herds; as we fee the Fallow Deer with us, and as 'tis reported of the Elches in E.e.e. Sweden, Sweden, and the Rain Deer in the Northern Countries of Europe; for otherwife we cannot eafily fancy it should happen, that Three of their Heads should be all found within the narrow Compass of one Acre of Ground.

That these and several others, and indeed I think I may fay, all that I have been particularly informed of, though dug up in far distant Places of Ireland, should be constantly found buried in a Sort of Marle, seems to me to intimate, as if Marle was only a Soil that had been formerly the Outward Surface of the Earth, but in process of Time, being covered by degrees with many Layers of Adventitious Earth, has by lying under Ground a certain Number of Ages, acquired a peculiar Texture, Confistence, Richness, or Maturity that gives it the Name of Marle. For of necessity we must allow the Place where these Heads are now found, was certainly once the external Superfice of the Ground; otherwise 'tis hardly possible to suppose how they should come there.

And that they fhould be fo deep buried as we at prefent find them, appears to have happen'd, by their accidentally falling where it was foftilow Ground; fo that the Horns by their own confiderable *Gravity* might eafily make a Bed where they fetled in the yielding Earth; and in a very long Courfe of Time, the higher Lands being by degrees diffolved by repeated Rains, and wafht and brought down by Floods, covered those Places that were foituated lower with many Layers of Farth: For all high Grounds and Hills, unlefs they confift of Rock, by this means naturally lose a little every Year of their Height; and fometimes fensibly become lower even in one Age; of which we may fee feveral fatisfactory Inftances related by Dr. *Plott* in his *Natural* Natural History of Stafford/hire, Chap. 3. Page 113. as for all fuch Heads that might chance to fall on high or hard Grounds, where they could not possibly be covered or defended, these must of necessity rot, perish, and be destroyed by the Weather : And for this Reason it is, that never any of these Horns are discovered in such fort of Ground, but always in a light Soil, and in some low Part of the Country.

By what means this Kind of Animal, formerly fo common and numerous in this Country, should now become utterly loft and extinct, deferves our Confidefation : and feeing it is fo many Ages paft, that we have no manner of Account left to help us in our Enquiry, the most we can do in this Matter is to make Some probable Conjectures about it ; I know fome have been apt to imagine this like all other Animals. might have beeen destroyed from off the Eace of this Country by that Flood recorded in the Holy Scripture to have happened in the the time of Noah; which I confess is a ready and short way to solve this Difficuly, but does not at all fatisfy me : For (befides that that there want not Arguments, and some of them not Eafily answer'd, against the Deluge being Universal) If we confider what a fragil, flight and porous Sub-Stance these and the Horns of all Deer are, we can't well suppose they could by any means be preferv'd entire and uncorrupt from the Flood, now above Four Thousand Years fince; and I have by me some of the Teeth, and one of the lower Jaw-bones of this Creature so perfect, solid, ponderous and fresh, that no one that fees them can possibly suspect they could have been in nature to many Ages paft: And therefore it feems more likely to me, this kind of Animal might become extinct here from a certain ill Constitution of Air in-Eeee 2 fome fome of the past Seasons long fince the Flood, which might occasion an Epidemick Distemper, if we may so call it, or Pestilential Murren, peculiarly to affect this fort of Creature, so as to destroy at once great Numbers of 'em, if not quite ruine the Species.

And this is not fo groundless an Affertion as at first it may appear, if we confider this Island may very well be thought neither a Country nor Climate fo truly proper and natural to this Animal, as to be perfectly agreeable to its temper; fince for ought I can yet learn it neither is, nor ever has been an Inhabitant of any of the adjacent Kingdoms round about us. And befides, the Three Heads above mentioned, found fo close to one another in the County of Meath, and the Two near Turvy, feems not a little to countenance this Opinion; as if these Animals dyed together in Numbers, as they had lived together in Herds.

To this purpose I have met with a remarkable Paffage in Scheffer's Description of Lapland, Chap. 28. speaking of the Cervus Rangifer, an Animal that agrees in Kind with ours, though it be a quite different Sort of Deer, he fays that whole Herds of them are often destroy'd by a Raging Distemper common among them; these are his Words: Est & Morbis suis genus hoc Obnoxium qui si ingruant Gregem totum solent pervagare & ad necem dare; qua de re Johannes Bureus ita habet in Schedis suis, solet interdum Rangiseros morbus quidam velut Pestis invadere sic ut moriantur omnes Lappoq compellatur novos sibi comparare Rangiseros (c). By

(c) That is, this Kind of Creature is likewife fubject to its Difeafes which if they feize a Flock, goes through them all; concerning which *Thannes Bureus* has it thus in his Papers; fometimes a fort of Difeafe after the manner of a *Plague*, affects the Rain Deer, fo as they all dye, and the Laplander is forced to fupply himfelf with new Rain Deer.

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which we may see what we conjecture in our Case, is not meer Supposition, but certainly happens elsewhere to Animals of the like Kind.

But fince we have an Inftance of fo destructive a Mortality among Beafts as quite to extinguish a whole Species at once, we may think fome might have efcaped the Common Calamity; but thefe being fo few in Number, I imagine as the Country became peopled, and thickly inhabited; they were foon deftroy'd, and skill'd like other Venifon as well for the fake of Food as Maftery and Diversion. And indeed none of these Animals by reason of their Stupendious Bulk and Wide Spreading Horns could poffibly lye sheltered long in any Place, but must be foon discovered, and being to con-Spicuous and heavy were the more eafily purfued and taken by their numerous Hunters, in a Country all environed by the Sea: For had they been on the wide Continent they might have fared better, and fecured themfelves and their Race till this time, as well as others of the fame Kind have done elsewhere. Of which more hereafter.

Or had those Barbarous Times been capable of taking Care for the Prefervation of this stately Creature, our Country would not have entirely lost fo fingular and beautiful an Ornament : But this could not be expected from those savage Ages of the World, which certainly would not have spared the rest of the Deer Kind, Stags and Hinds, Bucks and Does, which we still have ; but that these being of much smaller Size, could shelter and conceal themselves easier under the Covert of Woods and Mountains, so as to escape utter Destruction.

bake Elches or Elende, as we are to this of our own

And here I cannot but observe, that the Red Deer in these our Days, is much more rare with us in Ireland, than it has been formerly, even in the Memory of Man: And tho' I take it to be a Creature, naturally more peculiar to this Country then to England, yet unless there be some care taken to preferve it. I believe in process of time this Kind may be lost also, like the other sort we were now speaking of.

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It remains we should fay fomething concerning the Proper Name of this Animal, and what Species of Creature it was to which these stately Horns formerly belonged. And I must here needs own, that I have not met to this Day with any Person, that has spent the least serious thought concerning this matter. So destitute have we been in this Place of that inquisitive Genius, that in these later Ages has so much everywhere prevailed, in setting the Minds of Men upon a diligent search after, and making curious and useful Remarks, on all things that are truly the admirable Workmanship of Nature.

I know they are vulgarly call'd by ignorant People, nay, and fome of the learned *Vulgus* in this Country, *Elches Hornes*; and that they are fo, is an Opinion generally received, and fatisfies fuch as talk of them Superficially, without further Enquiry; and becaufe this is an Error that has fo Univerfally prevailed, I fhall take the more pains particularly to Confute it, and I hope clear this point fo from all manner of doubt, that for the future there fhall be no further queftions made of it again; the miftake, I am fatisfied, has only proceeded from hence, that we are in thefe parts as great Strangers to that fort of Animal call'd the *Alche Elche*, or *Elende*, as we are to this of our own Country, Country, knowing by hear-fay only, that 'tis a large Beaft with big Horns; but unlefs we fhall give the fame Name to Two Animals vaftly different, which is Prepofterous and breeds Confusion, we must not allow these Horns should any longer pass under the Name of Elches Horns.

I have feen a Pair of genuine Elches Horns brought out of Swedeland, and they differed extremely, both in Figure and Size, from thefe we have now defcribed: they were abundantly finaller, quite of another fhape and make, not Palmed or broad at the end fartheft from the Head as Ours; but on the contrary, broader towards the Head, and growing still narrower towards. The Tips end, the smaller Branches not issue forth from both Edges of the Horns as in Ours, but growing along the upper Edge only, whils the other Verge of the Horn was wholly plain without any Branches at all.

And accordingly the faithful Ge/ner, in the first Chapber of his Book De Quadrupedibus, has given us the right Description of them, where he expresses the Figure of the Elche and its Horns apart; and speaking of the Size of them, he says, Cornua fingula Libras circiter Duodecem appendunt, longitudine fere duorum pelum (d). Whereas the Horns we find here in Ireland are near thrice that Length, and above double that Weight; though dry'd and much lighter from their being to long kept: But I confess, I say, this only by effimate, not having an opportunity to weigh exactly a fingle Horn by it felf, though I'm fure I can't be much out.

(d) That is, each Horn weighs about Twelve Pounds, and was in length almost Two Foot. Moreover

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Moreover the Elche, as defcribed by Apollonius Menabenus, who had feen many of them, is no larger than a midling Horfe : thefe are are his own Words, as quoted by Aldrovandus : Habet hoc Animal crassitiem & proceritatem mediocris & pinguis Equi (e). And agreeable to this is the Relation given in the Memoirs of the Parifian Anatomifts, who diffected one of them: And I remember Mr. Duncombe, then one of the Lords Juftices of Ireland, told me, when he was Envoy in Sweden, he had feen there above a Hundred Elches together in a Herd, and none of them above Five Foot high; and if so, we cannot imagine a Creature of that small Size, could poffibly support fo large and heavy a Head, with fo wide and spreading a Pair of Horns as these we are speaking of; confidering that exact Symetry, and due Proportion of Parts, Nature observes in the Formation of all the larger and perfecter fort of Animals.

We must then look out, and try if we can discover among the various Species of Quadrupeds, fome other, whole Size and Description will better agree with this our Irifh Animal than that of the Elche does: And after all our Inquiry, we certainly shan't discover any one that in all respects exactly answers it, fave only that Lofty Horned Beaft in the West-Indies, call'd, a Moofe.

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This Animal I find described by Mr. John Joffelyn, among his New England Rarities in these Words: The Moofe Deer, common in these Parts, is a very goodly Creature, some of them Twelve Foot high, (in height, fays another Author more particularly, From the Toe of the Fore foot to the Pitch of the Shoulder, Twelve Foot; in

(c) That is, this Animal is about the Height and Thickness of a midling Horfe. 197091010

its full growth much bigger than an Ox) with exceeding fair Horns with broad Palms, fome of them Two Fathom or Twelve foot from the Tip of one Horn to the other. That is, Fourteen Inches wider than Ours was.

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Another thus describes the Manner of the Indians Hunting this Creature : They commonly hunt the Moose, which is a kind of Deer, in the Winter. and run him down fometimes in half, otherwhile a whole Day, when the Ground is cover'd with Snow, which usually lyes here Four Foot deep; the Beast, very heavy, finks every Step as he runs, breaking down Trees as big as a Man's Thigh with bis Horns, at length they get up with't, and darting their Lances, wound it so, that the Creature walks heavily on, till tired and spent with loss of Blood. It finks and falls like a ruin'd Building, making the Earth thake under it. Thus far what these Authors say of the Moose.

I do not know any one that has yet obliged the Pub. Rick by giving an exact Figure of this stately Creature, which would be acceptable to the Curious, and very Svell worth the while of fome of those ingenious Inquifers that go into those Parts for the improvement of Natural Hiftory : for I take it next the Elephant, to be The most remarkable Quadruped for its largeness in the World. However, in the mean time, by the help of The foregoing Accounts, we may eafily form to our Selves a lively and just Idea of its Figure and Size; and if we compare the feveral Parts of those Discriptions, with the Beafts whole heads are found here in Ireland; we shall not have the least Reason to question but these vastly large Irish Deer and the American Moose, were certainly one and the fame fort of Animal, being all of the Deer Kind, carrying the fame fort of Palmed Horns, which are of the fame Size and Largeness as well Ffff 25

as Figure; and the Bulk of their Bodies corresponding exactly in Proportion to the wide spreading of their Horns. So that we may securely affert, that Mooses formerly were as frequent in this Country, as they have them still in the Northern Parts of the West Indies, New-England, Virginia, Maryland, Canada or New-France.

And least we may think this Animal peculiar to the Continent, and not to be found in Mands; I lately met with a remarkable Passage in John de Laet's French De-Scription of the West Indies, that clearly shews the contrary; which, because it likewife illustrates and confirms what was faid before, I'll fet down in his own Speaking of New-England, fays he; I'l y a Words. une certaine sorte de Beste frequente en ces Pais que les Sauvages noment Mose, de la grandur d'un Taureau, ayant la Teste d'un Dain, avec les cornes larges que muent tous les anns, le Col comme une cerf: il se trouve une grande quantite de ces animaux en une Isle pres de la Terre Ferme appelle des Anglois Mount Mansel. That is, There is a certain fort of Beast common in this Country, which the favage Indians call a Moofe, as big as a Bull (he had not feen I suppose those of the largest Size) having the Head of a Buck, with broad Horns, which they cast every Tear, and the Neck of a Deer: there are found alfo great Numbers of these Animals in an Illand near the Continent call'd by the English, Mount Mansell.

This may give us reasonable grounds to believe, that as this Island of *Mount Manfell* must of necessity had some Communication with the Main Land of *America*, to have been thus plentifully stockt with this sort of Beast; so *Ireland*, for the same Reason, must in the many past Ages, long before the late Discovery of that New World, had some fort of Intercourse with it likewise, (though

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'tis not eafy, Iacknowledge, for us at prefent to explain how) for otherwife I do not fee, how we can conceive this Country fhould be fupply'd with this Creature, that for ought I can yet hear, it not to be found in all our Neighbourhood round about us, nay, perhaps in any other Part of Europe, Afta or Africa: And then 'tis certain as Ireland is the laft or most Western part of the Old World; fo'tis nearest of any Country to the most Eastern Parts of the New-Canada, New-England, Virginia, &c. ahe great Tract of Land, and the only one I yet know, Emarkable for plenty of the Moofe-Deer.

And we may observe yet farther, That a fort of Alliance between these Countries of Ireland and the West-Inedies, appears likewife in other things, of which they partake both in common. For as they on the Coast of New-England and the Island Bermudas gather confidera-Dle Quantities of Amber-greese ; so on the Western Coast of Ireland, along the Counties of Sligo, Mayo, Kerry and the Isles of Arran they frequently meet with large parcels of that precious Substance, so highly valued for ats Perfume. In the Year 1691. Mr. Constantine an Apothecary of Dublin, shewed me one piece of Amber-Egreese found near Sligo, that weigh'd Fifty Two Oun-Sces; he bought it for Twenty Pound, and fold it in London afterwards for above a Hundred. On the out-fide Etwas of a close compact Substance, Blackish and shining like Pitch; but when it was cut the infide was more Sporous, and fomething of a Yellowish Colour, not fo Grey, close and smooth as the cleanest and best fort of Amber ; but like it, speckled with whitish Grains, and of a most fragrant Sent; I have stilla Piece of it by me, that weighs above Six Drams, with feveral Samples of Three or Four other forts of Amber, all found on that Coaft of Ireland; fome entirely black as Pitch, others of Ffff 2

of a perfect White Substance, exactly answering the Deforption of that fort of Amber, Olaus Wormius mentions in his Museum, Page 34. under the Name of Ambræ Griseæ nondum maturæ.

Nor is the kind of Whale-Fish that's often taken in New-England, and affords the true Sperma Ceti a Stranger to the Coast of Ireland that respects America. This we may properly, I think, with Dr. Charleton, call the Cetus Dentatus, from its large, folid, white Teeth, fixt only in the lower Jaw; to diftinguish it from that Species that gives the Whale Bone, most naturally named by Aristotle in his Historia Animalium Mysticetus, from its bearded, horny Laminæ in the Roof of its Mouth: of which kind likewise there have been Three or Four stranded in my time; but on the Eastern Coast of this Country that regards England.

This Cetus Dentatus is faithfully described by Carolus Clustus, in his Sixth Book of Exotics, Chapter the 17th, under the Name of Cete, aliud admirabile; and truly figured by John stonus in his Historia Piscium, Table the 42d. and by Mr. Ray in his Ichthyographia, Table the 1st. but by both under the too general Name of the Balena. There have been Three of this Kind taken to my Knowledge, in the Space of Six Years, all on the Western Coast of this Country; one near Colerane, in the County of Antrim; another about Ship-harbour, in the County of Donnegall; and a Third in August, 1691. Seventy one Foot long, exceeding that described by Clustus, Nimeteen Foot, towards Bally-stannon, where Lough Erne discharges its Waters into the Western Ocean.

And then it was, I had an Opportunity of truly informing my felf what fort of Substance Sperma Ceti is, and

and in what Part of the Whale 'tis found : concerning which Matter, Phyficians and Naturalifts have given the World fuch various and falle accounts; and 'tis truly nothing elfe, but part of the Oyl or liquid Fat of this particular fort of Whale; which Oyl, at first when confused and mixt, shews it felf like a Whitish Liquour, of the Confistence and Colour of Whey; but lay'd by in Veffels to settle ; its parts by degrees separate, that Swhich is lighter and fwims a top, becomes a clear Oyl pellucid like Water, ferviceable for all the uses of common Train-Oyl, got out of the Blubber of other Whales, and that which subsides, because 'tis heavier and of a Sclofer Confistence, candies together at the Bottom, and Sis what is fold for Sperma Ceti, at Twelve Shillings the Pound ; when 'tis throughly blanched and refined from all its filth and the remaining parts of the Oyl, that Sotherwise discolours it, and gives it a rancid offensive Sent. Of this Substance feveral Hundred Pound Weight may be gotten out of one Whale, but the clean-Sfing and curing of it is troublefom, and requires no fmall Art, Time and Charge; which occasions the value of Ethat which is throughy refined : The Fat of the whole Body affords it, but that of the Head gives the great-Ecft Quantity and pureft Sperma Ceti.

I have fome reason to believe to these Instances of the Moose Deer, Amber-greese and Sperma Ceti, of which Ireland partakes more than any other Country of Europe from its Neighbourhood with the Northern America, we may likewise add fome of our more rare Spontaneous Plants, because they are found growing only in those Western Parts of Ireland, and no where else in this whole Country, or any of the Neighbouring Kingdoms about us.

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I shall mention but Two or Three of many which I have been told are peculiar to those parts, because I am not yet well asfur'd of the certainty of the others being fo : and those are the Arbutus five Unedo, or the Strawberry Tree; not to be found any where of Spontaneous Growth nearer than the most Southern Parts of France, Italy and Sicily ; and there too, 'tis never known but as a Frutex or Shrub : whereas in the Rocky Parts of the County of Kerry about Loughlane, and in the Islands of the fame Lough, where the People of the Country call it the Cane Apple, it flourishes naturally to that Degree, as to become a large tall Tree. Petrus Bellonius in his First Book of Observations, Chapter the 43d, takes notice, it does to in Mount Athos in Macedony; and Juba is quoted by Pliny in the Fifteenth Book of his Natural Hiltory, Chapter the 24th, as mentioning a thing extraordinary, for faying the Arbutus grows to a high Tree in Arabia; the Trunks of those in Ireland are frequently Four Foot and a half in Circumference, or Eighteen Inches in Diameter, and the Trees grows to about Nine or Ten Yards in Height; and in fuch plenty that they now cut them down, as the chief Fewel to melt and refine the Ore of the Silver and Lead Mine, lately discovered near the Cafile of Rols, in the County of Kerry.

The other Plant I shall take Notice of is Cotyledon, five Sedum ferratum Latifolium Montanum guttato flore Parkinfoni & Raii,' vulgarly call'd by the Gardners London Pride: I suppose because of its pretty elegant Flower; that viewed near at hand and examined closely, appears very beautiful, confisting of great Variety of Parts: The whole Plant is most accurately described by that profound Naturalist Mr. Ray, in his Historia Plantarum, Page 1046. where speaking of the Place where where it grows, he has these Words: Planta in Hortis mostris frequentisima est, ubi tamen Sponte oritur nobis Nondum constat, est autem proculdubio Montium incola (f). Though he knew no certain place where it grew Spontaneous, not having met with it in all his Travels; nor any Author mentioning its native Country, yet he rightly conjectures 'tis a Mountainous Plant, for it grows plentifully here with us in Ireland, on a Mountain call'd he Mangerton in Kerry, Six or Seven Miles over, and geputed the highest in Ireland, Two Miles from the Town of Killarmy, and Four Miles from the Castle of Foss: Here it spreads it felf so abundantly, as to cover great part of the Mountain, and for as much as I un-Berstand, like the Arbutus, 'tis peculiar to this County flone.

Whether both the foregoing *Plants* are truly Amerian, I cannot at prefent determine, but this I know, that Sabina Vulgaris, or Common Savin is mentioned by Mr. Joffelyn, in the Book before quoted, as a Plant common on the Hills of New-England; and I have been affured by an Apothecary of this Town, that he has gaahered Savin growing wild as a native Shrub in one of the Iflands of Lough-Lane, in the County of Kerry; and fo, I have reason to believe, that hereafter farther Inguiry may add to these I have given, several other Exmples of Things Natural and Common to that and This Country.

But to leave these Digressions and return to our Large Irish Deer, which well deserves we should affix to it some Characteristick Note or Proper Name.

(f) That is, 'tis a Plant common in our Gardens; but where it grows naturally is not as yet known to us, but certainly 'tis an Inhabitant of the Mountains. Whereby,

whereby it may stand ranged hereafter in its right Place in the Hiltory of Animals : fince Nature her felf feems by the Vast Magnitude and Stately Horns, she has given this Creature, to have fingled it out as it were, and shewed it such regard, with a defign to diftinguish it remarkably from the common Herd of all other imaller Quadrupeds. Naturalists have rais'd much Dispute. what Beast it truly is, that has had the Name given it by some of them, of Animal Magnum; Dodoneus, Menabenus, and others, would have it the Elche; Scaliger would have it the Bisons of Pliny, whether 'twas one or t'other, or neither, I shan't determine ; nor do I the least suspect that this our Animal was meant by it; however, for its goodly Size and lofty Stature, and to retain fomething of an Old Appellation, I think it may very well lay claim to it, and not improperly be call'd, Cervus Platyceros Altisimus; sive Animal Magnum Cornibus Palmatis, incolis Novæ Angle & Virginiæ, ubi frequens, Moose dictum.

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III. Part of a Letter from Mr. Antony van Leuwenhoeck, dated Apr. 3. 1697. giving an Account of several Magnetical Experiments; and of one who pretended to cure or cause Diseases at a Distance, by applying a Sympathetick Powder to the Urine.

I Have for many Years made divers Observations about the Loadstone, but made no Deductions from them but for some Months last past, having Two Load-