blance to the people of Japan, as might be deemed a strong family likeness. The Swedes, inhabiting the same country, are quite a different race; with large features, gigantic limbs, and stature. The Laplander is truly a pigmy : his Further voice, feeble and effeminate, accords with the soft- tions reness of his language. When taken from his tent, specting this People. he rolls his weak eyes about, like a bird or beast of darkness suddenly exposed to the sun. The Lapps are said to be more cunning than the Swedes, who consider them as a crafty set of knaves; just as the Gipsies are regarded everywhere. Perhaps their cunning may be principally due to the necessity they are under of being constantly upon their guard, lest they be maltreated; the people considering them as an inferior order of beings in the creation, and thinking it lawful to make them the objects of contempt' and ridicule, using their very name, Lapp, as a term of degradation. We have seen a Lapp, when surrounded by Swedes, deny himself to be a Laplander, as if ashamed and fearful of scorn. But they live better than the Swedish peasantry; and in their dealings demand specie, refusing the paper-currency of the country whenever it is offered. It is, nevertheless, impossible for human beings to wear an aspect more hideous than some of their old women;

Observa-

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CHAP. IV. and hence it is that the credulous fear them. and suppose them gifted with the powers of witchcraft. A person unaccustomed to their appearance, meeting one of these creatures suddenly in the midst of a forest, would, as we have said before, start from the revolting spectacle: the diminutive stature, the unusual tone of voice, the extraordinary dress, the leering unsightly eyes, the wide mouth, nasty hair, and sallow shrivelled skin, " the vellum of the pedigree they claim," all appear, at first sight, out of the order of Nature, and dispose a stranger to turn out of their way. The men whom we saw upon this mountain, notwithstanding the keenness of the morning air (Fahrenheit's thermometer then being at 45°); made their appearance with their necks and bosoms bare, exposed to the chilling blast. Upon the dwarf birch-trees round their tents, the limbs and carcasses of rein-deer were drying in the wind. These articles of food are offered for sale to the peasants, together with the fermented milk of the same animals, contained in the paunches of rein-deer. and hung up with the flesh. Sour-milk thus prepared may be kept all the winter: it is in great request among the inhabitants, who buy it of the Lapps. Many of the Lapp women crowded round us, as soon as we arrived : their necks

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and fingers were covered with trinkets and rings. We prevailed upon some of the younger females to sing. Their tone of voice did not differ from the sort of howl we had heard in *Torneå Lapmark*; but they accompanied their voices with a continued beckoning motion of their right hands, standing at the same time opposite to each other, while they sung; which were gestures we had not before observed.

Near the tents there was a large enclosure constructed of trees, thrown together so as to form a tall fence like a cheval-de-frise. This enclosure contained about six or seven hundred rein-deer, and many of the female Lapps were employed milking them. Other rein-deer were roaming about the mountain; and, at a distance, we saw several Lapps dragging more of these animals towards the enclosure. They are thus folded every night for milking; the fence serving to confine them, and to protect them from the wolves; some persons being constantly appointed to watch them in their enclosure, which has only one narrow gate or place of entrance. We breakfasted by taking draughts of the reindeer milk, which was as rich and luscious as cream, tasting deliciously sweet: but we had afterwards reason to repent of our rashness in having so done; as this milk is very difficult of

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digestion, and we were grievously troubled with head-ache in consequence. Afterwards, we entered into the tents, and sat down in some of them. The Laplanders themselves have a peculiar mode of sitting in their tents, which may be considered as one of the marks of their Asiatic origin: they first kneel, like a Turk or Arab preparing for his devotion; then, leaning back, they sit, in this posture, upon their feet. Every thing respecting the economy and arrangement of a Laplander's tent, and of their manners and customs, has been represented by plates, and accurately described, in the curious work of the Missionary Leems1: but this work is so rare, that we shall briefly describe the ground-plan of one of them, according to the notes made upon the spot. The hearth, or fire-place, is in the centre, between two parallel rows of stones; and a large oblong stone is placed at the entrance: smoke, always filling the tent, escapes through a hole in the top. Pots, kettles, &c. hang from the sides. In the small space between the parallel rows of stones is the only area for cooking. The floor is covered with bushes of the Betula nana; upon which are

(1) Canuti Leemii de Lapponibus Commentatio, multis tabulis æneis Filostrata, &c. Kibbenhavn, 1767.

laid rein-deer skins, for the beds, all round the hearth.

We took this opportunity to buy one of their finest and fattest rein-deer; upon condition that a Lapp would conduct it to Brachen, upon the Norwegian side of these mountains, and there kill it. This fine animal was five years old : we paid for it seven rix-dollars, in silver; and would gladly have sent it to England from Trönijem; but without a Laplander to attend it, we knew that it would not live. It is also necessary that a Laplander should kill the rein-deer, in order to taste their venison in perfection. Their mode of doing Their mode this is the same used by the butchers in the Rein-dem. south of Italy ; the most antient and best method of slaving cattle, because it is attended with the least pain to the animal, and the greatest profit to its possessor. They thrust a sharp-pointed knife into the back part of the head, between the horns; so as to divide the spinal marrow from the brain. The beast instantly drops, and expires without a groan or struggle, as if it fainted. The blood is not suffered to flow; but is collected afterwards into a pail from the stomach, yielding about two gallons : it is then used for food. In this respect the method differs from that of the Italian butchers, who open the throat after the beast has fallen, and suffer the blood to flow.

of killing

CHAP

FROM MALMAGEN TO TRONYEM. The Laplander, as soon as the rein-deer falls and

appears to be dead, plunges the knife dexte-

rously behind the off-shoulder, into the heart; then opening the animal, its blood is found in the stomach. The skin which is taken from the legs and feet, they prize highly; because they make their shoes of it. The *Laplander* who attended our *rein-deer* begged for this part of the skin, and was very thankful for it when we allowed him to take it.

After our visit to the Lapps, we ascended the lofty Fjal, upon which they had pitched their camp; and crossed over into the other road; if roads they may be called, which exhibit no other vestige of human labour than, at every quarter of a Swedish mile, a tottering pillar of wood, to mark the distances. We passed three of these; the third being the last in Sweden. Here we first observed the rivers beginning to take their course towards the Norwegian Seas: and a wide Alpine prospect before us plainly indicated that we had now attained the highest point of the passage into NORWAY, whence we were to descend into other regions, and visit another people. A feeling of regret was excited at the moment; and we looked back with hearts yearning towards Sweden. In the pleasing recollections then suggested, we called to mind

Passage of the Norwegian Alps.

Valedictory Retrospect of the North of Sweden.

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the simple and innocent lives of the arctic farmers, fishermen, and hunters; jovial Finlandhospitable Westro-Bothnia-hearty Angermannland-merry Helsingeland-sturdy Herjeådalenall, all were gone ! Nothing remained to us of SWEDEN, save the athletic natives of Funnesdalen, who attended as our guides; and a grateful association of ideas made us regard them as our friends.

We descended, a long time, by a doubtful and Descent perilous path (among low birch-trees, hardly Heights. rising higher than our heads, and disposed to creep like the Betula nana), through bogs, and over slippery rocks. In these bogs we found the cloudberry, covering all the surface from the very summit. The jaded horses on which we rode, were almost buried in some of the swamps. Very often, not a trace of any path could be discerned ; and, more than once, our guides having lost their way, made us measure back our paces in search of it. Towards the north-west, mountains in greater number, and more lofty than any we had yet seen, appeared far beyond us: one in particular, which, if we rightly apprehended our guides, was called St. Sharven-Field, of prodigious elevation, and of a conical shape, had for its base a series of other mountains. It resembled one of the Paps of Caithness in

from the

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Scotland, as seen from the southern coast of the Murray Firth; and, from the truncated appearance

of the upper part of the cone, like that of Mount Vesuvius and other volcanic mountains, we suspected that it might have had a volcanic origin ; but this was mere conjecture : its distance was much too remote from our route to enable us to satisfy our curiosity in this respect. At length we reached the margin of a small lake, called the Bolagen Siö, which discharges itself into the Oresund, by a stream called Borgen : it is the source of the GLOMMEN, one of the largest, if not the most considerable, of the Norwegian rivers. Traversing the whole of Norway, from north to south, after a course of three degrees, it falls, by several mouths, into the Northern Ocean, at Fredericstad. In the Bolagen Siö, and in the Oresund Lake, is found that species of fish which we have so lately mentioned : it is called Rua, both by the

Nource of the Glommen. River.

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Fish called Rue.

Swedes, and by the Norwegians; and this name is CHAP. written Röe.

The little dog which accompanied us in all our travels, disturbed several Sno-Ripas. They Species of were here in great number among the underwood; and as often as they were disturbed they rose before us, displaying their beautiful plumage, now beginning to assume the whiteness it exhibits during winter, but variegated by hues of a bright yellow. The value of our Difficulty guides was here sufficiently apparent: without Route. them we could not have advanced another step. In places where there was not the slightest trace of any path across the numerous bogs that surrounded us, these men led the way; thrusting their poles into the swamps to find a bottom; and if they hit upon it, though at the depth of three or four feet, they boldly ventured on, and Bade us follow with the horses. The surface of these bogs vibrated in such a manner to the horses' feet, that the poor animals, taking the alarm, began to snort and hesitate, as if they were aware of the probability of their being buried together with their riders, should the surface give way with their weight. We had sent our waggon by a different route, over Rhute Fjal, to Brakken, from Malmagen: but when our servants arrived, we found that they had encoun-VOL. X.

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tered greater difficulties; their horses being quite exhausted, their shoes torn off, and expecting at every instant to be compelled to abandon the waggon altogether. It is right to state this, that others may not be induced to attempt this passage with a carriage, which, in the present state of the country, would be impossible; although a little expense and labour would render it as easy a journey as any other part of Sweden. The policy of the two nations, at this time, rendered it expedient not to promote an intercourse between the opposite sides of this barrier. After descending these mountains, the first village, and indeed the first place of any habitation in NORWAY, is Brække', or Brakken'; pleasingly situate in the midst of meadows, which were now pasturing upwards of fifty cows, besides sheep and goats.

Brakken.

Change observable in the habits of the Natives. We experienced an agreeable surprise in observing a change for the better, as to accommodations, immediately upon our leaving Sweden. The cleanliness of the cottages on the Norwegian side of these mountains was very remarkable; and the resemblance to English customs and language, which we had remarked in the moun-

(1) According to Pontoppidan.

(2) According to Baron Hermelin.

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tainous parts of Sweden, was here more striking than ever. Every thing we saw called to mind "the good old times" of England. Polished pewter dishes and earthenware plates, set in rows along the walls; rows of brown mugs for beer; burnished kettles and saucepans; bright wooden benches, bedsteads, chairs and tables, bleached with frequent scowering; pails and ladles, white as the milk they were to contain. And besides this, a great improvement in the condition of the natives; better clothes, better bread, and many even of the luxuries of life. The Swedish peasants who visit these parts buy of the inhabitants some of the last, such as brandy and tobacco; which, fortunately for the natives of Herjeådalen, they have not at home. A striking difference is also discernible between the inhabitants of the two countries. The Norwegians are a smaller race of men: the athletic and gigantic stature characteristic of the northern Swedes no longer appears. There is also a difference of dress and manner: instead of a hat or scull-cap, the Norwegian wears a red or blue woollen night-cap, or else a cap shaped like. that of an English jockey; and, instead of strings in his shoes, enormous brass buckles, covering almost the whole of the upper part of the foot: instead of open hearths for fire-places, the less

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Oresund Lakg. Beckäüs. Storvartz.

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cheerful and unpleasant stove appears in every chamber: instead of woollen counterpanes, lined with woollen fleece or *rein-deer* skins, the beds in *Norway* are covered with bags stuffed with the down of the *Eyder*-duck.

At Brække we killed our rein-deer. The Lapp who conducted the animal to this place performed the office of butcher, and divided his carcass into quarters, which we afterwards carried with us to Trönyem. He remained with us during the night, taking care to intoxicate himself the next morning, when he took his leave. We were sorry to lose him; knowing it would be the last we should see of this extraordinary people in their own country. It was necessary to procure a boat from another village to cafry us across the Oresund Lake to Beckåås; whence it is barely possible to conduct a carriage upon wheels to the Storvartz mines; and hence there is an excellent road to the town of Rönäås, pronounced Rurose. Our little waggon was six or seven times overturned, in that short distance. We dined at Beckåas, cand found the same neat and cleanly accommodations we had met with at Brække. In crossing the sands to get into the boat at Brokke, the boatmen shewed to us the impression of a bear's foot, which had passed to the woods at

the base of the mountains but a few hours before, and had been seen by some of them. Numbers of Alpine plants may be collected on the shores of the Oresund Lake, and in great perfection; especially the Alpine species of Astragalus, Gentiana, Lycopodium, Pedicularis, &c. We remained at Beckåås during the day; being unable to procure horses before the evening. At that time being ready to start, one of the peasants wanting his comrade, and supposing that he was in the house, opened the door of our apartment, and said, " Are you here, Christian ?" We have written the words exactly as he pronounced them: of course the spelling would not be the same in the Norwegian language; but this will serve to shew that, in many instances, the Norwegian language does not differ from our own; and we seldom found it difficult to make ourselves understood by the people of that country. In leaving Beckåås, looking back towards the Alps over which we had so lately passed, we perceived that they were covered with snow; and this change had been effected during the preceding night. It was almost dark when we arrived at the yawning caverns of Storvartz: their appearance, added to heaps of excavated minerals, plainly proved that we were among mines. The moon rose in

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Röräås./

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great splendour; and gaining the main road, we had no further difficulty, but ran down quickly to Rökåås. The winter was evidently fast approaching, or the elevation must have been still very considerable; as our clothes and waggon were covered with a hoar-frost when we entered the town.

We were greatly surprised by the appearance of this place; not having any idea that a town of such consequence existed so far to the north. The streets and houses are of considerable magnitude; and were it not for the turf upon all the roofs, it would look more like a town in Holland than in this remote part of Norway. We were received by an old and intelligent Apothecary, who had attained his eighty-fourth year; a very worthy man, with a voung wife, whose house had long afforded accommodations of the very best kind to travellers. We had not been in a more comfortable mansion since we left England. In the Livre des Etrangers we found, to our great joy, the names of our two friends, Otter and Malthus, from whom we parted at the Wener Lake, upon our first coming into Sweden; and received from our host the only intelligence we had since received of their welfare. They had visited a Lapland colony in the neighbourhood,

News of our former Companions,

which was the most northern point of their CHAP. journey'. These tidings, and the welcome we experienced from the good old apothecary and his family, made us regard his house as a home; and we determined to remain two or three days in Röråås, and make a visit to its famous Coppermines. Every thing afforded a contrast to the objects we had left: on each side of the door of the house, facing the street, was the statue of a Negro as large as life, in the true Dutch taste; yet, uncouth as these figures were, they exhibited the dawning of arts characteristic of more civilized life than could be found in the savage scenes of the Swedish forests; and we therefore hailed their appearance with joy. After a comfortable supper, we were shewn up stairs² to our beds, for the first time since we left England; and even this novelty, trivial as it may seem, vet serves to mark a very striking distinction of manners. There was, in this house, an entire Library of library of books condemned to supply waste- English-

a learned man.

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(1) Messrs. Otter and Malthus afterwards returned through Norway and Sweden to Stockholm ; and thence, passing through Finland, were for some time detained at Wibourg, during the tyranny of the Emperor PAUL; which place they afterwards quitted for Petersburg, where they embarked for England.

(2) The beds in Sweden, as in almost all parts of the Continent, are upon the same floor as the sitting-room ; and generally a single room answers for all the purposes of eating, sleeping, &c.

paper for the drugs, grocery, &c. sold by the old apothecary: it had been the property of an English gentleman of the name of Hammond, who died here; but nothing further could we learn of his history. Judging from the selection he had made of authors for his studies, and from some manuscript notes, written by himself in the Latin language, in a fair hand, in many of the volumes, it appeared that he was a man of learning, and had been engaged in the most profound theological researches nearly half a century before. The principal part of the library consisted of Commentaries upon the Old and New Testament: among these were the works of Lightfoot, in folio, bound in white vellum; Ainsworth on the Pentateuch, also in folio; the works of Vorstius; and a vast heap of philological writings on the Arabic and Æthiopic languages, and the respective antiquities of Arabia and Æthiopia. We bought many of these books: they were in excellent condition: it was guite lamentable to see the havoc that was going on, and had for a long time taken place, in this valuable library'.

(1) In a small Quarto Volume of the Philologia Sacra of Vorstius, printed at Franckfort in 1705, his name appeared with the date in this manner: "Suis annumerat libris comparatis Hafnia, V. F. W. Hammond, 1751."

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The next day (September 21) the Director of CHAP. the mines waited upon us, and very politely offered his services. We begged permission to visit the works, and to purchase minerals upon the spot. This was readily obtained ; and having procured horses, and an experienced miner to accompany us, we rode to the mines. They are distant, east of Röråås, about five English miles towards the Oresund Lake, and have long been considered among the most considerable in his Danish Majesty's dominions². The Prince Royal visited these mines. They still exhibit an arch in one of them, which was ornamented with 300 lamps when he was there. The road leading from Röråås to its mines lies through a Röråås. dreary stony heath, with a chain of small lakes in a bottom to the right, which form one of the small rivers that fall into the Glommen. The cottages are like the little huts of the South of Scotland ; being built with similar materials, and in the same manner. By the side of this road we found many Alpine plants. The Ranunculus glacialis was in flower. The Betula nana had a smaller leaf than even upon the summits of the Alps between Sweden and Norway. We gathered here the seeds of the Saxifraga azoïdes. The

(2) They belong now to Sweden.

Visit to the Coppermines.

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first thing that we were shewn, upon our arrival at the mines, was the dormitory of the workmen, who sleep upon boards, before an enormous fire, with rein-deer skins for their pillows. We were struck by the unhealthy appearance of the workmen; almost all the miners being asthmatic. The reason assigned for this by the Director was threefold; first, that they come much too young to work; secondly, that they work by the gross, and often injure their health by the violence of their exertions; and thirdly, that it is a constant practice with all of them to drink large draughts of cold water, when they are very hot. But perhaps the real cause of the prevalence of this disorder may be found in the sulphureous exhalations from the works, which are so powerful in the neighbourhood of Röråås as to affect the inhabitants. The great nfine; into which we descended, like all the others here, is as easy of access as the interior of a cathedral church. Instead of a descent vertically, the entrance is by a level road into a cavern; whence the declivity is so gradual, that carts, drawn by horses, are conducted into all parts of it; the different chambers being lofty, spacious, and airy; so as to render it more convenient for investigation than perhaps any other mine in Europe. The guides,

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who accompanied us, carried with them deal splinters, bound into fagots, each bundle being about as thick as a man's arm. These splinters they used as torches; and they answer the purpose of lighting such dark passages much better than the candles used for the same purpose in our Cornish mines. The lower chambers of all the Cornish mines are very hot: but these of Röråås are so cold, that ice appears everywhere in large masses, or in icicles hanging from the roof, and from the ladders fixed in the shafts; the steps of which are covered by ice, in such a manner as to become thereby slippery and dangerous. But hitherto it had been so practicable to remove the ore, by means of carts and horses, that they had scarcely introduced a shaft into the mine. A short time, however, before our coming, they began to find the necessity of opening shafts, and already found the advantage of using them in a few places.

The copper ore of the Röråås mines is a sulphuret (commonly called yellow-copper ore, or pyritous copper), often associated with hornblende. They have no grey copper, in these mines. The ore is also accompanied by the sulphuret of iron, crystallized in cubes and in octahedrons: also by dodecahedral garnets; the last being found in

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such abundance, imbedded in chlorite schistus, that we found heaps before the entrance of the mine, where the beautiful crystals of garnet were so thickly set in their matrix that entire masses seemed to consist of nothing else. The other minerals, for which the Rördås mines are remarkable, are, amianthus, of such exceeding whiteness, silky lustre, and length of fibre, that we had never seen any to compare with it; and also guartz, as highly diaphanous as the most limpid rock-crystal. Speaking of the latter mineral, Engeström says', that it is "transparent comme le cristal de roche, mais sans figure déterminée:" but he might have been aware that such transparency in a mineral is in itself an indication of crystallization, and cannot exist without it. If he had seen this beautiful quartz as it appears in situ, he would have observed the planes of Godecahedral crystals ; which may be discerned before the miners have broken the surface with their hammers. 'We descended for a considerable time; the arch of the cavern being high, low, broad, or contracted, according to the extent of the vein when it was worked. When we were at the depth of about fifty Norway yards perpendicular, we halted to hear three

(1) Guide aux Mines, par Engeström, p. 39. Stockholm, 1796.

reports from the blasting of the ore by gunpowder, which sounded tremendously; and this subterraneous thunder continued to vibrate for a long time upon the ear. We afterwards examined the places where the rocks had been riven for the ore that they were then working.' To the eye it appeared very rich, like the pyritous copper of the Paris-mountain mine in the Isle of Anglesea: but this kind of ore is by no means to be compared, in richness, with the grey sulphuret; seldom yielding more than twenty or thirty per cent. of copper. The most extraordinary thing is the direction of the ore, which occurs here, and in the other mines, stratified in horizontal beds, traversing mica slate; or, as the miners upon the spot call it, Glimmer Shifver. This explains the facility with which, for so long a time, the ore has been carted and carried out of the mine. It is considered one of the richest deposits of copper ore known. Pontoppidan says', that since the mine of Fahlun, in Sweden, is said to be near exhausted, possibly that of Röråås is the richest in all Europe. It was discovered, in 1644, by Laurence Lossius, a refiner at a neighbouring mine. Upon the 9th of October, 1744,

(2) " Natural History of Norway," by Erich Pontoppidam, Part 1. p. 192. Lond, 1755. 189

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a Jubilee was celebrated by the inhabitants of Röråås, in gratitude for the uninterrupted prosperity of their mine during the course of a hundred years. One of the oldest courses is that of Storvartz mine. "These courses of the copper-veins," observes Pontoppidan, "agree in their direction with those of the other parts, neither ascending nor declining, but, like the other strata, traversing the mountains horizontally, though thinnest towards their centre; like a lump of dough, which, pressed betwixt two stones, is thinnest where the pressure lies greatest '." The horizontal and expanded direction of the same copper-veins are also described in a Memoir read before the Royal Academy of Sciences at Stochholm, in 1742, by Daniel Tilos, cited by Pontoppidan². The vast importance of the discovery, and its consequences, as affecting the happiness and welfare of the people, were simply, but pointedly shewn, in a short passage which the same author also cites from the Sermon preached by Peter Abildgåård, at the Jubilee before mentioned. "It is not much above a hundred years," said the Preacher, " since the

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only inhabitants of these parts consisted of CHAP. seven or eight families, making about thirty or forty persons; and these led a savage life, and derived all their support from hunting; whereas now the number of this congregation exceeds two thousand, exclusive of the neighbouring, which contain many more; and all subsist by the working of the mine." At a place called Tolgen, near Röråås, there were three founderies for smelting the ore, which, in Pontoppidan's time, consumed annually between 12 and 15,000 lasts of coal, and 5 or 600 fathoms of wood. In the course of eleven years, the copper-ore smelted at those founderies had yielded 12,875 shippounds of pure copper; each ship-pound being equal to 320 pounds of Norway. That we may therefore shew what the state of these mines was at the time of our arrival, we may now add, that the quantity of copper raised amounted upon an average, annually, to above double what it had been. In the last three years they had raised 7408 ship-pounds. The sum total of the workmen in the Röråås works amounted to 650 persons; of whom 430 were employed in the mines, and 220 in the smelting-houses. The fuel used for these houses was principally coal; and of this they consumed annually from 26 to 27,000 lasts; each last being equal to two English

CHAP. a Jubilee was celebrated by the inhabitants of Röråås, in gratitude for the uninterrupted prosperity of their mine during the course of a hundred years. One of the oldest courses is that of Storvartz mine. "These courses of the copper-veins," observes Pontoppidan, "agree in their direction with those of the other parts, neither ascending nor declining, but, like the other strata, traversing the mountains horizontally, though thinnest towards their centre; like a lump of dough, which, pressed betwixt two stones, is thinnest where the pressure lies greatest¹." The horizontal and expanded direction of the same copper-veins are also described in a Memoir read before the Royal Academy of Sciences at Stockholm, in 1742, by Daniel Tilos, cited by Pontoppidan². The vast importance of the discovery, and its consequences, as affecting the happiness and welfare of the people, were simply, but pointedly shewn, in a short passage which the same author also cites from the Sermon preached by Peter Abildgåård, at the Jubilee before mentioned. "It is not much above a hundred years," said the Preacher, " since the

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(2) Ibid.

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only inhabitants of these parts consisted of CHAP. seven or eight families, making about thirty or forty persons; and these led a savage life, and derived all their support from hunting; whereas now the number of this congregation exceeds two thousand, exclusive of the neighbouring, which contain many more; and all subsist by the working of the mine." At a place called Tolgen, near Röråås, there were three founderies for smelting the ore, which, in Pontoppidan's time, consumed annually between 12 and 15,000 lasts of coal, and 5 or 600 fathoms of wood. In the course of eleven years, the copper-ore smelted at those founderies had yielded 12,875 shippounds of pure copper; each ship-pound being equal to 320 pounds of Norway. That we may therefore shew what the state of these mines was at the time of our arrival, we may now add, that the quantity of copper raised amounted upon an average, annually, to above double what it had been. In the last three years they had raised 7408 ship-pounds. The sum total of the workmen in the Röråås works amounted to 650 persons; of whom 430 were employed in the mines, and 220 in the smelting-houses. The fuel used for these houses was principally coal; and of this they consumed annually from 26 to 27,000 lasts; each last being equal to two English

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CHAP. IV. raged 107,000 to 112,000 rix-dollars. These particulars we had from the director of the mines, Mr. Knoph.

> ' We afterwards descended lower; and walked about among different excavations, lighted by the torches of deal splinters held by men black as the eternal night of these caverns. Among the miners who were at work in making holes for the powder, we observed some athletic figures, of stature and appearance fitted to call to mind the poetical descriptions of Vulcan's associates, the Cyclops. In boring for the blasts, the holes are made a Norway yard (two feet English) in depth. Seven ounces of powder are put into each hole, confined with dried clay driven in with much force. From ten A.M. to twelve are the hours of blasting; and those labourers who are not absolutely necessary for this part of the work are allowed to remain above ground during these hours. Before the explosions begin, one of the superintendants examines all the holes; and if they be not a proper depth, they are filled up again, and the man who made them is obliged to bore others. The stated labour of each man is two holes a day; for which, when they have served their apprenticeship of ten years, they receive five

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dollars a month. Those who have not worked CHAF. ten years, receive only four dollars, or four and a half; even though they do' exactly the same quantity of work. Besides the stated labour. there are odd jobs by which a man may add. to his earnings. The miners work from Monday morning till Friday noon: they remain in a house by the mines during these days, and go home to Röråås to their wives and families on the Friday. Sometimes, by working harder, they finish their appointed labour before the time, and are allowed to go home sooner. They generally work from four A.M. till five P.M., except meal-times, and two hours, from ten till twelve. While we remained in the mines, explosions were continually going off; and those at a distance rolled so exactly like thunder, that they were not to be distinguished from it. There are generally 150 explosions during the hours of blasting. The ore is carried in small carts with horses, in the lower parts of the mines, and brought to shafts to be raised. The shaft we saw was only fifty Norway yards (100 feet English) deep ; but there was another about 100 yards perpendicular from the surface. These shafts, as in all mines, serve to give air to the lower chambers; and up these the water is pumped by engines. The greatest depth of

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any part of this mine is 150 Norway yards: we were never lower than sixty. The excavations extend in a straight line about 1500 yards; but they are of considerable extent in other directions. The mine is divided into 172 shares. Each share produced last year 400 dollars clear. Formerly, a share produced 500 or 600 dollars. The greatest proprietor possesses eighteen shares. Mr. Angel, better known as the great benefactor to the city of Trönyem, possessed eighteen shares; and there are now one or two, among the proprietors, who possess more.'

The prodigious benefit which has resulted from working these mines is not felt only in *Röråås*. The prosperity and flourishing state of all the north of *Norway*, especially of the city of *Trönÿem*, improperly written *Drontheim*, are mainly due to its *copper-mines*. The country near *Röråås* contains a store of wealth for many generations : the only evil to be apprehended is a want of fuel, the neighbouring woods being already consumed, which occasions the *coal* to be brought from some distance, and consequently waises its price. "This," says *Pontoppidan*¹, "should incite those, of whom it is the more

(1) " Natural History of Norway," by Erich Pontoppidan, Part I. p. 195. Lond. 1755.

Carles 19712

immediate concern, to promote the growth of CHAP. young woods, and to restrain the keeping of goats, which do so much damage among the saplings; for how many thousand lasts of coal, beside stacks of wood, this copper-work requires, may, in some measure, be conceived only from this circumstance, that only the calcination of the ore requires a fresh fire, six, seven, or eight times."- 'At the four different furnaces of Röråås, Tolgen, Dragåas, and Feminds mitter, between 12,500 and 13,000 tons of copper are annually smelted.'

The prospect of the Norwegian Alps towards Situation Sweden, over which we had passed, was very fine. We had here our last view of them: they were now quite covered with snow. The situation, too, of Röråås, which we observed in returning, we had not before remarked; owing to the lateness of the hour when we arrived. The town covers the side of a hill, in the midst of mountains: it stands close to the junction of two small rivers² with the Glommen, immediately after it issues from the Oresund Lake. Close to the town are the smelting-houses: above it appear heaps of roasting ore, which yields a great Effect of quantity of the finest sulphur; but the pro- ous exhala-

of Rörääs.

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sulphuretions.

(2) The Haa, and the Hitter. 0 2

prietors of the works are not careful to collect it: the sulphur is seen covering all the smoking heaps; and its vapours, frequently descending, fill all the streets of the town, so as often to affect the respiration of the inhabitants. As we rode by some of those heaps, the suffocating fumes from them were almost as powerful as those which fill the crater of Vesuvius after an eruption. A Physician belonging to the place told us, that these sulphureous vapours produced the most pernicious effects. The Director of the mines assigned, as a reason for not saving the sulphur, that the expense of so doing would exceed any profit that might be derived from it. They would be under the necessity of sending it, by land, to Trönijem for exportation; there being little or no demand for it in Norway, owing to the want of powder-mills. All the copper of the Röråås mines is sent to Holland, and to the Rhine. The Danish East-India Company wished to purchase it, for exportation to China; but it was found that English copper sold at a lower price in Copenhagen than the Röråås capper could be afforded, when carried thither. The principal mines are three in number: the first is called the King's Mine; the second, Klinken's Mine; the third, Mug's Mine. One tenth of all the ore raised belongs to the

Exportation of Metal.

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Crown; but the mines are, all of them, the pro- CHAP. perty of private individuals. A very remarkable kind of breccia or pudding-stone, containing a variety of substances, occurs in and near the road leading to the mines: it resembles the aggregate of which the rocks are composed near Oban in Scotland. Pot-stone is also found here. The number of houses in Röråås amounted to 325; and of the inhabitants, about 1700 persons. The interior of an apothecary's house afforded us, of course, some little insight into the state of Medicine in this remote corner of State of Norway: it was not at so low an ebb as we had generally found it. Opium was little used, because the inhabitants are strongly prejudiced against it: they have excellent barh from Amsterdam, of which they make an essence. The common drink of the people is beer: it is almost always sour. By way of sauce for their food, they eat, as in Sweden, the different species of Vaccinium and Rubus, the whortleberry, the cranberry, and the cloudberry. In this manner, the flesh of young rein-deer was served at our table. We thought it like veal, but had a better flavour.

Upon the next day (Sunday), the miners having received a month's pay, there was a good deal of rejoicing, and a miners' ball in the evening.

Medicine.

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Dances.

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We attended the latter. The national dances of Norway differ from those of Sweden. The most common are, the Halling and the Polsk dances. We saw both of these at Röråås. The first is, undoubtedly, the dance of Hippoclides the Athenian, when contending with other rivals for the daughter of Clisthenes; namely, a dance in which the performer, standing upon his head, kicks his heels about in the air as his hands'. The other, that is to say, the Polsk, answers the account which Herodotus gives of the Attic dance performed to the Emmeleia, which, by its indecency, offended Clisthenes°. When we reached the room, in which the miners with their lasses were assembled, they were beginning the Polsk. In this dance a circle is formed, and two begin, turning each other something after the manner of a waltz. Presently the male dancer throws up his feet nearly as high as his head, squeaks, falls on his knees; and in this posture, leaning back till his head touches the ground, he beats the floor with his knuckles, and practises every possible grimace, look, and attitude, that may

 See the Vignette to this Chapter. Το τρίτοι δλ. την πεφαλήν Ιρίσας Ιστί την τράτεζα, τοΐοι σχίλιοι Ιχυρρούμησι. Heredot. Hist. vi. tom. 3. p. 132. Edit. Schweighæuseri, 1816.
(2) Ibid.

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express lasciviousness; then rising, without the CHAP. assistance of his hands, he dodges his head this way and that, and at length catching his partner in his arms, more waltzing takes place, and the dance concludes. When they all dance the Polsk together, the different couples move round to tunes resembling our English hornpipes; each man, as he comes opposite to the spot where the fiddler stands, for this is the signal, throwing up his heels in the manner before mentioned: squeaking, and exhibiting his amorous propensities as was described. During these movements the tune often changes, as in the waltz. Being provided with partners, we joined in the dance, at which they were all much delighted. It was quite surprising to observe with what agility, in the midst of all this leaping and turning in a small room, they managed to keep clear of each other. A tread from one of their feet, which descended upon the floor with shocks like so many paving-hammers, would have crushed the toes of the women, had it not been for this circumstance. The men universally wore red woollen night-caps; the women short jackets; each of them, in the dance, holding a handkerchief in her right-hand. The Halling is considered in the country as the older dance of the two: it is frequently performed by men

Price of Commo-

dities.

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only; and sometimes both the *Polsk* and the *Halling* are performed to the same tune¹.

Rein-deer skins were so cheap in Röråås, that a very good pelisse, made of these skins, might be purchased for three dollars. Other things sold at low prices. We bought fine old hock, in pint-bottles, at 'eighteen-pence English the pint: it is much dearer even in Hamburgh. The Director of the mines called to take his leave, and gave us letters of recommendation to the Director of the silver-mines at Kongsberg. He told us, that the population of Röråås was between 1750 and 1800, which agrees with what we have before stated. The latitude 62° . 34'. 40''.

Departure from Röråås. We left *Röråås* this morning (Sept. 23), at eleven o'clock A.M.; a light snow falling; the first we had seen, excepting upon the distant mountains. We ascended a bleak and barren tract of hills towards the sources of the *Guul* River, by the side of which our course to *Trönÿem* was directed. When we had gained the heights, the range of landscape below us was like that which is seen in the passes of the *Apennines*; but as we advanced, it soon changed, and

(1) See the Fignette to this Chapter.

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assumed the wildest aspect of bold and sublime CHAP. scenery. We could not call it Alpine (although . it had a great resemblance to some of the finest parts of Switzerland), because it possessed something of richness and beauty belonging to no other Alpine country : in fact, it was Norwegian : and it is the peculiar characteristic of the Norwegian mountains, to combine the grandeur of Alpine scenery, with the dark solemnity of the groves of Sweden, and the luxuriant softness of the vales of Italy?. The condition of the poor in Norway, and the state of morality among the lower orders, will not bear a comparison with Sweden. We have before remarked, that we saw not in all Sweden a single instance of persons begging upon the highway or in the towns. When we descended upon the village of Hoff, we were teased by importunate mendicants, and revolting objects, such as one sees in Ireland, making the most painful and disgusting exhibition to extort charity. The manners of the people Manners of differ, exceedingly, in Sweden and Norway. the former country, we were welcome everywhere to what we had; no demand of payment

the People . as opposed to the Swedes.

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(2) " The verdure in the Norway valleys is peculiarly soft, the foliage of the trees luxuriant, and in summer no traces appear of a Northern elimate."-Malthus on the Principle of Population, p. 198 (note). Lond. 1808.

was ever made; and the little we gave at parting always afforded an ample satisfaction. Here we began to observe the first symptoms of a difference, which was afterwards more strikingly manifested. Our hostess was covetous and imposing; and as we proceeded, we found it difficult to satisfy avarice, by paying whatever they asked. The cause of this may easily be explained: the country is more inhabited and more wealthy, and, the means of subsistence being more easily attained, the stimulants to active industry are less severe. Intoxication, rare among the Swedes, is common in Norway. The Norwegians are a less virtuous, but they are a more lively people, and possess many amiable and valuable qualifications. Hospitality is not rendered oppressive, as is often the case in Sweden; but among the higher order of Norwegians, it is most liberally bestowed : there cannot be found upon earth a more generous or disinterested race of men'. In the post-book at Hoff, we again saw the names of our two friends, with the date of their visit, July 23. One of them had been collecting, in this, as in

(1) There may be some appearance of anticipation, in making these remarks; but upon entering the country, the author wished to prepare the reader for the observations that follow.

Hoff

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other parts of Norway, facts, to elucidate a work °. which, after the opposition it experienced from s half-witted writers, has at length classed him in that degree of eminence as a philosopher, to which, by his great abilities, he is so justly entitled.

Leaving Hoff, the grandeur of the scenery increases at every step. We arrived at some smelting-houses, situate in a profound abyss, surrounded by cataracts, and in the midst of the roaring waters. The mine, whence the ore here smelted is taken, lies in a neighbouring mountain. This ore differs from that of Röråås, in being a purer sulphuret of copper, and in having a richer aspect. The diaphanous quartz, for which the Röråås mine has been celebrated, is also obtained here, and in finer specimens: also, very brilliant and beautiful cubic crystals of the sulphuret of iron. There are masses full of these crystals, possessing a high degree of lustre, and of the size of dice. A continuation of the same grand Alpine scenery delighted us the whole way to Sohnæs. The road following the course solnæs.

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(2) " An Essay on the Principle of Population ;" or a view of its past and present effects on human happiness, &c. by T. R. Malthus, A.M. late Fellow of Jesus College, Cambridge, and Professor of History and Political Economy in the East-India College, Itertfordshire.

of the Guul, was generally in the depth of profound valleys; but sometimes, traversing the side of a mountain, we overlooked the river from a lofty precipice, and saw flocks and herds grazing over all the pastures near it, and up the sides of the mountains to their very summits. One of the most remarkable sights is here afforded by the farm-houses, which seem to hang upon cultivated spots, one above another, until they reach the clouds. We often saw clouds skirting the side of a mountain, with the prospect of a rich harvest standing far above them; cattle, corn-sheaves, and labourers, in places apparently inaccessible. The fact is, that a preference is often given to such an elevated situation; for the higher the land is, the more sun it gets. A fine evening-sun shone warmly on the fields, where harvest was collecting towards the tops of the mountains, when all below was dark or shadowy: between Sindsåås and Soknæs, this kind of scenery is particularly striking. We observed, before and after our arrival at Bogen, high perpendicular naked rocks, with woods and farms upon their summits. We passed a very remarkable mountain: its form was perfectly conical; but it was very lofty, and covered with trees. We observed great cleanliness in the habits of the

Farms above the clouds.

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people throughout this route, excepting in the inn at Soknæs, which was more dirty. Here we gained the high road leading.from Christiania to Trönÿem, which we were very eager to reach. The son of the owner of the poor inn had a genius for painting, and delineated the costumes of the country with humour and accuracy. His chief employment consisted in painting sledges, trunks, and the walls of his father's house.

The next morning (Sept. 25) we set out for Trönijem, and crossed the Guul by a ferry: its waters, limpid as the purest crystal, ran rapidly at the feet of mountains, presenting, towards the river, precipices of many hundred feet of naked rock, tinted with vivid colours. Tempted by the delightful appearance of this river, the author was induced to bathe: when he plunged into it, the temperature of the water was nearly that of ice, and he felt the effects of his folly a long time afterwards. The chill that it gave to his blood was such as he never felt by coldbathing, during the hardest winter in England; vet the climate here cannot be very severe. Hazel-trees, bending with nuts, grow plentifully by the side of the road; and other trees appeared in much greater variety and luxuriance than in Sweden. The landscape now became bolder and more open; the corn still standing; the

CHAP. road broad and excellent. Farms in great number appeared on all sides, affording, by the variety and singularities of their situation, the most beautiful objects. We passed many elegant country-seats. The outsides of all of them were painted red; they had sashed windows, and the frames of the windows were painted green. The form and neatness of these rural retreats shewed their owners to possess a good deal of taste: they were generally oblong buildings, consisting of one floor. But the farm-houses afforded the most interesting sight, to us. If any one wishes to see what English farmers once were, and how they fared, he should visit Norway ; - immense families all sitting down together at one table, from the highest to the lowest. If but, a bit of butter be called for, in one of these houses, a mass is brought forth weighing six^c or eight pounds; and so highly ornamented, being turned out of moulds, with the shape of cathedrals set off with Gothic spires, and various other devices, that, according to the language of our English farmers' wives, we should deem it "almost a pity to cut it." Throughout this part of Norway, the family plate of butter seemed to be the state-dish of the house. Wherever we sat down to make a meal, this offering was first made, as in the

Resemblance to English Customs.

tents of the primeval Arabs, when Jael, the CHAP. wife of Heber the Kenite, " brought forth better in a lordly dish." But every thing is much dearer than in Sweden ; and what is worse, when it has been dearly paid for, the traveller has not the satisfaction which is enjoyed throughout Sweden, of leaving behind him countenances of cheerfulness and gratitude. These remarks, of course, are only applicable to the inns of the country. Possibly, in many of the farm-houses, a traveller would find as hospitable a reception as in the cottages of the Swedish fishermen and hunters in Herjeådalen, where inns can hardly be said to exist. We entered one of the largest Descripfarm-houses. Here we found twenty persons, Interior of all members of one family, assembled at the house. same table, eating their favourite harvest-pudding, out of large wooden bowls. This pudding is made of barley, and served hot. Into this mess, which resembles what is called hastypudding in our farm-houses, they dip their spoons: the spoon, being half filled with it, is afterwards dipped in milk, and with this sauce they eat it. At the head of the table sate the grey-headed patriarch of this numerous family, surrounded by his children and his children's children; for among the healthy and handsome young persons present, there were his sons and their wives, his daughters and their husbands;

tion of the a Farm-

and many of his grand-children ran towards him, CHAP. clinging to his knees, as being alarmed at our intrusion: but we soon became better friends with these little ones, who began romping with us, while one of the old man's sons saddled a couple of horses. We had walked before the carriage, which, being detained for horses, did not arrive. Two of the young men accompanied us to Melhuus, the next post-house : where we beheld a very different groupe, in a party of dragoons round a table at cards, drunk, turbulent, and fighting with each other. In Norway, if the traveller do not use the precaution of previously ordering horses at the different relays, before he begins his journey, he will sometimes have to wait for them two or three hours upon the road. And when horses have been ordered, if he be not punctual to the time fixed, he will be compelled to pay double the hire of them for the next stage; but if, on the other hand, the horses be not ready when he arrives, a fine is levied upon the postmaster, and the amount of it given to the poor. Our next stage was to Oust; whence, not finding horses ready, we set out on foot, determined to walk to Trönyem, the distance being only one Norwegian mile and a quarter¹.

Melhuus.

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Gust.

(1) The Danish, or Norwegian mile, contains 8223 English yards.

As we drew near to Trönyem, the country ap- CHAP. peared less woody, because more cultivated. Gentlemen's country-seats, in great number, fill Appearthe prospect in every direction. The gardens Country towards belonging to these villas are in the Dutch taste, being ornamented with clipped hedges, boxenclosed borders. tulip beds, leaden mercuries, wooden cherubs, and spouting swans : and this * formal arrangement, in a country where Nature herself assumes everywhere else a savage aspect, has by no means an unpleasing appearance. In England, where almost every acre shews the triumph of cultivation, the novelty of wild scenery has introduced a taste for restoring pleasure-grounds as nearly as possible to their natural state: but in a wilderness, we gladly dispense with a little of irregularity, and, especially under a Polar climate, hail the formality of a flower-border, and the stiff neatness of straight garden-walks, as so many symptoms of civilization. Perhaps to similar causes may be attributed the taste which prevailed among the Romans for this style of gardening. To them, England, and many other countries, were origi-. nally indebted for the old-fashioned shapes of birds and beasts, into which box and yew trees were formerly clipped, and for the regular parterres into which their flower-gardens were dis-

Appear-Trönyem.

the City.

tributed'. Notwithstanding these little ornamented patches, there was still enough to denote our vicinity to Arctic regions; the Betula nana and the Rubus Chamæmorus still covered all the bogs; and the Field Gentian bedecked the hills. We began to grow tired of our walk, when, having ascended a steep eminence, and turning suddenly round the corner of a rock, the glorious Prospect of prospect of the City of Trönyem, covering a peninsula in the finest bay the eye ever beheld, appeared far below us. Its rising spires and white glittering edifices immediately reminded the author of the city and beautiful Bay of Naples, to which it is somewhat similar. In the latter, the grandeur of Vesuvius, the cliffs and hanging vineyards of Sorrento, the shining heights and shores of Capri, with all the orange-groves of Baia, the rocks and caverns of Posilipo, possess, besides their natural beauties, a variety of local attractions, which, for the delights they afford, place them above every thing else in Europe : but, considered only in point of picturesque beauty, the Bay of Trönyem does not , yield to the Bay of Naples. It is everywhere land-locked by mountains, which resemble, as

> (1) "Alibi ipsa buxus intervenit in formas mille descripta." Plin. Epist. lib. v. Ep. 6. p. 349. Amst. 1734.

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to their height and distance from the eye, those CHAP. which surround the Bay of Naples ; Vesuvius alone excepted. The Castel del Uovo, so distinguished a feature of the Neapolitan Bay, is eclipsed by the appearance of the isle and fortress of Munkholm, opposite to the town of Trönyem. Up and down, in every direction near Arrival at the town, appear the villas of the merchants; and riding at anchor in the bay, ships of all burden, and boats passing and repassing. Among these, the boats of the natives are distinguished by the peculiarity of their construction, because they are always rigged with a large square sail, and have a single mast : in these vessels they venture to any part of the coast. The town itself is fortified, and the works are in the best condition; the ramparts and fosse being covered with a smooth green turf, kept in the finest order. and the owned

This city, once the capital of Norway, and residence of her Kings, by no means corresponds, in its actual appearance, with the accounts published of its diminished state and ruinous appearance^{*}. Although the last town towards the

(2) " NIDROSIA Civitas olim potentia, et sede Regia et Archiepiscopali eminentissima, totiusque Norvegiæ caput, et arca Regiorum monumentorum Norvagicorum, ut Pontan. lib. 5. p. 77. loquitur. Appoliationem Latinam deduxit à fluvio Nidero, cujus ostium obsidet. Mercaturæ et negotiationis

Tronyem.

Pole, the traveller viewing it sees nothing but what may remind him of the cities of the south. It is of very considerable size : its streets are wide, well paved, and filled with regular wellbuilt-houses, generally plastered and whitewashed. There is no part of Copenhagen better built, or neater in its aspect, than the streets of Trönijem. Its market is held in a square formed by the meeting of four principal streets. In the centre of the square is an excellent conduit, supplying the inhabitants constantly with the purest limpid water. Upon the north side of this square stands the finest wooden house in all Norway : a magnificent building, the residence of the General Commandant. Beyond this building, the view is terminated by the sea, by Munkholm, or Monh Island', and by the mountains on the northern side of a beautiful bay. Looking down the street, which extends westward, the prospect of the town is more suddenly intercepted by the

negotiationis causâ ab exteris æquè ac inquilinis frequentata. Celebritatis famâ aliquâ gaudet, quamvis nec vallo, nec fossis septa, sed ubique aperta, pagi potius, quam oppidi speciem præ se ferat. * * * Antiquo more ædificia constructa sunt, palatiumque Regium magis ac magis collabitur. Nam anno 1522 ipso S. Johannis Baptistæ feste die incensionem tam vehementem passa est, ut usque ad Præfecti domicilium conflagraverit. Ab eo tempore pristini splendoris recuperandi occasio nunquam hactenus se ipsi obtulit." *Deliciæ sive Amænitates Regnorum Daniæ*, &c. p. 1225. L.Bat. 1706.

(1) So called from a monastery formerly situate upon this small island.

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summit of a bold and lofty mountain, towering CHAP. high above the tops of all the buildings: the road from Christiania traverses and descends a part of this mountain, as it approaches nearer to the city. Casting the eye eastward, another mountain also appears, less lofty, and covered with cultivated fields, in which a rich harvest at this time was displayed above the tall masts of the shipping lying in the river Nid. From this river the city had its antient name of NIDROSIA": after surrounding the town upon its southern and eastern side, it falls into the bay. Again surveying the city from the central square along the street which extends southward, the land here gradually rises: passing the Academy and Public Library, on the right, it is afterwards terminated by the venerable remains of the old Cathedral, a Gothic structure of exquisite pristine beauty, although now disfigured by modern repairs : it was built so early as the eleventh century. In the street which extends eastward from the square, is the principal inn; a large mansion, with a small garden in front, surrounded by painted rails, and full of dwarf cherry-trees : at the time of our arrival, their branches were laden with fruit, adding a very unexpected

(2) Vide Amanit. Regn. Dania, &c. in loco citato.

ornament to the street of a city in such a latitude⁴. Opposite to this house is a Church; a large modern edifice, containing nothing, excepting its organ, worthy of notice. There is also an organ in the Cathedral, and another in a church belonging to the Hospital. In describing the appearance of the central square and the streets leading into it, we have given the main plan of *Trönijem*; but, parallel to the four principal streets, there are others, little if at all inferior, either in beauty or magnitude.

The accommodations here are of the best kind; and a traveller finds himself, upon his first coming, as well provided for as if he were in the Capital of *Denmark*. It is expected that a stranger, upon his arrival, should leave his card with the General *Commandant*, and with the principal people. If he bring with him letters of recommendation, the persons to whom they are addressed conduct him round, to call upon the other families : after this ceremony, invitations pour in from all quarters, and in much greater number than it is possible for him to comply with. The inhabitants are not less distinguished by their politeness than by their hospitality. Their houses are thrown open to

(1) 63°.24'. of north latitude.

Reception of Strangers.

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CHAP.

strangers in the most generous manner; but upon entering them, a degree of elegance is apparent, both in their furniture and in the form and disposition of their apartments, not seen in any of the Swedish towns, excepting Stockholm. Their customs are, to rise with the sun, when Manners of the Inhabithey take a small breakfast; and at nine they tants. have a kind of luncheon, which they call Duel. At twelve or one, they dine: the dinner is followed by coffee : and in the evening they drink tea and play at cards; when punch is always served. About ten they usually sup, but do not go early to bed. The lower order of people, in summer, sit up the whole night, and take no sleep for a considerable length of time. Sunday is, in fact, their sleeping day: if they do not go to church, they spend the greater part of the sabbath in sleep; and in winter they amply repay themselves for any privation of their hours of repose during summer. The young men of the best families, in Tronijem, possess a thirst for literature, and are as desirous of a University as their fellow-countrymen of Bergen and Christiania: but this was denied to them by the policy of the Danish Government; it being the wish of the Court that the Norwegians, resorting for their education to Copenhagen, should spend their money in the capital, where their morals become vitiated, and their manners softened and de-

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praved by luxury. The two countries of *Denmark* and *Norway*, although united, were held together by no common tie;—almost as much hatred existing between a *Dane* and a *Norwegian*, as between a *Norwegian* and a *Swede*. Their national Song¹, so expressive of patriotic

National Song of the Norwegians.

(1) Nothing can give to a stranger, in Norway, a more powerful claim upon the affections and friendship of the people, than repeating a verse of this Song, or even quoting the two first lines of it, in convivial company, as a toast. We shall, therefore, insert the original in the Norwegian language; together with a free translation of it made by Miss Parsons, preserving, with the tenor of the original, much of its spirit and character, and being adapted to the same air.

> For Norge, Kiempers Föde-land, Vi denne Skaal udtömme, Og, naar vi först faae Blod paa Tand, Vi södt om Friehed drömme; Dog vaagne vi vel op engang,

> Og brÿde Lanker, Baand og Twang. CHORUS.

For Norge, Kiempers Föde-land, Vi denne Skaal udtömme, &c.

En Skaal for Dig, min kiække Ven, Og for de Norske Piger,

Og har Du en, da Skaal for den, Og Skam faae den, som sviger,

Og Skam faae den, som elsker Tvang, Som hader Piger, Viin og Sang. CHORUS.

En Skaal for Dig min kiakke Ven, Og for de Norske Piger, &c.

Og nok en Skaal for Norske Field, For Klipper, Snee og Bakker,

Og Dovres Echo raaber Held, For Skaalen tre Gang takker, Ja tre Gang tre skal alle Field For Norges Sönner brumme Held,

CHORUS. Og nok en Skaal for Norske Field,

For Klipper, Snee og Bakker, &c.

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feeling, and of the longing which all the Nor- CHAP. wegians entertain of an emancipation, was heard

The Same, translated, and adapted to the same Air, by Miss PARSONS.

To Norway, Valour's native sphere, We drink with boundless pleasure; O'er wine, we dream of freedom near; In fancy grasp the treasure: Yet shall we at some period wake, And bonds compulsive nobly break *.

CHORUS.

To Norway, Valour's native sphere, We drink with boundless pleasure, &c.

One glass to Friendship's shrine is due, One to Norwegian beauty ;

Some Nymph, my friend, may claim for you From us this welcome duty ! Curse on that slave, who hugs his chains,

And woman, wine, and song disdains!

One glass, &c. &c. &c.

Now, Norway, we thy mountains boast, Snow, rocks, and countless wonders; Lo! Dovre's† ecto hails the toast, And thrice 'rapt plaudits thunders : Yes, three times three, the hills around Shall "Health to Norway's Sons!" resound. CHORUS. Now, Norway, &c. &c. &c.

• It is almost impossible to translate the two lines of the original as they occur here: they contain an antient figurative expression, which literally might be thus rendered :

> When we "first see the blood upon our teeth," We shall have sweet dreams of liberty.

By which is meant, "When we cut our teeth," i.e. When we emerge from the infant state of knowledge in which our country is involved, or when we become more enlightened;—the sanguinary spirit it seems to breathe being wholly inconsistent with the disposition of the Norwegians of the present day.

+ The mountain called Dovrefield.

with rapture, and resounded in every society, from one extremity of the country to the other; being the oftener sung, because it had been prohibited by the Court of Denmark. In the room under the apartments in which we lodged, an evening club was regularly held; where a large party being always assembled, we used to hear this national air chaunted with a degree of enthusiasm, emphasis, and passion, greater than we ever remembered to have been called forth by the national songs of any country, if we except our sacred anthem, " God save the King." A great number of the inhabitants speak the English language; and, as it is so nearly allied to their own, they learn it with ease and expedition; many words, and even whole sentences, being the same in both. Clubs are common here. The principal people have a large house in which they assemble every evening: it contains rooms for billiards, cards, and supper. Every member is balloted for, before he is admitted. If a stranger arrive, his name, together with the name of the person by whom he is proposed, are placed upon a paper in the club-room; as he cannot be admitted, until a ballot has taken place, and he becomes a member. The games usually played in these clubhouses are, whist, ombre, piquet, chess, and

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billiards: the stake is always low, and there is CHAP. not the smallest tendency to gambling at any of . them. It was owing to these clubs that the Emperor Paul of Russia prohibited all commerce with Trönijem; being under a false persuasion that they were of a political nature, and founded upon French principles of democracy. He would not suffer a Norwegian vessel to enter into any of the ports of his Empire. He was, therefore, almost as much detested by the people of this country as by his own subjects; and his name was never mentioned, but in terms of indignation and ridicule.

Within the last ten years, population and Population and Agriagriculture had wonderfully increased. For- culture. merly, the inhabitants imported corn from other countries, in exchange for the product of their fisheries: now they had almost a sufficiency of corn of their own; and luxuries, rather than food, were becoming articles of importation. The population of the Province of Trionijem was estimated at the average of forty-two persons for each square mile. The province is divided into eight districts, as follow:

Province of Tröniyem.

Number of Persons. Square Miles. Districts. . . 15,087 . 105 . . Nordmöer Romsdale . . 10,295 . . 88 . . 117

Districts. Number of Persons. Square Miles.	Persons on each Mile.
Fossen 11,106 61	182
Dalerne , 26,138 221	119
Nummesdale . 8,114 95	85
Inherred 25,162 497	51
Nordland 53,500 2,082	26
Finmark 5,984 1,244	5

and this estimate proves the average to be accurate, of forty-two persons for each square mile, for the whole province.

In the year 1785, the various towns in the Province of *Trönÿem* contained a population amounting to 9336 persons, and the exclusive territory 154,986. According to accurate observations made in the same year, the population of all the provinces of NORWAY was thus computed:

Province of	Extent in Square Miles.	Number of Persons on each.
Trönÿem . ! .	4,385	. 42
Bergen	669	. 228
Aggerhuus, or Chri	stiania, 1,798	. 197
Christiansands	698	1. 192

By a retrospective view of the state of Norway towards the middle of the last century, it appears that the aggregate of *births*, from the year 1743 to 1756, exceeded the aggregate of *deaths* by 64,003. From 1769 to 1785, the

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increase in the aggregate of *births* amounted to CHAP. 81,610. In the year 1769, the population of all <u>IV.</u> Norway was thus estimated :

Province of	Number of Persons,
Trönÿem	170,722
Bergen	135,352
Aggerhuus , . :	325,043
Christiansands	. 117,024
Total	748 141

In the year 1785, there was found to be an increase, as before stated, of \$1,610. The statement then made was as follows:

Province of		Number of Persons.
Trönÿem	•	. 186,995
Bergen		. 152,599
Aggerhuus		. 355,848
Christiansands .	•	• 134,309
Total		800 751

In the same year', the following estimate was made of the population in the towns of *Norway*: the number of inhabitants in *Iceland* being, at

(1) A French writer, Monsieur Catteau, has given an account of the population of some of the towns of Norway, as it stood in 1769, and by mistake inserted the numbers according to the estimate made in 1785. According

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CHAP. the same time, 46,201; and in the Feroe Isles,

Towns.			Nu	mber of Perso
Bergen		•		13,735
Brugner	•	1	•	2,405
Brevig			172	195
Christiania .		•	18 H	7,496
Christiansaun	•			1,151
Christiansand				3,034
Fridrichshald				3,834
Fredericstad		20		1,375
Holmstrand .				688
Kongsberg .				8,068
Krageroe				941
Langsund .				58
	Sal Phy	1.127		The second strike

According to the same writer, the following was the state of the population in 1799, in the towns here mentioned.

	Towns.								Persons.
	Bergen . c.	•			•	• •		2.5	16,000
	Kongsberg .		1					1.	unknown.
	Christiania .								10,000
	Trönyell, or 1								8,000
	Fridrichshald		黨的	60		÷.,		6.3	5,000
	Christiansand								5,600
ļ	Laurvig .		1.0					Č,	3,000
	Bragnæs .	100					1.6		2,600
	Skeen								2,000
	Fredericstad								1,500
	Moss .								1,200
	Christiansaun								3,000

This estimate, as it is evident, is too much in round numbers, to be accurate. He has stated the population of *Christiania*, in 1769, as only equal to 1,496, which may be an error of the press.—*Voy.* "*Tableau des Etats Danois,*" par Jean-Pierre Catteau, tom. II. p. 109. Paris, 1802.

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Towns.				Nu	mber of Persons
Laurgrig .	•		•		2,424
Molde	•		1		707
Porgrund .			•		192
Skeen			1		1,809 •
Stavanger					2,154
Stromroe .	•				2,034
Tonsberg.			•		1,281
Trönÿem .	en i	•		1	7,478
Oster Risóe	er		1.5		931
Moss			19201-00		1,196
Mandahl .			•		900
	т	otal		-	64,086
Icela	nd				46,201
Fero	e l	sle	s.	2.0	4,754
Section -	Т	ota	ι.	-	115,041

DENMARK supplies *Iceland* with corn, and in return receives wool and fish. We visited a *Dutch* frigate, which at this time was lying at anchor off *Trönÿem*, having lately returned from *Iceland*. The account given to us of the island, by the officers on board, was, that there are several small towns upon the coast, but that the country is wretchedly poor. The peasants, they said, speak and write *Latin* with fluency. They saw a curious *Icelandic* Manuscript in the hands of a Priest, who refused to sell it.

Mr. Thomas Angel, a merchant of Trönigem, died in 1765, and, by his will, proved the

CHAP. IV. Funds for Public Institutions. greatest benefactor the city has yet known. He bequeathed the sum of 300,000 rix-dollars to be appropriated to public works, according to the discretion of the inhabitants. This sum has since been considerably increased, by voluntary contributions. Part of it has been used in erecting a School for the Latin and Greek languages; in defraying the expenses of forming public conduits; in building an Asylum for the Widows of Merchants and other inhabitants; in making improvements in the Asylum for Orphans, and in the public institutions for the poor. 'There is an Hospital for the Old and Infirm; and a House of Industry, where any person may find employment, and receive an adequate price for his labour. In the House of Industry, also, a certain number of young persons are instructed in weaving and in making stockings, and are paid a dollar a week. The House of Industry costs annually about 800 or 1000 dollars. No persons are admitted into the Hospital for the Old and Infirm until they have worked, or at least tried to work, in the House of Industry for two years. All whom we saw in the latter were employed in spinning, weaving, and making stockings; and most of the old women in the Hospital were spinning. The number of poor in Tröngem has, however,

greatly increased, in consequence of these bene- CHAP. volent establishments; although they be well inspected, and great care has been taken not to admit any but real objects of charity into the Hospital. The population of Trönijem now amounted to ten thousand persons; and of this number, twelve hundred received assistance from the charitable funds. The dress of the poor in the Hospital was neater than in our English poor-houses. We saw also a kind of House of Correction, where persons who had committed small offences were confined, and compelled to labour. This house had been only established half-a-year; and it was not expected to answer, as the inmates, being crowded together in the same room, corrupted one another. It was in agitation to adopt some The prison at Philadelphia was better plan. mentioned as an excellent institution. In all the parishes, voluntary contributions are made for the maintenance of the poor: every person declares what sum he is willing to contribute yearly; and the funds are managed by persons expressly nominated for the purpose, something after the plan adopted for the management of the poor in Scotland.'

'Within the last ten years, the 'common people have made great use of potatoes: many

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grounds about the town are planted with them, and with the cabbage turnip, which here attains unusual size and perfection. Wheat is never sown, nor much rye; but barley and oats thrive very well. Grass is cut for hay in the middle of July: the environs of Trönijem produce very fine crops, and, at the same time, the barley is in full ear. Rye is the chief corn imported; but the most common article of food among the peasants is the oaten cake. Enough is generally grown in the country for its consumption; and, as was before stated, it is seldom necessary to import much, either of barley or cats. The barley, when imported, comes from England and Scotland: the rye, from the Ballic. When there is a plentiful year in Scotland, much oatmeal is imported; which is highly valued, and bought up with avidity. Apples ripen here; but not apricots, which succeed tolerably well at Christiania. Upon the whole, there is not that difference of climate which might be expected between the two places; perhaps owing to the greater proximity of Trönyem to the sea. The bay of Trönigem never freezes. The cold is not nearly so great here as at Röråås, which lies more to the south. It should have been before stated, that during the last winter at Röråås, the mercury in the thermometer and barometer froze

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