## Domestic Manufactures, &c.

NOTES ON WOOL, ON BLANKETS AND KERSETS.

There is good reason to believe, that twelve millions of pounds weight of sheep's wool were wrought in the year 1810, into goods which are usually fulled, within the United States. The unfulled goods were also considerable in amount—Our increase in sheep and wool is manifest and steady. Our intelligence and skill, in the woolen branch, from the breeding and care of sheep to the finishing of woolen and worsted goods, is constantly extended. Yet the business requires much im-

It is proposed to offer to the planters, farmers, manufacturers and capitalists of the United States, some details of the woolen branch, which it may not

have been within their power to obtain. Two of the most useful articles of woolen manufacture are the plain man's tweeled blanker, called the three point blanket, and the plain man's tweel-

ed kersey, or narrow cloth. The three point blanket is made well, when it

is three pounds and one quarter or three pounds and one half in weight; in width one yard and one half; and in length two yards. It has a broad blue or dark stripe near to each end, and in one corner are three blue marks, woven in, of the length and breadth of a long slender finger. These are the points, which give the name or distinction to the blanket. The European blankets have been too often made as low in weight as two pounds and one half, and without the tweel, within the last four or five years, and yet they have been shipt from Europe under the invoice name of three point blankets. This deception greatly injures the buyer, and the

consumer or wearer. The three point blankets are of the utmost im-

portance to military supply by land and by sea; in the hospitals, the garrisons and the field; as also on the ocean. They are of importance in the Indian commerce and intercourse: and are strong family These three point blankets are made in England at

the whole sale cash price of seven shillings sterling for each blanket weighing three pounds and one half, when the business is well done, and when payment is made in gold or silver. The proper wool is that of the heavy fleeced breed, called the Lincolnshire breed, though the wool of the breeds raised on the rich drained swamps, marches or fens throughout England is also employed. It is to be remem-

<sup>\*</sup> See a note to page 462 vol. I. WEEKLY RE-

hered that the average weight of the fleece of the full good tweeled blanketing well raised and regularly blooded Lincolnshire breed, raised within that county, is considered to be ten pounds. The price there Irab. for this wool is eight and one half to nine pence sterling, equal to sixteen or sixteen and one half cents.

The wool which will card will do for blankets. The rest is combed. The weight of the carcase of the sheep of that breed, fed on the rich reclaimed fens of Lincolnshire is proportionally heavy.

This wool has another peculiar value. Much of it will do for the hand comb or for the combing machine, and may be wrought into worsted stuffs, such as shalloons, rattinets, durants, camblets, bombazettes, moreens, worsted damasks, joans, spinnings, wildbores, callimancoes, and worsted hosiery, and into worsted chain or warp for woolen west or fillings, by which Great Britain obtains a vast contribution from all countries. But to return to the important article of woolen blankets, which is made through holes in places formed as follows: in the short part of the long wooled fleeces.

on the legs and other particular places, leaving the the smallest. soft fine shorter wool for good coat cloths, and cas-

It is well worthy of remembrance that the English to card long combing wool.

tion requires the careful attention and utmost exer-mer. tions of our manufacturers and fullers, for their pains

chain. It should only be twisted so as to enable struction will be obtained.

The flushings or lion skins for great coats are made elastic wire. in the same way, and indeed are nothing more than. The nippers reduce it to say 1-8 inch dismeter

on the upper side and dyed blue, brown, olive or

The kersey will be in the subject of another note being also very important to the industrious and the military portion of our citizens, and to the cultivators, manufacturers, and capitalists.

## THE PROCESS OF MAKING IRON WIRE.

The best tough softiron, such as will weld round, s drawn into rods by smiths, using charcoal fires, and taking welding heats every time, the rod is about 1-4 inch diameter, 9 or 10 feet long, containing albs. each, tapered at each end to a long point; they are first anealed by being brought to a bright red heat, in a furnace excluding the air as much as possible, for if the air can be entirely excluded, no scab will rise in anealing; then these rods are drawn

A bar of iron 24 inches long, 2 inches broad, 11-4 It is indispensibly necessary to the right manu-inches thick, is faced on one side with good steel, facture of a well knapt or coated point blanket, 3-8 inch thick, and punched with taper holes from that the longest wool be selected. In America, the iron side, the largest hole just sufficient for the where we have not yet many distinct breeds of sheep, rods to pass through and take the hammer marks and fewer of the coarse and heavy fleeced English off, each hole a small degree less, until they diminbreeds, it is necessary to cull for these blanks the ish to the finest wire, six or eight plates will conlongest wool we can find in parts of the fleeces, and tain the whole series of holes from the largest to

The holes are punched in the plates by a set of This will contribute to render our blan-punches, nade of best steel, beginning the hole ket wool cheaper, as the fine wool, when separat- with the largest first, then lesser in succession to ed, will command a better price either in the wool aper the hole gradually, until it pass through of the or in the goods made of it. This manner of sorting size wanted, a dexterous hand can punch the holes wool will redound much to the profit of the manu-down to 1-64 of inch diameter, smaller can be dr.lled.

The plates are rounded on the steel side, and the actually and regularly chop their wool when it is holes 1-4 inch assunder in a direct line in the midtoo long, to enable them to get up a rich coat of dle, and the holes are regulated with a hammer poinpile upon their point blankets, and to enable them ted like an egg, to beat and close them as they wear too large, or lose their proper taper or s ze in the The English clean and raise their blankets, and graduated series: after being closed by hammering other coarse woollens in the fulling mill, both by round them, a smooth punch or the right taper is soap and fuller's earth, a soapy clay. They raise and driven in to smooth and form them; this punch is thicken their blankets, in a great degree, by the ful-ling mill, and then still more by the card. They from the back; hammers are also used to clean out give a moderate coat to the inside; and a full rich and smooth the holes; these plates may be a little coat of pile to the outside; making them very thick tempered by fire and water, but not so much as to so as to fill the hand when grasped. This opera-make them brittle, or they will not bear the ham-

The rods are at the beginning drawn through the and skill should be much the greater, because our holes by a pair of nippers fastened to a glide, set so as coarsest wool (taken by the fleece) is too fine, soft to vibrate horizontally about two feet or more set in and short for blankets.

To obtain a good thickness to blankets, to make them easy and safe to card up into a moderate coat on the lower side and a rich coat on the upper side, it is absolutely necessary that even the chain or warp be not too hard twisted; and that the weft or filling be not so much twisted as the warp or the reach it, and they close on the wire and draw it through the hole, say two feet at a pull.

The rode may be reduced from 1.2 inch to compare the motion by a crank and heavy fly wheel drove by water, or any other power, equal to the power of two or three horses: these nippers open as they push up the plate, and shut as they draw back. The reach it, and they close on the wire and draw it through the hole, say two feet at a pull.

The rods may be reduced from 1-3 inch to say the weavers to work it. It is in managing those 816, when the wire will require to be anealed: it points well and in not driving the web too hard up may then be reduced to say 1-3 inch, when it must in the loom, and not making the web too close and be anealed again, and if the iron be good it will now tight, that the first foundations of a good blanket be ready for the cylinders and may be drawn to the The fuller must not omit to do his part, fineness suitable for wool and cotton cards. using his judicious endeavors to thicken the blanket, hardens too much it must be left for coarser purpoand to prepare it to yield enough of its pile easily ses, for if anealed again it will not barden sufficient to the card: moderately on the lower side, but con-ly by drawing to become sufficiently elastic for cards. siderably on the upper side. By loosening a dozen The workmen must discove: the quality of the yarns of chain and filling of a point blanket, in iron, and by experience learn the smallest size at which it will bear its last anealing, to make good

it then passes to cylinder which is set perpendicular, to revolve by a spindle like a millstone, so fixed that it can by a treadel be slipped in or out of geer by the foot instantly. The hank of wire is put on a reel, and the end

drawn through the plate, say two feet; it is then fastened to the cylinder, which is set in motion by the treadel, and the cylinder, by a proper motion, draws at through. The instant it is through the cy-

linder is stopped, and wire wound back again on the reel, and is ready to be put through the next smaller hole, the workman points the wire with a file to make it enter the holes as they are lessened, and a cloth dipped in merced tallow is always laid on the wire behind the plate, to grease it to make it slip the

more easily through the holes. This is the process used by the writer when a boy during the American revolution, and so easy was it attained that without any regular instructions from experienced artists, but from only what he could hear from persons who had transiently seen the operation, he so far succeeded as to make as good iron wire as ever was imported, and to work it into as good wool and cotton cards, of which he made thousands of pairs; so that he can from experience say, that the American iron will make good wire, and he has no doubt of the success of the manufacture, if attempted with perseverance, and supported by a protecting duty on the importation of the article.—O. E. [Aurora.]

SALT WORKS.

## By a gentleman from the Genessee country, we are informed that last summer, at a salt works, in

Galen township, Cayuga county, and state of New-York, the owner had an idea that by digging, he might perhaps arrive at the salt rock; accordingly he employed a hand to try the experiment, who went down about 60 or 70 feet, when to his great satisfaction, he came to the bed of salt, and broke off a small piece, but the water broke in upon him so fast, that he had to call for assistance to get out, and had only time to bring one of his tools with him, and a small piece of salt, which was clear like a piece of allum, the water rose to the surface and ran over; they then built a wall of stone and lime round it, 4 feet high, so close as to hold water; they have a number of kettles, or salt pans, con-

stantly boiling, but still they are unable to use it as fast as it rises; the water is so strong that as it scatters over the ground, it chrystallizes with the heat of the sun in the hot weather. [Cumberland Register.

PLAISTER OF PARIS.

On the east side of the Cayuga lake, about a mile from it, they have found a large bank of Plaister of Paris, from which they are carrying it along the lake to where the turnpike from the Susquehanna joins it, from whence it is carried to that river in waggons, or in the winter by sleighs, as it

is but thirty three miles distant, and from that place it can be brought down the river to any place of deposit in boats; the price is five dollars per ton at

the quarry. There has also a bed of plaister been found on the west side of the lake, of which a Mr.

Rittenhouse is one of the proprietors.