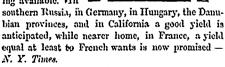
Wheat in Great Britain.

Mr. H. Kains Jackson, in a long report in the English papers on the coming harvest, gives some significant figures and remarks. He says that the en en years' average import of wheat into the United Kingdom was about 8,000,000 quarters, following on the preceding seven years' average of 5,000,000 quarters (A quarter is eight bushels.) Yet in 1572 I we have hal to jump from those \$,000,000 average up to 12,000,000, as the bulk required, and this leat has been accomplished without, so to speak, raising of producing great traction force. By carefully studyvalue a single penny The average price of the seven

week's average for English wheat in London is only 56a Sd., from which level quotations have fluctuated but slightly since last harvest Moreover, judging from the past three years, viz., 1870, when we imported of wheat and flour 3,000,000 quarters; 1871, when it was 9,750, 000 quarters; and

1872, when it was 10,500,000 quarters, the country annually needs, as a matter of course, about 10,000,000 quarters to supply its normal wants. These figures also lead to the conclusion that even this large requirement may steadily mercase with our population, without value advancing to any appreciable extent. This year's large purchases of England have, it may be said, swept clear the barn-stock of farmers and the warehouses of corn merchants, but so also did equally the smaller purchases of 1867-8, when an early harvest came upon stocks so low that a late

harvest in 1868 would have been a calamity. In many respects the coming harvest in Europe and America decidedly promises fully an ordinary yield. Algerian wheat, already in Paris, is heralding new harvest supplies, which Egypt, Spain, and Italy a will now be making available. In



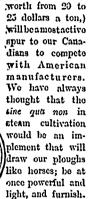
Prof. Johnson recommends for fertilizing purposes to mix one bushel of salt and two bushels of dry lime under cover, and allow the mixture to decompose gradually, thus forming chemical union. For this purpose the mixture should be made nine weeks before use, or still better, two or three months, the heap being turned over occasionally. This salt and line mixture, when applied at the rate of 20 or 30 cm. bushels per acre, forms an excellent top-dressing for many crops. It acts powerfully on the vegetable matter of soils; 56 bushels applied to turnips have produced as large a crop as barn-yard manure. It is destructive to grubs and insects in the soil. Like salt it attracts moisture from the air, and is useful again t drought. Its decomposing power is remarkable, and if three or four bushels of it are mixed with a load of muck, the latter will be thus thoroughly powdered .-Boston Cultivator.

Agricultural Emplements.

Parvin's Steam Motor.

We are in receipt of the accompanying displayed cuts of a so-called " Steam Motor, lately invented and patented by P. C. Parvin, of Farmington, Ill., who has obliguigly sent them to us for publication. At first sight it is somewhat diment for a casual observer to understand the peculiarities of this most novel mode ing the annexed illustrations it will be observed that years ending in 1867 was 578, 10d., and our the the propelling parts of the Motor are somewhat

leading manufacturers in England, we have no doubt his views, as expressed in another column, will neet with the attention the subject deserves. Whilst doing all in our power to promote the publicity of this important invention, we must at the same time remind Mr. Parvin that his implement is thus exposed to severe criticism, and that our Canadian manufacturers will do all that active hands and energet.c minds can do, to improve on it or construct a better. Fair competition is no doubt all he deserves, and such he certainly will have under the existing patent law. In all such cases, the best machine ever made is capable of great improvements, and the high price of labor, and cost of maintaining horse-powers (with hay





wheels working within these feet, and the entire weight of the back part of the machine is thus brought to bear on these fect or boards. Into these large wheels very much smaller ones are geared, and these latter are attached to the engine shait, so arranged that they can be draven backwards or forwards, or thrown out of gear altogether when from any cause the engine is required to work and the carriage remains stationary, and without moving these feet. When employed in full work, as the engine revolves, the surface of these fect being very large, prevents the possibility of slipping, thus ensuring the movement of the machine forward. There is also another great advantage in the large surface so exposed to the

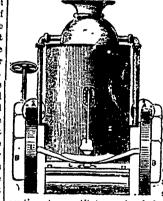
tractive force, which effectually prevents the Motor Son paragram One of our sinking in staff natinspected chine, and guine the has at last seen and this mafeels san-المناسخة المناسخة

first step? been made in the right direction, and that we shall soon see the farm locomotive travelling over our Canadian fields drawing half a dozen ploughs after it, and the whole arrangement divested of the mass of ropes, anchors, pulleys and engines (one at each end), now generally used in ploughing by steam. Mr. Parvin well deserves the thanks of the agricultural community, and we trust he will find his invention a success, and be handsomely remunerated for all his outlay. It is claimed for the "Steam Motor" that it will "break prairie" as well as do ordinary ploughing, and that the cost of so doing will not exceed one-bal' that of ordinary horse or ox-power now in use We hope some enterprising manufacturer will place himself in communication with the present proprietor and endeavor to supply our farmers with a Canadian manufactured article. Some observations on the general subject of steam-ploughing and the use of the locomotive on the farm, will be found in our Editorial Department.

We have submitted the accompanying cuts and description to our mechanical engineer, who has been requested to comment thereon, and as he has given some years' attention to the subject of steam plough-

Smith & Dixon's Harvester Guards.

These gnards or fingers, for mowing and reaping machines, are made by stamping in dies from steel plates of uniform thickness, thus making them half hollow, so that great strength is obtained by the use of a small weight of metal. We have given these guards a trial this season in cutting many acres of grass, and find them work well. Attached to one of



the newly constructed Cayuga Chief mowers, they moved through dense and wet grass in a very satisfactory manner, and wenever saw better work in a meadow. The edges of guards cannot become rounded down by wearing as in those made solid, but must

continue to constitute a pair of close-cutting shears with the knives. These guards are manufactured by Smith & Dixon, of Port Byron, N. Y., and, judging from one season's trial, we think they must supersedo the solid guards .- Country Gentleman.

To Clean a Rusty Plough.

Take a quart of water and pour slowly into half a pint of sulphuric acid. The mixture will become quite warm from chemical action, and this is the reason why the acid should be poured slowly into the water rather than the water into the acid, and let it remain on the iron until it evaporates. Then wash it again. The object is to give the acid time to dissolve the rust. Then wash with water and you will see where the worst spots are. Apply some more acid and rub on those spots with a brick. The acid and the scouring will remove most of the rust. some years' attention to the subject of steam ploughall the acid, and rub it dry. Brush it over with rg, and been in communication with most of the petroleum or other oil and let it be till spring.—Ex.