

firm also shows a very ingenious Belgian manure and seed dropper, worthy of the notice of gardeners and small farmers' under spade husbandry, while for large farms they would be useful for blanks and headlands.

Signor Carlo Minasi, Brecknock-place, Camden-road, also shows his patent hydre-incubator on their stands, which possesses the highest degree of merit. Clucking hens have always been experienced as an eternal annoyance about every farming establishment, and as it is said that "three dips in the dam will make a clucking hen lay again," we wish Signor Minasi every success at our Christmas Meeting, for both pleasure and profit in the management of poultry are obviously greatly in his favour.

Clayton, Shuttleworth and Co., Lincoln, have long occupied a very enviable position in agricultural mechanics; more especially as to portable and fixed engines; and on the present occasion fully maintain their ground. Below stairs they exhibit a portable engine with combined thrashing and dressing-machine, and upstairs a fixed engine, a saw-table, chaff and turnip-cutters, and corn and linseed-crushers. All these things exemplify in the most satisfactory manner the high degree of perfection to which this firm has attained in the manufacture of heavy machinery of every kind, justly meriting that honourable and marked esteem which it has always received of the agricultural world.

W. P. Stantley, Peterborough, exhibits two sets of steaming apparatus, for which he has justly acquired pre-eminent distinction. The proper cooking of food for stock is a question second to none in agriculture, and this firm has done much to solve it. He also shows compound steel mills and corn bruisers of high merit.

W. Busby, Bedale, Yorks, shows his far-famed prize ploughs and carts, as also drill horse hoes. These are articles of the highest merit and most deserved celebrity.

Richard Read, 35, Regent circus, London, exhibits bullock-pumpkins and garden-syringes of various kinds; they are both of the best quality and description, and are indispensable articles to farmers and gardeners.

J. A. Williams, Baydon, Hungerford, shows his "Patent self-holding lever-plough and cultivator." It has long been a cherished desideratum among ploughmen to get a plough to go of itself without holding, and our Christmas exhibition of this year bids fair to solve the problem by Mr. William's trifurrow plough, which goes on three wheels, requiring no one to hold it. Each of the three ploughs has a lever for regulating the depth of the furrows, with the necessary contrivances for fixing their breadth. We do not much admire the ploughs, but they are moveable for the grubbers or cultivators, of which there are four, with an additional lever; hence a Howard, a Ransome, or a Busby plough may easily be substituted, which silences this objection. The machine is adapted for steam or horse power, and obviously prognosticates a new state of things; but experience in the field, of which we have none, is absolutely necessary before judgment can be safely awarded as to merit; at the same

time we may observe that, from experiments made, the patentee is sanguine as to results; for ploughing in seed in soils liable to "spew out the young plants," it may prove "a great affair," as he thinks it will.

Robert Hunt, Fair's-Colne, Essex, exhibits his "Improved engine for drawing clover," with a dressing-machine combined; thus delivering the cloverseed ready for market.

James Dobbs, 7, New Orchard-street, Bath, an excellent spirit level, with stand and staff.

R. H. Nichols, St. John's Eedford, exhibits his patent universal horse-hoe, which has several mechanical advantages in its favour—as the easy mode of steerage when the corn drills are crooked, and the regulating of the depth of the hoes in going over an uneven surface.

F. Phillips, Hall-farm, Brandon, Suffolk, exhibits his Lincoln prize patent root pulper. The reduction of roots to a pulp for the mixing with ground corn and chaff, is a proposition which has very justly met with general approbation, and the machines are among the best pulpers manufactured.

Taxford & Sons, Boston, exhibit their prize fixed and portable engines, and a combined thrashing and dressing machine—articles for the manufacture of which this firm has long been justly famed. In construction and manufacture their portable engine develops the highest degree of mechanical skill and workmanship, in evidence of which we have only to mention that it has been selected by the Governments of France and Prussia for the Museums of Art and Agriculture of those two empires, and by our own Government in her Majesty's dockyards. The incasing of the working machinery, or parts at the end of the boiler, under the immediate eye of the engineer, is universally admired. Similar characteristics of usefulness and durability recommend their fixed engines and thrashing machines.

William Williams, Bedford, exhibits his celebrated pipe machine, which has procured no less for himself than purchasers, so much satisfaction in many a yard. Independent of all the new machines which have from time to time appeared, it still maintains its popularity wherever introduced.

E. H. Bentall, Heybridge, Maldon, shows one of his prize patent broad-share and subsoil ploughs, a powerful instrument in loosening soils.

Wm. Cowley, Newport, Pagnell, Bucks, exhibits his improved tipping-cart, with vulcanized India-rubber springs, and horse hames, which have both been much admired.

McNeil & Co., of Bunnhill-row, London, exhibit samples of their patent asphalted felt for the roofing and ceiling of houses; for putting under slates so as to exclude frost in winter and heat in summer. For these and other similar purposes this felt has now acquired a lasting fame.

James Burton, 370 Oxford street, exhibits his "patent stable fittings," plain, enamelled, and galvanized; hay-boxes, mangers, and water-troughs. His improved enamelled fittings, and