

BAG FILLER.

We remarked an excellent invention for holding a grain bag open while being filled. It is a steel hook attached to an iron arm that can be raised or depressed to suit any bag; the hoop holds the mouth of the bag open, and is quickly adjusted we afford a cut of it. J. JAMES, Forest, Ontario, is the patentee.

A. HARRIS, Son & Co., Manufacturers, Brantford, Ont., exhibited some excellent specimens of *mowing and reaping machines*. Their combined mower and reaper passes over all obstructions without injury to the machine and is well adapted for rough land. This machine has taken prizes at many exhibitions. The *New Kirby* is worthy of special mention.

SEWING MACHINES.

Of these indispensable domestic and manufacturing necessities there were several exhibited, but for some reason we did not hear explained, no prizes were offered. We particularly noticed the excellence of the following: "American Singer Sewing Machine." "The Williams Manufacturing Co." "The Gardner's Sewing Machine." "The Reice Sewing Machine." "The Wheeler & Wilson's Manufacturing Co. Machines and others, but where all were so busily at work, and all worked so well, it was a difficult matter to give a decided preference to any one machine.

SEWING MACHINE NEEDLES.

MR. HARVEY E. MOLE, exhibited the finest needles, they were of all sizes and of great fineness, smoothness, and temper.

THE SEWING & MACHINE NEEDLES CO., exhibited by H. E. MOLE, received an extra first prize.

PRINTING PRESSES.

G. L. COLLENDER & SON, Port Hope, exhibited in this line the *Pearl Printing Press* for which they are agents and of which we give an illustration.

LEAD PIPES, SHOT, PAINTS, &c.

Under this head, MR. JAS. ROBERTSON also had a great display. MR. ROBERTSON ranks, amongst our most enterprising manufacturers, all his goods are manufactured in Montreal and are noted for their excellence. They formed quite a striking group, the arrangement of which was conducted by MR. McPHAIL.

RAILROAD COUPLINGS.

Exhibited by Colonel CHATTERTON, of Colbourg. We cannot do better than quote the remarks of the *Ottawa Free Press* on this patent method of coupling cars, adding our own conviction of the merits of such a patent car. Had it been in general use the sad accident at Sorel last month, by which 10 men were killed and twenty wounded could not have happened, as the shock would have been so gradually resisted that the cars would not have been capsized or thrown off the track.

"Colonel CHATTERTON, does not occupy much space with his goods, but nevertheless he has an invention which may, at no distant day, revolutionize matters on railways, and be the means of saving thousands of lives. We here refer to what he calls the "collision draw bar." It is a very simple but very ingenious construction, and is so arranged with levers and springs, that in case of the collision of two trains, no serious consequences may result. It is fixed in the coupling bar, and is said to possess a spring resistance of one hundred and fifty tons. Certainly if the Colonel's invention is equal to all that is claimed for it, the sooner it is introduced on every railroad the better. Colonel CHATTERTON also exhibits a *patent car coupler*, which is a simple and manifestly excellent improvement. It is now in use on the Colbourg and Peterboro Railroad, and works admirably. It has only to be adjusted so that when the car is backed up against the one with which it is intended to connect the coupling takes place of its own accord. The Colonel's inventions are very valuable ones."

FIRE AND BURGLAR PROOF SHUTTERS.

MR. GEORGE CAMPBELL of Toronto, exhibited *fire and burglar proof shutters*. The patent was issued last year. They are made

entirely of iron, and can easily be opened and shut from inside the building without the necessity of opening a window.

Iron revolving shutters are coming very much into use in England, but these are made somewhat similar to our ordinary shutters. The iron slats clasp over each other making them also rain proof.

CARRIAGES.

In this Department there was a very fine display of vehicles of every description finished in that superior style for which Canadian Carriage Manufacturers have gained renown, the following we particularly noticed.

Phaeton, by W. GREY, of Chatham, gold mounted, basket body lined with light colored morrocco, also some superior buggies.

Phaeton, by D. AUCLAND, of Almonte, richly but plainly finished, a serviceable piece of workmanship.

Phaeton, by C. & J. GRAHAM, of Lyon, a three spring phaeton strong and serviceable, workmanship very superior.

Children's Carriages, TRUDELL, of Montreal, of numerous designs and got up with much care and attention to the comfort of both nurses and children.

Phaeton, by DUHAMEL, of Ottawa, exhibited among carriages a very handsome pony phaeton lined with rich blue satin, also a double seated covered buggy with top lined with rich piece colored cloth.

Hack Carriage, by P. BUCKLEY, of Ottawa, had on show a remarkably fine Hack Carriage, made in the best manner, also a very superior double Sleigh.

Market Wagon, by G. BROWN, of Kingston, a very superior article. He also exhibited several sets of patent wheels very light but strong, similar to American wheels, if an accident happens to a spoke it can be taken out and replaced without disturbing the tire.

Phaetons, MR. COGHILL, of Toronto, exhibited two phaetons of very superior workmanship, tastefully got up and neat in appearance.

J. B. ARMSTRONG & Co., Guelph. This firm had quite a large display of vehicles all well got up and evidently made for work. Among other vehicles we noticed a very neat racing buggy which weighed only 155 lbs. He also exhibited some fine specimens of steel carriages.

S. & F. TURNER, of London, Ont., exhibited two open *Diamond Phaetons* of a very elegant design, also two *Basket Phaetons* with a handsome silk lined umbrella top. He also exhibited two excellent pleasure *Carriages*.

The McGLORY, THOMPSON CARRIAGE COMPANY, of London, had a great number of vehicles on the ground a *Landau* and *Landauette* combined, a *Landau Carriage*, a handsome *English Brett*, a family carriage, *Phaetons*, *Buggies* and a trotting *Sulky* and *Waggons*, also *Strips*, and several sets of very fine wheels, all his vehicles were of superior workmanship.

BROWN & ST. CHARLES, of Belleville, showed two *Park Phaetons* and a *Single Cutter* beautifully finished.

H. A. MANDERSON, of Baradventure. A *sleigh and wagg* which by a very simple contrivance can be raised from the ground and placed upon wheels, useful for travelling during the commencement of winter on the breaking of the snow on spring.

MR. MORGAN, of Uxbridge, Ontario, exhibited a *pleasure sleigh*, furnished with *Conroy's patent turn-down seat*, by which it can be converted into a single or double seated sleigh at pleasure.

ALBERT SMITH, of London, Ontario. A collection of *fish wheels and carriage furnishing*.

TITES, of Ottawa, exhibited over twenty vehicles among which we noticed a handsome *black carriage* lined with maroon leather and finished with heavy gold mounting, a *family barouche*, a *dog cart*, *phaeton*, two *buggies*, besides other vehicles and sleighs, all constructed for durability and of fine finish.

S. & H. BORRIDGE, of Ottawa, exhibited a fine display of *harness*; we do not pretend to be a judge of these articles, but heard them much admired.