

steam engine, double edging machine, sawing machinery, and a quantity of castings. The Brantford Engine Works were represented on the grounds by one of their famous portable engines and saw mills, which were in operation some day during the fair. Charles Levy & Co., of Toronto, showed some planing machinery. Sweet, Barnes & Co., of Syracuse, N. Y., showed a very handsome lot of mowing and reaping machine knives and sections.

Tuttle, Date & Rodden, of the Welland Yale Works showed a most magnificent assortment of field, barn and garden implements, carpenters' and builders' tools, etc. It is not many years since all these articles had to be imported, but now in several parts of Canada there are factories where first-class articles are made. Those shown by Messrs. Tuttle, Date & Rodden cannot be excelled either in quality or finish by any establishment in the United States or elsewhere. From St. Catharines, too, came a large assortment of circular, cross-cut and other saws, shown by J. Flint, who claims for his manufactures superiority over all others both in quality of steel and excellency of finish. He certainly shows some splendid looking pieces of workmanship. The Canada File Works, of Montreal, displayed a large assortment of files of various sizes, shapes and patterns, and said to be very superior articles.

Entering the Palace from the east the first thing that attracted attention was a number of steel amalgam bells, manufactured by Messrs. Jones & Co., of Markham. These bells are already very widely and favorably known, some six hundred of them having been put in use within the past eight or nine years. These bells cost only, about one third the price of the ordinary bells, and are said to be less liable to break with either frost or hard usage.

Directly in front of this entrance was to be seen a lot of carriage makers' requisites and a few carriages. The display in this line was very small this year, though the specimens shown were really good.

There was room however for disappointment at the fewness of the entries. Among the carriage makers' requisites, were a lot of machine made carriage spokes and hubs, exhibited by John Hurd, of Lambeth. Next in order appeared a splendidly finished lot of wrought iron and steel carriage axles, and an assortment of carriage and car springs. We saw one of those springs placed under the test and were satisfied that better satisfaction could not be given. The axles are manufactured at Gananoque, by Messrs. Byers and Matthews, and the springs at the same place by Messrs. Byers and Penn. Among the car springs were some intended for the Toronto, Grey & Bruce and Northern Railways.

Next in order was Patterson's Patent Tire Coupling, by which the use of bolts through the tires of carriage wheels is entirely dispensed with, and the tire can be adjusted to the wheel in a few minutes, saving blacksmith's bills every time the tire becomes loose by reason of the shrinkage of the wheel. Shown by Peter Patterson & Son, Toronto.

In carriages the display was very good. Among them was a lot of four carriages shown by Messrs. J. B. Armstrong & Co., of Guelph, which reflect great credit on their skill and enterprise. Besides this lot, Thomas McBeth, of Richmond Hill, exhibited a skeleton trotting wagon, to which is attached a patent arrangement, by which pole or shaft may be attached without trouble or loss of time. J. Haggaman, of Oakville, showed two carriages with a pa-

tent gearing. The feature in these carriages is that there is no axles, no boxes in the hubs, and no taking off of wheels to oil the vehicle. Hutchison & Burns, of Toronto, showed two very handsome buggies, one covered and the other open. J. & E. Spragge, of Amherstburg, had on exhibition a couple of splendid buggies, one open and the other covered. Geo. Smith, of St. Catharines, showed a magnificent pleasure carriage, a covered buggy and a trotting wagon, all got up in superb style. Noah L. Pi, er & Sons, of Toronto, had on exhibition some beautiful children's carriages.

Coming to the machinery again, the first thing we noticed was an iron manipulator, exhibited by A. J. Whalley, of Markham, the uses of which, as its name seems to indicate, are multitudinous.

Eyre Thuresson, of Ancaster, exhibited two card clothing setting machines, and card clothing. Mr. Thuresson has made a speciality of this business for years, and the card clothing which he turns out has long been acknowledged as the best procurable either in this country, or in Europe. One of the machines was in operation and attracted a great deal of attention. The machines are made by Mr. Thuresson himself, one of them after the English and the other after the American pattern. Littler, Maw & Co., of Dundas, had on exhibition a fourteen feet screw cutting machine and a large wood shaving machine. Paxton, Tait & Co., of Port Perry, exhibited a Leslie double turbine water wheel, claimed to be the best turbine water wheel made. George Clark, of St. Catharines, showed a wheat separator for mill purposes, also an improved bolt feeder. He claims for the separator that it will separate wheat from the other grains where they have been mixed, and remove from them all chaff and dirt.

In addition to the saws already noticed there was a large display in this line made by James Robertson, of the Canada Saw Works of Montreal, and the Dominion Saw Works of Toronto; also by Messrs. Morland, Watson & Co., of the celebrated Montreal Saw Works. In both of these lots were circular saws with Pike's patent teeth. Messrs. Whiting & Cowan, of Oshawa, showed a splendid lot of field, barn and garden implements, finished in a manner that few imagine steel susceptible of.

Passing further on towards the centre of the Palace, our attention was drawn to a large show case filled with lamps of various kinds, by John Boxall, of Toronto. In the collection were railway signal, switch and car lamps, hall lamps, carriage lamps, etc., all of superior make. Beside them Parson Brothers, also of Toronto, showed a full assortment of coal oil lamps. On the same stand with these W. R. Manger, of Toronto, had an excellent display of japanned tin ware.

Passing further on attention is claimed by a jeweller's elaborate show case, filled with a most expensive and beautiful variety of jewellery, watches, silverware and other goods of the kind, shown by Messrs. G. J. Joseph & Co., Toronto, who manufacture nearly all their stock themselves. In the collection we noticed a handsome lot of Masonic and other regalia, emblems, jewels, &c. Opposite this was the show case of Messrs. Russell and Son, of London, England, filled with a large lot of their celebrated watches, in great variety of style, pattern and material. In the collection was a very handsome gold ring with a chronometer in the top of it. This