

C. Bruce, Guelph, a well braced cultivator, with wooden frame and iron levers. A rather curious tool appeared in this class, "J. K. Griffin's Universal Soiler," shown by D. Paulin & Co., Woodstock. It is all iron except the tongue, and is either a cultivator, a gang plough, or a scraper, according as teeth, plough-shares, or a scoop are attached to the frame. It was originally designed as a street-cleaner and road-leveller: work which it is said to do to perfection. The scoop will carry dirt or manure, loading and unloading itself with great facility. It is changed with great facility from a cultivator to a plough, and from a plough to a scraper, and *vice versa*. A number of one-horse cultivators and hoes were to be seen. J. Stacey, St. Thomas, had one with small teeth and all iron. H. Collard, Gananoque, and R. Kimmman, Goderich, showed rather heavy ones. J. Westcott, Bowmanville, had one that seems light and good, while Parcy & Sons, London, J. Watson, Ayr, and E. Ritchey, Salem, showed some that look capable of stirring the soil and tearing out weeds very effectively. A varied collection of harrows was to be seen. Iron ones were shown by John Morrison, Ballymott; G. McInnes, Fergus; R. Kimmman, Goderich, (a zig-zag harrow); H. Collard, Gananoque; W. Robson, Telfer; George Prentice, Columbus, (a diamond-shaped harrow); R. Ramsey, Brooklyn; W. Alexander Falkirk, (a curvilinear harrow); and George Bryce, Mohawk. Harrows with wooden frames were exhibited by A. Anderson, London, (a jointed one of peculiar construction); Parcy & Sons, London, (an A shaped harrow); E. W. Rodwell, Queenston, (one that turns with remarkable ease); Geo. McInnes, Fergus, (a triple harrow); and Mr. Bruce, Guelph, (similar to last-named). Only two field rollers were on the ground, one a very ordinary double roller by J. G. "Shoeb" at Bryanston, and the other a triple one, two rollers ahead, and a central roller following in the wake, by E. H. Cooper, London. A pretty hand lawn-roller (of iron) was exhibited by H. N. Massey, Newcastle. Four grain drills were shown: one with nine spouts, introduced by the late lamented Joseph Hall, of Oshawa, and shown by his executor, F. W. Glen, another with ten spouts and grass seed attachment, by Maxwell & Whitlaw, Paris; a third by Scott & Houghton, Dundas, with eight spouts, grass seed attachment, and of simple regulation; and a fourth, a combined wheat drill cultivator, by J. Elliott & Co., London. A number of turnip drills were on hand. One shown by James Clayton, Whitby, sows and rolls two rows, is drawn by one horse, and will sow fine manure along with the seed. If this will do what is promised in its name, it is a cheap boon to farmers at the price asked for it, viz: \$20. We confess to a slight doubt as to its satisfactory working, and think, from the construction of the rollers, it will be heavy for one horse, and apt to clog in tenacious soils. Another turnip and manure drill was shown by W. & T. Walker, Brampton, also for one horse; price, \$35—more likely we should say than the other to do fair work. These manufacturers exhibited a hand drill, said to sow both manure and seed, price only \$6.50—worth universal attention, if it will do what it professes. They also showed a hand drill for sowing seed only. Similar seed sowers constructed on various principles were shown by D. Darvill, London; J. Watson, Ayr; J. Walker, Westminster; W. Alexander, Falkirk; and George Murray, London. A rough bush-made drill was exhibited by J. R. Morden, Hyde Park, apparently as a specimen of what a bushwhacker can do, in the way of contriving and constructing a turnip-sower. T. Hurst, Avon, exhibited a broad-cast seed-sower. Geo. Murray, of London, showed a seed drill, eleven feet wide, chiefly meant for sowing grass seed, but capable also of sowing the cereals. The "Wethersfield Seed Sower" kept for sale by Mr. Fleming, of Toronto, was also on the ground, and we know it to be a very effective implement for sowing all manner of small seeds. Hay rakes, drawn by horse power, were shown by E. Rokey, Salem; Plummer & Pacey, London; George Flint, Stouffville; and D. Corbin & Bro., Burgessville. A model revolving rake, for harvesting peas, was exhibited by C. E. Anderson, London. T. Bryan, jr., of London, showed a pea scythe of novel construction, and a horse machine, also for harvesting peas. Reapers and mowers did not muster so strongly as last year. The "Wellington," by J. Collins & Co., of Guelph, has an attachment by which a sheaf is made and deposited ready for binding, and this machine attracted much attention. Joseph Sharman, of Stratford, an enterprising young manufacturer, had a "Ball's Ohio" with several improvements, the chief of which are an arrangement for raising and lowering the platform, and a binding apparatus, which with a reel of wire attached, binds the sheaf and leaves it ready for shocking or carrying. L. and P. Sawyer, of Hamilton, showed a "Ball's Ohio" with a flexible automatic sweep rake of their invention. W. Eastwood, of Ingersoll, showed a combined mower and reaper. The "Ayr Combined" was on the ground with fresh improvements added by its enterprising maker, J.

Watson, Ayr. It is a "dropper" after the manner of the "Excelsior" but a change from dropper to platform almost in a twinkling. The "Excelsior" was shown by J. Scott & Co., Dundas. H. A. Massey, of Newcastle, exhibited the "Woods" machine. The "St. George Reaper and Mower" was shown by its maker, B. Bell, St. George. Horse-powers and threshers were exhibited by Hon. E. Leonard, London; H. A. Massey, Newcastle; Haggert Bros., Brampton; McPherson, Glasgow & Company, Fingal; and last, but not least, F. W. Glen, (late Joseph Hall), Oshawa. There were only two exhibitors of fanning-mills, both resident in London—John Stewart and J. M. Cousins. The latter presented one of his mills as a prize to be competed for by the boys at the Grand Provincial Ploughing Match. A flax-seed cleaner and separator was exhibited by James Ballagh, of Jamestown. Farm carts were shown by Castle & Wade, London. Waggon by Plummer & Pacey, London; N. Sheerill, Chatham, (an exceedingly well made and highly finished one); Sam. Day, St. Thomas; and J. Kay, Galt; both the latter being beautiful specimens of mechanical skill. Root-cutters were shown by Thos. Robson, Telfer; D. Dawson, Woodstock; and Maxwell & Whitlaw, Paris. Straw-cutters of various kinds were on hand, the chief exhibitors being Maxwell & Whitlaw, Paris; N. M. Jamsom, St. Catharines; N. Vahn, Preston; J. M. Cousins, London; and A. Anderson, London, who showed a peculiar tooth-edged cutter, and a hay-knife of the same description of edge. A "Farmers' Hay Press" was on the ground, which it is claimed will press hops, cheese, wool, and tobacco, as well as hay. It is made by A. H. Huggins, Oshawa. A "Grain-cracking Mill" was exhibited by A. Harris & Son, Beamsville, and a cider-mill by J. Scott & Co., Dundas. Hugh McLaren, of the Lowville Foundry, showed a stump-machine, constructed on the spiral screw principle. There were two drain-tile machines on the ground, one made by E. Rokey, Salem, and the other by W. Lindsay, Newcastle. The latter makes half-round pipes of from 2 to 6 inches bore, and will turn out from six thousand to eight thousand per day. A model of a drain digging machine was exhibited by John Wainsley, Berlin. It is claimed for it, that when perfected, it will dig a tile drain  $\frac{3}{4}$  feet deep and 8 inches wide, and will do from  $\frac{1}{4}$  to 1 mile per day. May it fulfil all this and more! But we have known promising models to turn out non performing when put to the brunt of real work, and we fear it may be so with this. The smaller farm implements were pretty well represented. T. Bryant, jr., London, exhibited hay rakes, scythes, grain cradles, stubble rakes, straw forks, and thistle extractors. H. Patterson, of St. Mary's, showed a grain cradle; so also did Hugh Campbell, of Aberfoyle; Robert Small of Exeter; and Wm. Dinner, of Lumley. James B. Lezier, of Port Perry, exhibited a grain cradle and a straw fork. A. S. Whiting & Co., of Oshawa, showed a fine lot of toras, scythes, iron rakes, hoes, &c. Shanks & Sons, of Scotland, exhibited a lawn mowing machine. M. L. Roberts, of Smithville, exhibited a post and stake spade. J. Harrington, of Woodstock, exhibited a model of a flax puller, concerning which we can but express the hope that it may work well, and relieve flax growers of the most back breaking part of their business.

#### FENCES.

Quite a variety of fencing was shown at the recent Exhibition. S. Hall was on hand as usual with his "Patent Farm Fence," and around him were several rivals. John Johnston, Morpeth; W. Robson, Ilderton; Charles Jones, London; and S. Washburn, St. George, showed different styles of self-supporting and easily-moveable farm fence. Wire fences were exhibited by T. & W. Walker, Brampton, and E. H. Cooper, London. The latter had a section of fencing made with hoop iron instead of wire. He also exhibited a square of ornamental fencing with a gate attached. We cannot say that we have much faith either in self-supporting or wire fences, and should hardly be inclined to adopt either until fence timber becomes more scarce and dear.

#### WOOD SAWING MACHINES.

The axe is becoming obsolete as a tool for making cord-wood and store-wood. Nicer work can now be done, and at a cheaper rate, withal saving the chips, by means of the sawing machines. Several were on exhibition, and in actual operation at the late Show, cutting their slices of big beech logs to the astonishment of old men who remember the days of their hard toil chopping wood, and to the delight of the young men who rejoice in exemption from the labours of their ancestors. Haggert Bros., Brampton; J. & S. Noxon, Ingersoll; D. Bruce, London; W. Eastwood, Ingersoll; D. Darvill, and Hon. E. Leonard, London, showed these machines. All seem to do good work, but we should be inclined to give the preference to Mr. Leonard's, from its having a very

effective saw-lifting arrangement; also an eccentric rotary motion by which the track of the saw is kept clear of saw-dust, thereby preventing all clogging and sticking.

#### STEAM ENGINES, &c.

These were shown in actual operation by several exhibitors. C. H. Waterous & Co., Brantford, had both a stationary and portable engine; so had Hyslop & Rynard, of Chatham. F. G. Beckett, of Hamilton, showed two stationary and two portable engines of various sizes. Henry Carter, of Bayham, showed a curious hydrostatic engine, for the economical application of water-power. The portable engine shown by the first named firm was of 20 nominal horse-power, though capable of being worked up to 25. There can be no question that this was the largest and best engine of the kind ever exhibited in the Province. The steam chest is constructed on the steam expansion principle, with a "cut off," thus securing great power, with a saving of at least one-half in the consumption of fuel. It was rightly awarded the first prize by the judges, a distinction which it eminently deserved. We understand that this enterprising firm employ upwards of a hundred men in their implement manufactory, and turn out, in addition to other machinery of various kinds, two steam engines per week. Their machines are highly appreciated all over the Province for their sound workmanship and superior finish.

#### Field Products at the Provincial Show.

CONSIDERING the season we have had, this department of the recent Exhibition was very well filled. The show of wheat was large, and the samples were very good. The leading exhibitors were: Fall Wheat—J. O. Sullivan, Campbellford; D. McEvers, Cobourg; and T. Turnbull, Glenmorris. White Winter Wheat—J. O. Sullivan, Campbellford; D. McEvers, Cobourg; W. Thompson, Raglan. Red Winter Wheat—J. O. Sullivan, Campbellford; M. Perden, Campbell's Croft; J. C. Kibbin, Beamsville. Spring Wheat—J. L. Courtier, Pickering; Thomas Gray, Ottawa; R. O. Gill, Colborne; W. Thompson, Raglan. Club Spring Wheat—John Callis, Camborne; Patrick Carrol, Goderich; John Courtier, Pickering; C. Walker, Ilderton. In other seeds there was a good show and excellent competition.

Peas and Indian corn were very plentiful, the entries in both classes numbering over twenty. We were particularly struck with the excellence of the samples of corn. All were good, and the collection furnished proof positive that, despite its northern climate, Canada can raise in perfection this excellent grain.

The Canada Land and Emigration Company exhibited agricultural products from Dysart, in the County of Peterboro'. This is one of the townships recently opened up. The samples of wheat and produce plainly tell that there is land as good in the back townships as in any that have been opened up for years.

Several bales of nicely-cured hops were on exhibition, most of the samples being furnished by growers in the vicinity of London. Amongst the exhibitors were the following.—John Tackabury, A. Brown, J. Farley, R. Stevenson, R. Alexander, W. C. Carter, John Russell, Alex. Russell, J. Wheaton, John Stevenson, and R. Reid, all of London; J. Risley, Preston; M. A. Abbey, Preston; A. Shaw, Lakeside; E. Foote, Aylmer; Albert Loddell, Aylmer, and S. S. Beecher, Frankfort. A number of remarkably fine specimens of flax were shown. The exhibition of roots was not nearly so good as it was in Hamilton, last year; indeed, it was not up to the usual mark. This is not at all surprising, when the dryness of the summer is taken into account. Insects, too, have been more than ordinarily troublesome the present year, so much so that, in many cases, it has been almost impossible to get a good plant. The turnip crop has been seriously damaged in many localities from these causes, and we fear, in some quarters, there will be a scarcity of roots the coming winter. Huge cabbages and monster squashes were shown; these, however, were in all probability raised in gardens, where they got artificial watering and extra attention.