

drought. Peas, 10 bus. Oats, 20 bus. Rye, 15 bus. Hay, 1 to 2 tons; splendid crop.

**OAKLAND.**—Wheat—Spring, 12 to 15 bus, very light, injured by midge; fall, 15 to 18 bus, good quality. Barley, light crop, injured by the drought. Peas, very poor crop, many fields not worth cutting. Oats, 10 to 15 bus. Hay, 1 to 2 tons, pretty good. Roots very poor.

**PARIS.**—Wheat—Spring, very little sown. Very light crop; fall, 25 bus, good quality. Barley, 20 bus, not very plump but bright. Peas and oats, not half a crop, none thrashed. Rye, none grown in this neighbourhood. Hay, one and a half, all got in in good order. Potatoes, very bad prospect for want of rain.

**BURFORD.**—Wheat—Spring, 10 bus per acre; fall, 20 bus per acre. Barley, 18 bus per acre. Peas, 8 bus per acre. Oats, 15 bus per acre. Rye, 16 bus per acre. Hay, 1 to 2 tons per acre. Roots, a failure in consequence of drought. Spring crops in general are a failure in consequence of the great drought.

**BRANTFORD.**—Wheat—Spring, 10 bus, sample equal to last year; fall, 25 bus, large breadth sown, sample not equal to last year. Barley, 15 bus; bright sample, but light berry. Peas, not more than half a crop. Oats, equal to last year. Rye, large breadth sown, average yield. Hay, good crop. Roots a failure.

**MORAWK.**—Wheat—Spring, injured by drought and insects, average 12 bus; fall, full average, from 20 to 30 bus. Barley, short crop, say half, on account of dry weather. Peas, in some fields a total failure, and in others half a crop. Oats, very short in the straw, and about three quarters of a crop. Rye, full average crop. Hay, abundance, more than common in this vicinity. Roots, prospects slim as yet; potatoes taking record growth; turnips, can't say yet. Flax, none in this locality.

#### DURHAM.

**NEWCASTLE.**—Wheat—Spring, 50 bus, quality middling; fall, 20 bus, good, not much sown. Barley, 20 bus, average crop. Peas, 20 bus, not equal to former years. Oats, 30 bus, light crop. Rye, 25 bus, fair average crop. Hay, two tons, good crop.

**BETHANY.**—Wheat—Spring, average 20 to 25 bush, straw short, grain small but bright; fall 25 to 30, straw enough to give 40 bus. Barley, 25 to 30, small but bright. Oats, not much in this locality. Hay, under usual quantity. Roots will not be an average.

**BRUNSWICK.**—Wheat—Spring, from 10 to 12 bus; fall, about 20 bus, in general not well filled on account of dry weather. Barley, none grown in this part. Peas, none. Oats, from 10 to 12 bus. Rye, about 12 bus. Hay, from 1 to 2 tons. Potatoes, very few, could hardly give an estimate.

**CAVAN.**—Wheat—Spring, 12 bus, has not filled, injured by drought; fall, 14 bus, weather too hot for wheat to fill, low land rusted. Barley, 28 bus, not so much sown as last year. Peas, prospect bad, almost a failure, caused by dry weather. Oats will be a little below the average, but better than last year. Rye, 20 bus, not much sown. Hay, 1 ton, above the average. Roots, a failure.

**BOWMANVILLE.**—Wheat—Spring, 20 bus, on the whole an average crop; fall, 25 bus, but little sown in this neighbourhood. Barley, 35 bus, light crop, warm weather causing it to ripen too soon, good bright sample. Peas, 15 bus, poor crop. Oats, 20 bus, not near an average crop. Rye, not much grown. Hay, 3 tons, heavy yield. Roots, a failure.

**MILLBROOK.**—Wheat—Spring, 15 bus, very good quality; fall, 20 bus, sample not so good as last year, but twice the quantity. Barley, 20 bus, grain bright and good colour, but very light and small. Peas, 5 to 10 bus, not much more than the seed will be taken off, and poor quality. Oats, 15 to 20, very light and poor. Rye, none raised. Hay, very large crop, and well saved. Potatoes and turnips, almost a total failure.

**BURTON.**—Wheat—Spring, 20 bus, injured some what by drought; fall, 25 bus, grown rather much to straw. Barley, 30 bus. Peas, 18 bus, hurt by drought. Oats, 25 bus, injured considerably for want of rain. Rye, 10 bus. Hay, 2 to 3 tons, an excellent crop, there is a great deal of it grown this year. Potatoes, 100 bus, very poor, resulting from drought. Turnips, a middling good crop. Beets, none raised here. Carrots, a fair crop, very few cultivated. Flax, scarcely any grown in this district.

**HAYDON.**—Wheat—Spring, 15 bus, plenty of straw but failure in the kernel; fall, 18 bushels, plenty of straw, second sample of grain. Barley, 25 to 30 bus, grain small and blighted. Peas, 18 bushels, pods short, peas small. Oats, 35 to 40 bus, average sample. Rye, 20 bus, plenty of straw, average sample. Hay, 1 to 2 tons, good quality and well saved. Potatoes, below an average. Turnips, almost a failure. Beets, average crop. Carrots, 200 bush. Flax not much sown. The drought had a bad effect on the root crop.

**AMFORD.**—Wheat—Spring, 20 bus, will be fully an average crop; fall, not much sown, but the yield will be good. Barley will turn out pretty well, the grain will not be large, but will be bright. Peas will be very light generally in light soil, but those sown early on good soil will yield well. Oats, early sown will be a great yield, from 60 to 80 bushels per acre, late sown will not be worth much. Rye, very little sown. The crop of hay has not been so heavy for many years. I consider that the crops of cereals will be a very good average. Flax, very little attention paid to flax.

**BALLYDUFF.**—Wheat—Spring may average 20 bus to the acre on heavy land, on light land not more than 20 bus; fall, on good heavy land it will give from 20 to 30 bus. Barley is a very poor crop in general in consequence of the dry season, it will not be more than 15 bus at the best. Peas will turn out the same as barley. No oats to mention and what is, will not average 15 bus. Rye, fall rye done pretty well, but spring rye will not average 10 bus to the acre about here. Hay, not much grown here, but was pretty good. Potatoes are poor from appearances now, they will not average 50 bushels. Turnips seem to be good, they will run the same as last year. Beets and Carrots, none to mention. Flax, none sown here.

#### LINCOLN.

**BEAMSVILLE.**—Wheat—Spring, 15 bus, much hurt by the midge; fall, 25 bus, a very satisfactory crop. Barley, 25 bushels, suffered from the drought. Peas, 5 to 10 bus, no crop, drought. Oats, 20 bushels, on clay lands quite a failure, caused by drought. Rye, none. Hay, 1 to 2 tons, a very good crop.

**CAISTOVILLE.**—Wheat—Spring, 20 to 25 bushels, slightly injured by drought, early sown a little affected from midge; fall, 25 bus, considered a good crop. Barley, 15 to 20 bus, light crop, injured by drought. Peas, a failure round here. Oats, 15 to 20 bushels, generally light from want of rain. Rye, not raised here. Hay, 1 to 2 tons, a good crop, well saved. Potatoes, a failure in this vicinity. Turnips, not raised to any extent.

**ATHELCLIFFE.**—Wheat—Spring, might average 10 bushels, destroyed by drought and insects; fall, average 15 bus, generally good. Barley, 15 bus. Peas, hardly 10 bus. Oats, may be 12 bus, but very light in consequence of the continued dry weather. Rye, very little grown. Hay, about 1 ton; the damp, low lands might average a ton and a half. Potatoes, almost a failure. Turnips, none grown. Flax, none grown.

**PORT DALHOUSIE.**—Wheat—Spring, 15 bushels, damaged by drought and insects, grain light; fall, 20 bus, fair, double the quantity of last year, grain good and but little damaged. Barley, 20 bus, fair crop and grain good. Peas, 15 bus, light crop from drought. Oats, 35 bus, generally good. Rye, 30 bus, not much raised. Hay, 3 tons, never better. Roots—Potatoes, 30 bus, drought has hurt them much. Turnips, 20 bus, almost a failure. Beets, 20 bus, almost a failure. Carrots, 20 bus, almost a failure. Flax, none grown. No corn, cutting up the stalks for fodder.

#### PATENTS OF INVENTION.

##### DEPARTMENT OF AGRICULTURE.

##### PATENT BRANCH.

OTTAWA, 10th August 1868.

**HIS** Excellency the Governor-General has been pleased to grant Letters Patent of Inventions to be in force in the Provinces of Ontario and Quebec, for a period of fourteen years from the dates thereof, to the persons whose names are included in the following list.

Published by command,

A. J. CAMBIE,

Acting Deputy of the Minister of Agriculture.

No. 2386. John Carnie, of the township of South Huron, in the county of Brant, stone mason, a new and useful hot air furnace.—Dated Ottawa, 19th June, 1867.

No. 2387. George W. McGill, of the village of Port Erie, in the county of Welland, gentleman, a new and useful fastener for paper, parchment, cloth, leather, or other material or fabrics, called McGill's metallic fastener.—Dated Ottawa, 19th June, 1867.

No. 2388. William Comstock Dobbin, of the village of Bridgeport, in the county of Waterloo, machinist, certain new and useful improvements in the machine called and known as Dobbin's one-horse cultivator for turnips, corn, potatoes, and all crops required to be cultivated in drills or rows.—Dated Ottawa, 19th June, 1867.

No. 2389. William C. Evans, of the city of Kingston, in the county of Frontenac, a manufacturer, a new and useful mineral cement.—Dated Ottawa, 19th June, 1867.

No. 2390. John B. Thomas, of the township of Earnestown, in the county of Lennox and Addington, yeoman, a new and useful invention called the metallic hane fastening.—Dated Ottawa, 19th June, 1867.

No. 2391. Grimmon Austin, of the town of Perth, in the county of Lanark, gentleman, a new and useful improvement in cheese vats.—Dated Ottawa, 24th June, 1867.

No. 2392. William Parson, jr., of the city of Toronto, in the county of York, petroleum oil refiner, new and useful improvements in manufacturing gas from spirits of petroleum.—Dated Ottawa, 24th June, 1867.

No. 2393. Donald Bethune, of the town of Port Hope, in the county of Durham, Esq., Bethune's railway train stopper.—Dated Ottawa, 24th June, 1867.

No. 2394. Otto Botzow, of the city of Kingston, in the county of Frontenac, doctor of medicine, new and useful deodorizers called the safe deodorizers.—Dated Ottawa, 24th June, 1867.

No. 2395. Francis Stevens Huntley, of the city of Toronto, in the county of York, gentleman, a new and useful portable lamp shade holder.—Dated Ottawa, 26th June, 1867.

No. 2396. Solomon White, of the town of Windsor, in the county of Essex, Esq., assignee of Samuel H. Cain, of the same place, machinist, a new and improved motion for vertical saw or method of giving an upright saw (single or gauge), the oscillating, reciprocating or whip saw or rocking motion.—Dated Ottawa, 26th June, 1867.

No. 2397. James Davenport Whelpley and Jacob Jones Storer, by special act, 29 and 30 Vic. cap. 163, a new and useful crusher and pulveriser for reducing to powder by novel and improved method, metallic and mineral substances including fuel.—Dated Ottawa, 26th June, 1867.

No. 2398. James Davenport Whelpley, and Jacob Jones Storer, by special act, 29 and 30 Vic. cap. 163, new and useful improvements in the application of pulverised fuel as a combustible for the generation of heat and light.—Dated Ottawa, 26th June, 1867.

No. 2399. James Davenport Whelpley and Jacob Jones Storer, by special act, 29 and 30 Vic. cap. 163, a new and useful process for the treatment of the metallic ores and fuel pulverised in a peculiar furnace and a subsequent operation and reduction of metal thus treated.—Dated Ottawa, 26th June, 1867.

No. 2400. James Davenport Whelpley and Jacob Jones Storer, by special act, 29 and 30 Vic. cap. 163, a spray wheel for melting down and precipitating dust and noxious gas from furnaces.—Dated Ottawa, 26th June, 1867.

No. 2401. William Owen, of the city of Toronto, in the county of York, gentleman, a new and useful reversible rotary steam engine.—Dated Ottawa, 3rd January, 1868.

No. 2402. Neil Currie, of the city of Toronto, boiler maker, James Currie, of the city of Toronto, boiler maker, and William Owen, of the same city of Toronto, gentleman, a new and useful steam injector for injecting water into steam boilers or tanks, without the aid of pumps for lifting the water, and for injecting water into wheels, for supplying reservoirs with water.—Dated Ottawa, 3rd January, 1868.

No. 2403. Alfred Wilson, of the village of Belle Ewart, in the county of Simcoe, gentleman, a new and useful self-acting car coupler.—Dated Ottawa, 7th January, 1868.

No. 2404. Henry Benedict Wales, of St. Andrews, in the county of Argenteuil, farmer, a new and useful drilling, planting, cultivating and potato digging machine combined, called Wales' combined drilling, planting, cultivating and potato digging machines.—Dated Ottawa, 7th January, 1868.

No. 2405. Lafrette D. Michel, of the township of Townsend, in the county of Norfolk, physician, a new and useful apparatus for the carbureting and regulating the flow of gas.—Dated Ottawa, 7th January, 1868.

No. 2406. William Augustus Gerolamy, of the village of Tara, in the township of Arran, in the county of York, farming and miller, an improved fanning mill.—Dated Ottawa, 7th January, 1868.

No. 2407. John Thompson, of the town of Woodstock, in the county of Oxford, carpenter, certain new and useful improvements in a gang plough.—Dated Ottawa, 8th January, 1868.

No. 2408. William W. Macdon, of the town of Lindsay, in the county of Victoria, machinist, a new and useful improvement in hesters.—Dated Ottawa, 7th January, 1868.

No. 2409. John Adam, of the town of Chatham, in the county of Kent, fanning-mill maker, a new and useful improvement in the mechanism of fanning-mills, such improvement consisting in the peculiar arrangements of the shafts and pinions therein, whereby the speed of the vibration of the shoe, screws and riddles is increased, and the function of the fan being at the same time increased.—Dated Ottawa, 9th January, 1868.

No. 2410. William Geiss, of the town of Paris, in the county of Brant, machinist, a new and useful lever for sewing machines (for taking up the slack thread therein) called the positive take up lever.—Dated Ottawa, 9th January, 1868.

No. 2411. Henry Jackson, of the town of Chatham, in the county of Kent, grocer, a new and useful double coupling stove.—Dated Ottawa, 9th January, 1868.

No. 2412. David Harris, of the town of Ingersoll, in the county of Oxford, carpenter and joiner, a curd-dryer.—Dated Ottawa, 10th January, 1868.

No. 2413. Frank Evans, of the village of Orillia, in the county of Simcoe, barrister at-law, a new and useful trifoliate hinge, opening both inwards and outwards.—Dated Ottawa, 10th January, 1868.

No. 2414. Patrick Reynolds, of the township of Sarnia, in the county of Lambton, cordwainer, a new and useful improved horse rake.—Dated Ottawa, 10th January, 1868.

No. 2415. Jacob Smith Johnson, of the town of Picton, in the county of Prince Edward, yeoman, a new and useful hay and manure fork, called the Dominion fork.—Dated Ottawa, 11th of January, 1868.

No. 2416. William Clements, of the village of Newbury, in the county of Middlesex, veneer manufacturer, a new and useful veneer knife.—Dated Ottawa, 11th January, 1868.

No. 2417. George Lenhard, of the city of Toronto, in the county of York, machinist, a new and useful method of arranging springs for beds, mattresses, seats of sofas, chairs and ottomans.—Dated Ottawa, 13th January, 1868.

No. 2418. Wesley Smith, of the town of Brantford, in the county of Brant, yeoman, a new and useful composition for the tanning of hides and skins.—Dated Ottawa, 13th January, 1868.

No. 2419. Sanford Moor, Eastman, of the town of St. Mary's, in the county of Perth, cabinet maker, a new and useful combined foot stove and lantern, called Eastman's combined foot stove and lantern.—Dated Ottawa, 13th January, 1868.

No. 2420. John Pike, Assignee of Thomas Oreen Spencer, of the city of Ottawa, in the county of Carleton, gentleman, a new and useful washing machine.—Dated Ottawa, 14th January, 1868.

No. 2421. Cyrus Dean, of the village of Port Robinson, in the county of Welland, engineer, a new and useful force and lift pump combined, to be called and known as Dean's force and lift pump.—Dated Ottawa, 14th January, 1868.

No. 2422. George Ash, of the township of Brantford, in the county of Brant, blacksmith, Ash's Canadian horse grappling fork.—Dated Ottawa, 14th January, 1868.

No. 2423. Barnabas Clark, of the town of St. Catharines, in the county of Lincoln, carpenter, a new, useful and improved corn planter.—Dated Ottawa, 14th January, 1868.

No. 2424. John Watson Hughes, of the village of Schomberg, in the township of King, in the county of York, merchant, certain new and useful improvements in foot warmers.—Dated Ottawa, 14th January, 1868.

No. 2425. Joseph John Vaughan, of the city of Ottawa, in the county of Carleton, architect, a new and useful railroad car coupling.—Dated Ottawa, 14th January, 1868.

No. 2426. Uriah Wesley Minor, of the village of Port Colborne, in the county of eland, watchmaker, a new and useful removable folding clothes drier.—Dated Ottawa, 14th January, 1868.

No. 2427. Michael Mater, of the village of Chippawa, in the county of Welland, gun-smith, a new and useful breech-loading rifle and gun.—Dated Ottawa, 15th January, 1868.

No. 2428. Andrew Gordon Land, of the town of Brantford, in the county of Brant, gentleman, a new and useful elevator, to be known as A. G. Land's hydraulic elevator.—Dated Ottawa, 15th January, 1868.

No. 2429. William Aspley Robinson, of the city of Hamilton, in the county of Wentworth, mechanical engineer, a new and useful valve motion and gear.—Dated Ottawa, 16th January, 1868.

No. 2430. Francis Ellershausen, of the city of Montreal, metal-lurgist, certain new and useful improvements in the manufacture of cast malleable iron.—Dated Ottawa, 16th January, 1868.

No. 2431. Thomas Abel, of the city of Montreal, machinist, a new and useful fly-wheel copying press.—Dated Ottawa, 20th January, 1868.

No. 2432. Donald Bethune, of the town of Port Hope, in the county of Durham, Esq., a new and useful discovery called Bethune's new and improved mode of working railway brakes.—Dated Ottawa, 20th January, 1868.

No. 2433. Damas Lamoureux, of the city of Montreal, gentleman, a certain new and useful improvement in the manufacture of substances made from a mixture of tar or asphalt and broken stones and analogous substances, to be called the concrete tar composition.—Dated Ottawa, 22nd January, 1868.

No. 2434. James Howard, of the city of Hamilton, in the county of Wentworth, gentleman, a new and useful apparatus for applying petroleum or other oils as fuel, which he calls the hydrocarbon.—Dated Ottawa, 22nd January, 1868.

No. 2435. Mathew Lyman Roberts, of the village of Smithville, in the county of Lincoln, potash manufacturer, a new and useful hay and straw drier.—Dated Ottawa, 17th January, 1868.

No. 2436. James Eves, of the city of Toronto, in the county of York, soda water manufacturer, a new and useful nectar cream mineral water.—Dated Ottawa, 17th January, 1868.

No. 2437. Thomas Murtagh, of the village of Smithville, in the county of Lincoln, coach builder, a new and useful carriage wheel.—Dated Ottawa, 17th January, 1868.

No. 2438. Henry Pierce, of the village of Chippawa, in the county of Welland, tinmith, a new and useful steamer and plate-warmer.—Dated Ottawa, 17th January, 1868.

No. 2439. John Kirkpatrick, of the city of Montreal, in the district of Montreal, mechanical engineer, a certain new and useful railway spike and nail.—Dated Ottawa, 17th January, 1868.

No. 2440. Neil Cook, of the town of Prescott, in the county of Grenville, dyer, a new and useful door and gate spring.—Dated Ottawa, 17th January, 1868.

No. 2441. George W. Eadie, of the city of Montreal, merchant, a certain new and useful improvement in spades.—Dated Ottawa, 17th January, 1868.

No. 2442. Solon Martin Cook, of the town of Brantford, in the county of Brant, blacksmith, a new and useful machine for sharpening axes.—Dated Ottawa, 17th January, 1868.

No. 2443. Gny Carleton Pease, of the city of Ottawa, in the county of Carleton, blacksmith, a new and useful gate.—Dated Ottawa, 14th January, 1868.

No. 2444. Thomas Alexander, of the village of Glen Williams, in the county of Lincoln, blacksmith, a new and useful improvement in barrows.—Dated Ottawa, 15th January, 1868.

No. 2445. Alfred James Lemon, of the township of Beverley, in the county of Wentworth, yeoman, a new useful and improved potato-digger and turnip-puller.—Dated Ottawa, 16th Jan., 1868.

No. 2446. Sarah Coates Leeming, of the city of Montreal, in the district of Montreal, the wife of John Leeming, of the same city of Montreal, auctioneer, for the introduction of certain improvements in brick-making machines.—Dated Ottawa, 16th January, 1868.

No. 2447. Jacob Damude, of Pontthill, in the county of Welland, yeoman, a new and improved gate to be called the new dominion gate.—Dated Ottawa, 17th January, 1868.

No. 2448. Thomas Henry Ince, of the city of Toronto, in the county of York, gentleman, for the introduction of a new and useful apparatus for extinguishing fires called the 'extincteur' or portable fire engine.—Dated Ottawa, 18th January, 1868.

No. 2449. François Alexandre Hubert LaRue, of the city of Quebec, Doctor of Medicine, and Cyrille Duquet, of the same city of Quebec, watchmaker, a new and useful purifier of river sand, called 'Purificateur du Sable Magnétique'.—Dated Ottawa, 20th January, 1868.