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## RECORD




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### CONTENTS.

INVENTIONS PATENTED.....	145
INDEX OF INVENTIONS... ..	CLIII
INDEX OF PATENTEES .....	CLIII
ILLUSTRATIONS .....	154

### INVENTIONS PATENTED.

#### No. 10,278. Improvements on Milk Vats.

(Perfectionnements aux boites a lait.)

James McKelvey, St. Catharines, Ont., 21st July, 1879, for 5 years.

Claim—1st The combination of a filter in connection with a cream still or portable cream gatherer; 2nd, The filling down or opening of the ice chamber; 3rd, The two subdivisions of the ice chamber.

#### No. 10,279. Cockle and Oat Separator. (Séparateur de nielle et d'avoine.)

Herman Kurth, Hamilton, Ont., 21st July, 1879, for 5 years.

Claim—1st A grain separator, in combination with an open revolving cylinder or cylinders having indentations or cavities on the inner surface and provided with brush, catchboard trough, spout, or conveyor; 2nd A revolving cylinder or cylinders for extracting cockle from the full and broken kernels of grain; 3rd A revolving cylinder or cylinders, provided with pockets or cavities, in combination with a shaker having a lateral shaking movement, including one or more sieves with different sizes of holes one or more of said sieves, to be placed on the top of said cylinder or cylinders, in combination with a blind bottom return spout in the cylinder or cylinders; 4th A revolving cylinder C, or cylinders, in combination with a trough or spout or conveyor; 5th A revolving cylinder, or cylinders, in combination with a brush q; 6th A revolving cylinder, or cylinders, in combination with a catchboard z; or catchboards; 7th A revolving cylinder C, or cylinders, in combination with a suction fan a3, feed roller a, air trunk b, air trunk b1, suction leg c1, partition i suction regulator g, screenings discharge box w, air hole e1 with regulator or partition r, first movable door z z, second movable door z z, suction boxes a a b b1; 8th A cylinder, or cylinders, with indentations or cavities, in combination with a suction fan a3, to be placed on the top of said cylinder or cylinders; 9th A cylinder, or cylinders, in combination with a suction fan and air chambers, for the purpose of taking dust and light impurities from the grain and carrying it around over the said fan so as to discharge said impurities opposite when the grain is discharged; 10th A cylinder, or cylinders having indentations or cavities made from one single thickness of zinc, or other metal, or perforated cylinder or cylinders with a consolidated or non-removable jacket, in combination with a suction fan, so as the grain passes through an air chamber by entering into the machine, and when leaving said machine each air trunk is to be so regulated as to remove the light impurities and discharge them independently from each other; 11th A cylinder C, or cylinders, in combination with a shaker placed on the top and inside of said cylinder, or cylinders, in combination with a series of sieves, one or more to be placed on the top of said separation sieve, or sieves, so to bring a lateral shake motion on said set of sieves (which have different sizes of holes) so as the shaker operating first on the grain by a lateral shake motion and afterwards by an end-shaking motion; 12th A revolving cylinder C, or cylinders, with indentations or cavities in combination with an arrangement of zig zag sieves placed over and across the cylinder, in combination with a movable slide or oil cloth, in the shape of a window blind, which is to be placed on the head of each sieve; 13th A cylinder, or cylinders, having indentations or cavities, pockets or cells on the inner surface, the same being divided into two compartments D E by means of an annular disc or ring y and the large perforations m near the middle of the cylinder, for the discharge of the small wheat immediately in front of the annular disc or ring y; 14th A revolving cylinder, or cylinders, with indentations or cavities, pockets or cells, which discharge the clean grain nearer to the middle than the ends of the cylinder through perforations, or an elevator instead of the perforations as an equivalent for carrying away the grain; 15th A grain separator, in combination with one or more suction separators and oat separator attached with grain separator sieves or sieves, in combination with revolving cylinder, or cylinders, having indentations or pockets on the inner surface; 16th An open revolving cylinder with

indentations or pockets on its inner surface, with one flange g on its front end, and the annular disk or ring y, near the central inner portion of the cylinder; 17th A revolving cylinder, or cylinders, with indentations or pockets on its inner surface in which the cockle, etc., is first separated from the large wheat, then from the small wheat and lastly from the broken grain, by means of the automatic action of the machines itself and without the assistance of an operator; 18th The combination of the revolving separator C, constructed with open ends R, a sieve K, or sieves, spout or trough p p1, brush q, connected together and placed in zig zag form with bank and forward end motion, the large grain discharge box P, scootering box H, spring Q Q, etc., the zig or top sieve K, being placed on the top of the revolving separator C, while the spout or trough p p1, brush q are placed inside, a catchboard z passing through the inside of the cylinder and attached to the frame at each end; 19th An open revolving cylinder C (one or more may be used) having indentations or pockets on its inner surface, of proper size, to receive singly the grains of cockle or other small seed, the rings z z, the friction rollers t t, shafts u u, on a side the cylinder, the same being placed inside the cylinder, and operating it therefrom to support the same and enable it to rotate with unobstructed ends.

#### No. 10,280. Improvements in Spark Arresters. (Perfectionnements aux arrête-flammèches.)

John Abell, Woodbridge, Ont., 22nd July, 1879, for 5 years.

Claim—1st The smoke deflecting plate E, extending over the smoke passage and arranged for the purpose of deflecting the smoke, sparks, etc., into a water reservoir; 2nd The deflecting plate E in combination with the dome D and water reservoir C.

#### No. 10,281. Improvements on Water Wheels. (Perfectionnements aux roues hydrauliques.)

William Young, Townsend, Ont., 22nd July, 1879, for 5 years.

Claim—The combination of the curved plates D, attached to the central cylinder B working the shaft A, said curved plates being encased in a circular rim C extending around the wheel.

#### No. 10,282. Improvements on Mechanical Movements. (Perfectionnements aux mouvements mécaniques.)

Irving M Avery, New York, N. Y. U. S., 22nd July, 1879, for 5 years.

Claim—The combination, with an oblique disc B mounted on a revolving or rocking shaft of a lever D which connects with a slide E, so that when the shaft is turned, a reciprocating motion is imparted to the slide, and the slide is prevented from being crowded on its guide, or in its bearings.

#### No. 10,283. Improvements in Pipe Cutters. (Perfectionnements aux coupeurs de tuyaux.)

William L Truland and Edward Tracy, Lansingburgh, N. Y., U. S., 22nd July, 1879, for 5 years.

Claim—The cutting blade D, constructed with an arm D1 and heel D2, the arm being provided with a screw F on one side of lever A, and the heel having the pressure spring C, on its opposite side.

#### No. 10,284. Improvements on Steam Engines. (Perfectionnements aux machines a vapeur.)

Frederick A Gardner, Buffalo, N. Y., U. S., 22nd July, 1879, for 5 years.

Claim—1st The cylinder frames A A1, provided with the steam passages B B1 in combination with the cylinders D, having trunnions and ports and a base provided with longitudinal steam passages J J1 and reversing valve E2; 2nd The crank shaft composed of the parts E1 E2, in combination with the sleeve F1 perforated piston ends F and frames A A1; 3rd The sleeves B1 in combination with the trunnion C1, packing B1 B1, tightening glands D1 and frames A A1; 4th The combination of two oscillating cylinders, having trunnions C1, removable port sleeves B1, a supporting frame on each side having steam passages leading to the trunnion ports, a base provided with passages for a lifting beam to the passages in the frames A A1 and for receiving the exhaust therefrom, and a reversing valve.