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INVENTIONS PATENTED.

No. 11,801. Compressed Air Engine. (*Machine atmosphérique.*)

Frederick E. B. Beaumont, Westminster, Eng., 23rd September, 1880; for 5 years.

Claim.—1st. The method of regulating the working power, to suit variations in the pressure of the working fluid, by expansion apparatus applied to the first cylinder, whereby the supply of working fluid can be cut off sooner or later during each stroke. 2nd. The method of obtaining temporary energetic action by holding open the supply valves of the first cylinder so that, while its piston moves in equilibrium, the full pressure of the fluid is admitted to act on the piston of the next larger cylinder. 3rd. The double supply valves *et*, the one of which is free to seat itself independently of the other. 4th. The combination, with the supply valves *et*, of the lever *G* worked by the eccentric link, the valve levers *es* with their rollers *es*, the screwed rod *A3* worked from the piston rod, and the sliding adjustable blocks *h*. 5th. In combination with the valves *et* and their lever *es*, the hand levers *kt*. 6th. In each compound engine, the combination of the one lever *G* and weight-shaft worked by the eccentric link, with the arms *f* and their links, and the several valve levers *et f*. 7th. In combination with the compound cylinders *E F*, the casings *d* supplied with steam or hot fluid.

No. 11,802. Improvements on Medical Batteries. (*Perfectionnements aux batteries médicinales.*)

Thomas H. Hicks, Brantford, Ont., 23rd September, 1880; for 5 years.

Claim.—1st. The discs *A*, *B*. 2nd. The combination of the said discs, in such a manner that every disc, both of primary and secondary will be in contact with iron core. 3rd. The combination and utilization of the power of both electro-magnets for producing interruptions of the primary discs, together with the production of a secondary electric current in every alternate disc. 4th. The combination of the branch wires *S P* with primary and secondary discs.

No. 11,803. Improvements on Field Fences. (*Perfectionnements aux clôtures des champs.*)

Gilbert Merritt, Scotland, Ont., 23rd September, 1880; for 5 years.

Claim.—In combination with the rails *A* of a zig zag fence, the wire *B* looped around the angles of intersection of the rails for binding the panels.

No. 11,804. Improvements in Cultivators and Seeders. (*Perfectionnement aux cultivateurs et aux semoirs.*)

Henry Springer, Vicksburg, Mich., U.S., 23rd September, 1880; for 5 years.

Claim.—1st. The short axle *F* mounted on the vertically sliding racks *G*, working the ways *H* at opposite sides of the frame *A*, the pinions *I* and segment levers, in combination with the seeder, the hopper *a* of which is provided with the downward extension vertically adjustable on the standards or arms *c* by means of bolts and nuts. 2nd. The main frame *A* having bars *C* and *D* provided with segmental racks *R* with a continuous mortise through the rack and frame, in combination with the shaft *K* carrying the cultivator teeth, the rods *Q* and toothed plates *P*. 3rd. The combination of the shaft *K* provided with grooves *M* with the S-shaped tooth *L* having the slot *J* at its upper end, the supporting bolt and the plate *N*. 4th. The seed hopper *a* vertically adjustable on the main frame, carrying the rotary agitator *f* provided with the pinion *d*, in combination with the hand lever *t* and the cog-wheel *e* upon the short shaft *F* of one of the vertically adjustable wheels *E*.

No. 11,805. Improvements on Car-Couplings. (*Perfectionnements aux attelages des chars.*)

William L. Fisher, South Saginaw, Mich., U.S., 23rd September, 1880; for 5 years.

Claim.—The combination of the draw head, chambered as described, the dog *C* pivoted on a horizontal axis and weighted to cause its upper end to move forward, the link *D* and the coupling pin *B* slotted as described, and having a shoulder *a* adapted to rest either upon the upper end of the dog or the inner end of the link.

Claim.—The combination of the draw head, chambered as described, the dog *C* pivoted on a horizontal axis and weighted to cause its upper end to move forward, the link *D* and the coupling pin *B* slotted as described, and having a shoulder *a* adapted to rest either upon the upper end of the dog or the inner end of the link.

No. 11,806. Improvements on Rotary Churns. (*Perfectionnement aux barattes rotatoires.*)

Peter A. Ryckman, Duntroon, Ont., 23rd September, 1880; for 5 years.

Claim.—The pivoted hand lever *E* provided with the cross bar *F* and flexible cord *G*, in combination with the dasher spindle *C* provided with a fly or balance wheel, said lever being adapted to move up and down, and to rotate the dasher alternately in opposite directions by the winding and unwinding of the cord on the top of the spindle.

Claim.—The pivoted hand lever *E* provided with the cross bar *F* and flexible cord *G*, in combination with the dasher spindle *C* provided with a fly or balance wheel, said lever being adapted to move up and down, and to rotate the dasher alternately in opposite directions by the winding and unwinding of the cord on the top of the spindle.

No. 11,807. Improvements in Machines for Heating and Purifying Feed Water for Steam Boilers. (*Perfectionnements aux machines à chauffer et purifier l'eau d'alimentation des chaudières à vapeur.*)

Donald McMillan and Henry R. A. Boys, Barrie, Ont., 23rd Sept., 1880; for 5 years.

Claim.—1st. The cold water supply pipe *B* so placed in front of the exhaust pipe *A* as to feed the supply water directly on the steam as it issues from the cylinder. 2nd. The inclined pipe *C* in which the feed water is beaten into spray and instantly boiled. 3rd. The tank *D* with the exhaust pipe *E*, gauge cock *H* and hole *I*. 4th. The filter *F* with its feed water pipe *G*.

Claim.—1st. The cold water supply pipe *B* so placed in front of the exhaust pipe *A* as to feed the supply water directly on the steam as it issues from the cylinder. 2nd. The inclined pipe *C* in which the feed water is beaten into spray and instantly boiled. 3rd. The tank *D* with the exhaust pipe *E*, gauge cock *H* and hole *I*. 4th. The filter *F* with its feed water pipe *G*.

No. 11,808. Improvements on Gas Regulators. (*Perfectionnements aux régulateurs à gaz.*)

George S. Woodruff, Toronto, Ont., 23rd September, 1880; for 5 years.

Claim. 1st. The combination, formed inside of metal case *a*, of the cone-shaped seat *B* and the jam nut screw washers *C C* at the inlet *H* and outlet *I* of metal case *a*. 2nd. The combination of the coal cross bars *D D* connected with valve spindle *E* and valve *P* attached, and spiral spring *f* connected around valve spindle *E*, all formed in combination inside of cone-shaped seat *B* making a seat any desired point working automatically without the use of a flexible diaphragm.

No. 11,809. Apparatus for Drying Coffee, Grain, Fruit and other Materials. (*Appareil pour sécher le café, le grain, les fruits et autres objets.*)

Sir Henry Scholfield, Guatemala, 23rd September, 1880; for 5 years.

Claim.—1st. The closed chamber *A*, provided with perforated bottom, closed top *c* and chimney *C*, and having, combined with a steam coil beneath the bottom, steam aspirator placed in the chimney, and a suitable steam generator. 2nd. The combination with chamber *A* having the pyramidal top *e*, chimney *C* and perforated bottom *d*, of the screen *g* and steam aspirator *D*. 3rd. Drawing previously heated air through a chamber containing the material, by exhausting of the air in the chamber.

No. 11,810. Improvements in Cot Beds. (*Perfectionnements aux hamacs à l'anglaise.*)

Henry Whiteside, Sussex Vale, N.B., 23rd September, 1880; for 5 years.

Claim.—The combination of the legs *B B* with notched braces *D D* and head board *E*.