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### INVENTIONS PATENTED.

NOTE—Patents are granted for 15 years. The term of years for which the fees have been paid, is given after the date of the patent.

#### No. 18,747. Broom Support. (*Porte-Balai.*)

William T. Shaffer, Evanstown, Wyoming, U. S., 1st March, 1884; 5 years.

*Claim.*—As an improved article of manufacture, the broom pocket A made similar in shape to the brush of a broom, and provided with a closed bottom, having a central aperture *a*, neck B around said aperture, and the slot C extending from the top down to, and through the neck, the said slot being of a uniform width throughout, and of a width greater than the diameter of a broom-handle, as set forth.

#### No. 18,748. Fire-Escape. (*Sauveteur d'Incendie.*)

John Osborne, Arnprior, Ont., 1st March, 1884; 5 years.

*Claim.*—1st. In a reversible fire-escape, the sliding arm or guide provided with friction blocks B, and also provided, at one of its two ends, with a suspension device H and a friction brake C<sub>1</sub>, the latter as described, with an actuating spring, and also adapted to be operated by hand, either brake, whereby the attendant is enabled to grasp and operate by means of its springs. 2nd. In a fire-escape, the frame or body provided with the fixed friction surfaces B and C<sub>1</sub>, the two pivoted brakes C<sub>2</sub> and springs applied to actuate said brakes, whereby the action of both brakes is secured automatically independently of the control of the operator. 3rd. In a fire-escape, the combination, with the frame having the stationary friction surface C<sub>1</sub>, of the pivoted brake C<sub>2</sub> and the elastic encircling band E, the parts being provided, as described, with a series of notches to admit of the band being secured in different positions. 4th. The combination of elastic bands E with the bar and the brake blocks C, C<sub>2</sub>, all substantially as described and for the purpose set forth.

#### No. 18,749. Oil Stove. (*Poêle à Huile.*)

John E. Fleming, Minneapolis, Min., U. S., 1st March, 1884; 5 years.

*Claim.*—1st. The cone supporter N having legs of unequal length, in combination with an argand burner for the purpose of resting against the sides of the air tube and of supporting the cone, substantially as shown and described. 2nd. In an argand burner, the combination of the cone M having lugs *i, i*, and cone supporter N having slots *e, e*, and inclined surface *t, t*, for the purpose of attaching and detaching the cone from its supporter, substantially as shown and described. 3rd. In a burner, the combination of the slotted wick-raiser H, armed with annular diaphragm Q, substantially as shown. 4th. The combination and arrangement of the air tube E, wick tube F and wick-raiser H, with the removable or adjustable cone M, substantially as and for the purpose described. 5th. The combination of the drum D and dome V of an oil stove, with an argand burner having the re-usable cone M, the adjustable cone supporter N and internal air tube J, substantially as shown and described. 6th. In combination with the wick-feeding mechanism of an argand burner, a detachable or adjustable central air-supplying cone M, provided with a perforated diaphragm Q, substantially as and for the purposes described.

#### No. 18,750. Hydro-Carbon Lamp. (*Lampe à Hydrocarbone.*)

Thomas Walsh, Montreal, Que., 1st March, 1884; 5 years.

*Claim.*—1st. The combination of the pipe F, nozzle H, thimble K and plate L, having opening M, constructed, arranged and operated,

substantially as described. 2nd. The combination of the vessel A stop-cock E, pipe F, nozzle H, thimble K and plate L having opening M, the whole substantially as described. 3rd. The combination of the vessel A having valve N and pipe O, with the pipes D and F, nozzle H, stop-cock K and plate L having opening M, the whole substantially as described.

#### No. 18,751. Rock Drill. (*Foret de Mine.*)

Edwin A. Armstrong, Detroit, Mich., U. S., 1st March, 1884; 5 years.

*Claim.*—1st. In a rock-drill and in combination with the frame A thereof, the cross-head G provided with means for automatically feeding said cross-head within the frame A, substantially as set forth. 2nd. In a rock-drill and in combination with the frame A mounted upon trunnions, substantially as described, the cross-head G actuated by the feed shaft H, which carries a crown ratchet I, which in turn is actuated and engages with pawls Y operated by the lever W, and the wipe V upon the main shaft L, substantially as described. 3rd. In a rock-drill and as a means for controlling the rotation of the drill shaft or bar, the ratchet wheels R, R<sub>1</sub>, provided with spiral and straight splines *k, l*, respectively, which engage with proper channels in the periphery of the drill-bar, substantially as and for the purposes specified. 4th. As a means for regulating or throwing off the feed lever *w*, and in combination therewith, the thumb regulator screw Z, substantially as set forth. 5th. In a rock-drill and in combination with the frame A and tripod E thereof, the trunnions *a*, clip box B, trunnions C and boxes D for securing adjustment to the frame A, substantially as and for the purposes specified. 6th. A tripod for supporting a rock-drill, the legs of which terminate in feet or knees adapted to receive divided balls or spheres for embracing extension legs D<sub>1</sub> and H<sub>1</sub>, substantially as specified. 7th. A rock-drill, wherein the blow of the drill is compelled by the expansion of a coil spring, adapted to be retracted by means of a cam upon the main driving shaft, substantially as described.

#### No. 18,752. Grain Cleaner. (*Nettoyeur des Grains.*)

Elnathan Phelps, Hartford, Mich., U. S., 1st March, 1884; 5 years.

*Claim.*—1st. The herein-described grain-cleaner, consisting of the frame A and vertical shaft B provided with the suction fan D, distributing beater-blades E, brush-frames J, I and J<sub>1</sub>, in combination with the chamber C, perforated casing G, vertical rods F, inclined shelves H, H<sub>1</sub> and air-chambers and discharge spouts, substantially as shown and for the purpose specified. 2nd. The inclined distributing beater-blades E, arranged one above the other, in combination with the vertical rods F, inclined shelves H, H<sub>1</sub> and perforated casing G, substantially as shown and described.

#### No. 18,753. Steam Boiler. (*Chaudière à Vapeur.*)

Patrick Fitzgibbons, Oswego, N. Y., U. S., 1st March, 1884; 5 years.

*Claim.*—In a return flue boiler having a rear end extension with a man-hole in the bottom thereof, a water jacketed combustion chamber constructed of the rear flue sheet and inner water back sheet, having their edges flanged toward the combustion chamber, and their bottom flange rivetted directly to the boiler shell extension, at opposite edges of the man-hole, and the crown sheet extended to, and terminating at said man-hole, and rivetted to the exterior of the flanges of the aforesaid flue-sheet and water-back sheet, and directly to the bottom portion of the boiler shell extension, the whole constructed and combined substantially as described and shown.

#### No. 18,754. Grain Feeder and Band Cutter for Threshing Machines. (*Alimentateur et Tranche-Hart pour Machines à Battre.*)

Orrin C. Van Ness, Pomme de Terre, Minn., U. S., 1st March, 1884; 5 years.

*Claim.*—1st. The combination, with a threshing machine, of a roll B journaled at the feed end of the machine, side pieces C pivoted at one end adjacent to the roll, side pieces C<sub>1</sub> hinged to the other ends of the pivoted side pieces, a roll D journaled at the outer ends of the hinged side pieces, a travelling grain carrier mounted on the rolls, a travelling band-cutter carrier arranged above the delivery end of the