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INVENTIONS PATENTED.

No. 9082. Improvements in Sleighs.

(Perfectionnements dans les traîneaux.)

William Burke and Timothy Horrigan, Syracuse, N.Y., U. S., 5th August, 1878, for 5 years.

Claim.—The combination and arrangement of the cross-bar a rigidly attached to the sleigh, the draft bar c, contiguous thereto, the clips d attached to the latter and loosely embracing the former and provided with set screws e adapted to engage countersinks in the bar a.

No. 9083. Improvements on Shield Pins.

(Perfectionnements aux broches de sûreté.)

Purches Miles, New York, U. S., 5th August, 1878, for 5 years.

Claim.—1st. The shield pin made with a sheet metal guard hook introduced inside of the bent wire, and secured by the metal being bent around the wire, 2nd. The guard for the shield pin made of convex sheet metal, with the edges contiguous to the wire.

No. 9084. Improvement on Vaginal Syringes.

(Perfectionnement aux seringue vaginales.)

Harrison T. Chamberlin, Brockport, N. Y., U. S., 5th August, 1878, for 5 years.

Claim.—The tubular body A having closed sides, provided with the longitudinal grooves or channels c c, and the orifices b b, connecting said channels with the interior, the whole arranged so that the injecting liquid is forced down in currents outside the instrument, in contact with the walls of the vagina.

No. 9085. Improvements in Boiler Furnaces.

(Perfectionnements dans les fourneaux des chaudières.)

Charles F. Hunt, Chicago, Ill., U. S., 5th August, 1878, for 15 years.

Claim.—1st. The tapering passages F F in combination with a movable tile D, which is designed to vary the size of the rear end of the passages. 2nd. The rock shaft J in combination with the arm h, movable tile D, and tapering passage F.

No. 9086. Improvements on Machines for Drilling Rock.

(Perfectionnements aux machines à percer le roc.)

James Sharrman, Stratford, Ont., 5th August, 1878, for 5 years.

Claim.—The combination of the lift or clutch block A, and the drill bar B, with the wedge shaped keys C C, and the spring D.

No. 9087. Water and Fire-proof Coating.

(Enduit imperméable et réfractaire.)

Joseph Bailey, Dawn Mills, Ont., 5th August, 1878, for 5 years.

Claim.—A compound of fine sand, wood ashes, slacked lime, and linsed oil, the whole mixed in the proportions set forth.

No. 9088. Improvements on Ploughs.

(Perfectionnements aux charrues.)

Frank Morningstar, Bertie, Ont., 5th August, 1878, for 5 years.

Claim.—1st. The combination of the pole A, with the hammer strap a a on top, the double frame B, with the adjusting and pin openings c c c and the wheel C, 2nd. In combination with the pole A, wheel C, and frame B, with the adjusting holes c c c, and the coupler D.

No. 9089. Anti-friction Car-axle Box.

(Boîte d'essieu de wagon à anti-friction.)

Levi H. Montross, Simcoe, Ont., 5th August, 1878, for 5 years.

Claim.—1st. The combination of the friction wheels B B (outside of car wheel A) resting upon axle C, having their bearings D D, either revolving around a fixed axle in the casing, or with the axle, it having a journal at each end; 2nd. The casing E extending down to axle C, thus operating as a guide to prevent lateral motion of the car truck; 3rd. The boxing G to retain axle in position against accident, the whole for the purpose of reducing the friction.

No. 9090. Improvements on Wagon Springs.

(Perfectionnements aux ressorts des wagons.)

Calvin J. Holman, Toledo, Ohio, and Griffith C. Griffith, Ashkosh, Wis., U. S., 6th August, 1878, for 5 years.

Claim.—1st. The detachable springs adapted to embrace the standards or stakes of the wagon, and resting upon the bolster thereof, their upper ends supporting the cross bar on which rests the wagon body, 2nd. In combination with the bifurcated semi circular springs provided with hook shaped upper ends, the cross-bar B, provided with links adapted to engage said hooked ends of the springs; 3rd. In combination with the springs having hooked shaped ends for supporting a wagon body the upright curved brackets H secured to the cross-bars which support the wagon body, and adapted to rest upon the hooked ends of the springs; 4th. The combination with the semi-circular springs D, having hooked ends d, of the cross-bars B, having at each end the brackets H, provided with curved upper ends, and the pivoted links K K.

No. 9091. Improvements on Pumps.

(Perfectionnements aux pompes.)

Roscoe Bean, Hudson, Mich., U. S., 6th August, 1878, for 5 years.

Claim.—1st. The combination of the pump cylinder A, discharge pipe B, tube or rod C and the stationary platform flange D, the entire pump proper being adjustably suspended below said platform, 2nd. The cylinder A of the two unequal bores having air chamber C and discharge pipe B opening into the same on opposite diameters, 3rd. In a pump, a force and suction rod I, used as an air chamber, in combination with two buckets J J attached, the upper or force bucket being made about one half the capacity of the lower or suction bucket and the air discharge between the two buckets, 4th. The tube or pipe C when used as an air chamber and support between an unequally sized cylinder A and platform D; 5th. The combination of pump top having standard E and cylinder A of unequal diameter, with tubular air chamber C and discharge pipe B forming connection, 6th. The adjustable handle standard E forked at its lower end terminating in sleeves or sockets d having set screw e, in combination with a pump having upwardly projecting tubes B C or a tube and rod equivalent, 7th. In a pump, a divided plunger rod I I each having one part of a divided plunger J secured on it, with packing p inserted between the two, and the parts screwed together, 8th. The combination of the divided plunger rod I I, the plunger J on the lower end of the rod I, the upper plunger made in two parts m n, secured respectively on the adjacent ends of the two rods, and the packing p clamped between the parts m n by uniting the two parts of the rod.

No. 9092. Improvements on Heat Radiators.

(Perfectionnements aux calorifères rayonnants.)

Rufus Bayers, Halifax, N. S., 6th August, 1878, for 5 years.

Claim.—The combination of the cast iron base A and top B, with wrought iron tubes of two sizes, as C C and D D, the smaller within the larger in such manner as to give a narrow annular water space with thin wrought iron walls on both sides, the tubes and base and top to be secured together by expanding one or both ends of the tubes.

No. 9093. Improvements in Griddle Pans.

(Perfectionnements dans les casseroles à gâteaux.)

William T. Neate, Georgetown, Ont., 6th August, 1878, for 5 years.

Claim.—A griddle pan A, provided with a flange B and ribs C and D, in combination with a plate E, having cake cups F and hinged to the rib C.

No. 9094. Improvements on Whips.

(Perfectionnements aux fouets.)

Frank Hopkins, Helena, Montana, U. S., 6th August 1878 for 5 years.

Claim.—1st. The combination with a whip stock, of a ferrule provided at its outer end with a socket for holding a swivel eye; 2nd. The swivel eye