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CONTENTS.

INVENTIONS PATENTED.

No. 7673. Improvement in Halter Fastenings.

(Perfectionnement des ferrures de licous.)

John C. Dillon Amherst, Mass., U. S., 18th July, 1877, for 5 years.

Claim.—1st. The crescent-shaped coupler A, both with the shank S projecting laterally from its outer perimeter and perpendicularly from its inner perimeter for use with a ring or rings; 2nd. The coupling ring C bent upward on the chord of its arc and adapted for use with the coupler A; 3rd. The combination of the straight shanked coupler A, the long link B and a plain ring C or the coupling ring C bent upward on the chord of its arc; 4th. The combination of the coupler A having a shank perpendicular to its periphery and a plain ring C.

No. 7674. Improvements on Shoe Lasts.

(Perfectionnements aux formes de chaussures.)

Samuel J. Parsons, (Assignee of John T. Poole), Benton, N. B., 18th July, 1877, for 5 years.

Claim.—In combination with the last A having locking plate E, the block B having hooked plate I barbed crank detent L locking with opposite edges of the plate E and a spring N.

No. 7675. System for Regulating the Continual Supply of Purified Water and Continual Discharge of Refuse Water.

(Système de règlement de l'alimentation continue de l'eau pure, et de l'écoulement continu des eaux sales.)

Harry R. Newton, London, Eng., 18th July 1877, for 5 years.

Claim.—1st. The locking apparatus for regulating a constant measured small or large, supply of filtered water to be delivered into existing cisterns or other reservoirs *a* by a new system, into closed tanks. 2nd. The use and application of the apparatus for the combined sanitary objects, for supplying and regulating water, filtered or unfiltered to houses and in locking or fastening apparatus therefor, and for discharging and separating waste and surface waters from houses and lands, and in the construction of drains sewers, and connections therefor, parts of all of which methods of construction and apparatus are applicable to other useful purposes.

No. 7676. Method of Cutting Stone.

(Méthode de tailler la pierre.)

Benjamin C. Tilghman, Philadelphia, Pa., U.S., 25th July, 1877 (Re-issue of Patent No. 2620), for 10 years and 6 months.

Claim.—1st. The use of grains or globules made of iron or cast iron or steel, or their alloys subdivided while melted in the process of cutting sawing, boring and grinding stone glass, pottery and similar hard substances 2nd. The use of grains or globules made of iron or cast iron or steel or their alloys, subdivided while melted, and of rounded or spheroidal shape so as to operate, by a rolling crush, in the process of cutting sawing boring and grinding stone, glass, pottery and similar hard substances. 3rd. The use of grains or globules made of iron or cast iron or steel or their alloys and chill hardened by cooling from a melted stated, in the process of cutting, sawing boring and grinding stone, glass pottery and similar hard substances, 4th. The use of alkaline water in cutting, sawing, boring and grinding of stone glass, pottery and similar hard substances by grains or globules of iron or cast iron, or steel, or their alloys, 5th. The use of notched blades for frame saws in sawing stone and similar hard substances with grains or globules of iron or cast iron, or steel, or their alloys.

No. 7677. Improvements on the Manufacture of Gas. *(Perfectionnements dans la production du gaz.)*

Myron H. Strong, Brooklyn, N. Y., U. S., 25th July, 1877, for 5 years.

Claim.—1st. Heating steam to a high temperature and bringing the steam into contact with carbonaceous material, supplied gradually or in detail into a retort and passing the two together down through the heated retort, and then completing the process and fixing the resulting gases by passing such gases through a bed of incandescent carbon; 2nd. The compound retort with two vertical chambers *a b* separated by a partition wall *c*, and the whole enclosed in one casing, the retort *a* having a filling of fire-brick or similar material, in combination with means for supplying steam at the lower end of the chamber *a* and for supplying carbon gradually or in detail at the upper ends of the chamber *b*, and a fire bed at the bottom of such chamber *b*, 3rd. The retort *b* having a fire bed *f* at the bottom, the superheating retort *a* and the carburetting chamber *r*, *n* combination with the steam supply pipe *m*, the connection from the retort *a* to the retort *b*, the gradual fuel supply apparatus at the top of the chambers *b* the enclosing casing and the gas delivery tube connected to the third chamber and the fire bed.

No. 7678. Improvements in Tobacco Cutters.

(Perfectionnements aux coupe-tabac.)

Michael McGinn, Hamilton, Ont., 25th July, 1877, for 5 years.

Claim.—1st. The combination with the bed plate A the knife frame C and provided with vertical slots F F, friction roller K; 2nd. In combination with a tobacco cutter of the slot H in the knife G into which the roller K operates, for removing the knife horizontally, the said knife operated by an L shaped handle attached, 3rd In combination with a tobacco cutter, of the spring L, guage N, projection O, head plate P.

No. 7679. Improvements on Carpet Sweepers.

(Perfectionnements aux balayeuses de tapisserie.)

Alonzo S. Hinkley Buffalo, N. Y., U. S., (Assignee of Jonas Hinkley), 25th July, 1877, for 5 years.

Claim.—1st. The side pressure wheels E E E E and F F, in combination with the shafts E^1 E^2 E^3 E^4 and F^1 F^2, springs X X and brush R when used in the manner specified; 2nd. The self-adjusting brush pan G, in combination with the brush R and box A, when operating together, 3rd. The ribs *z z* and leather facing U U, in combination with the loose pan G, carrying the brush R; 4th. The pan G when composed of the heads J J, sides S S, bottom Q Q and circular pieces T T, in combination substantially as set forth; 5th The brush R, leather washers V V, heads J J having opening L and circular pieces T T in combination substantially as set forth; 6th. The box A handle C, wheels E E E E and F F, pan G and brush R, in combination substantially as specified.

No. 7680. Improvements on Turbine Wheels.

(Perfectionnements aux turbines hydrauliques.)

Titus H. Russell and Samuel E. McCully, Windsor Mills, Que., 25th July, 1877, for 5 years.

Claim.—1st. The wheel case A and gate 3, constructed with upwardly tapering peripheral walls, the latter adjustable vertically, said gate having water tight contact with peripheral walls of shell, 2nd. In combination with the wheel case A, the rotative cam ring 7 for adjusting the altitude of the gate; 3rd. The combination with the case A, and gate 3 having lugs 11, of the cam ring 7 and outer ring 14, for adjusting the gate rotatively and vertically, 4th The head block 25 having an adjusting screw 24, in combination with the spindle 20 collar 26 and chamfered shaft 19, for compensating frictional wear of the step 23, 5th In combination with the gate 3 the winged chutes 18, having self-adjusting action pivoted between the flanges 2 of the shell A, 6th The wheel C constructed with a peripheral concavity 5 at its base below the entrance of the buckets 4 to form curvilinear throats 7th The step 23 composed of two pieces, one of soft and the other of the hardest steel for diminishing friction.

No. 7681. Improvements on Oil Cans.

(Perfectionnements aux bidons à huile.)

John Graves, New York, U.S., 25th July, 1877, for 5 years.

Claim.—1st A case for packing oil cans for transportation, consisting of an inner section A¹ attached by top cross strips to can of a detachable outer