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INVENTIONS PATENTED.

No. 16,054. Improvements on Farm Gates. (*Perfectionnements aux barrières.*)

Ira W. Fidler, Mount Pleasant, Iowa, U. S., 2nd January, 1882; for 5 years.

Claim.—1st. The combination, with a sliding gate A, uprights B B and operating levers E E, of the toggle-lever composed of pivoted rod G and pivoted diverging bars F F, and the arms // connected together and curved or bent and pivotally connected to said diverging bars and operating levers. 2nd. The combination, with a sliding gate A, uprights B B and toggle-lever connecting said gate and uprights, of operating levers E E weighted at their inner ends and suitably connected to said toggle-lever.

No. 16,055. Improvements on Heating Apparatus. (*Perfectionnements aux calorifères.*)

Etienne Boucher, Sherbrooke, Que., 2nd January, 1883; for 5 years.

Claim.—The combination of the sides A provided with lugs F, the rear end B and the furnace front B' furnished with lugs and provided with a door and door frame grate D, drawer E, the drum G provided with inlet and outlet apertures at b and manhole a.

No. 16,056. Improvements on Dynamo or Magneto Electric Machines. (*Perfectionnements aux machines électro-dynamiques ou magnétiques.*)

William Hochhausen, New York, N. Y., U. S., 2nd January, 1883; for 5 years.

Claim.—1st. The combination, with a Pacinotti or ring armature and its collector brushes applied to the commutator cylinder upon the line joining the field of force poles, of addition contact points, surfaces, or brushes to cut out or short circuit those bobbins of the revolving armature which, in the revolution of the armature, are entering beneath the field of force poles and approaching the line upon which the current is taken from the machine. 2nd. A sectional armature adapted to be taken apart, to allow of the removal of its bobbins, constructed of a number of parallel curved or segmental shaped plates, the plates of adjoining sections being arranged to overlap one another at their ends and secured together by removable bolts or rods. 3rd. The combination of two or more sections of parallel segmental shaped plates overlapping one another at the ends of adjoining sections, insulating or non-magnetic material interposed between the poles at their overlapping portions, and bolts or rods of non-magnetic material for securing the plates together with the insulating material between them. 4th. An armature carrier constructed in sections, each consisting of a number of parallel curved, or segmental shaped plates magnetically insulated from one another and from the plates of the adjoining section. 5th. An armature carrier constructed of a number of parallel plates F shaped in cross section and disposed in the manner described.

No. 16,057. Improvements on Stove Pipe Dampers. (*Perfectionnements aux clés des tuyaux de poêle.*)

Levi Berger and William H. Berger, Camden, N. J., U. S., 2nd January, 1883; for 5 years.

Claim.—1st. A damper comprising a metal disk with a radial slot for the reception of a key, wedge or handle, said slot being open

throughout, whereby its sides may be sprung apart and which tend to contract upon such key wedge or handle. 2nd. The combination of a disk A having a radial slot B, and a key or wedge c inserted therein and held in place by the contractile tendency of the metal of the disk. 3rd. The disk A having radial slot B with flanges b b on each side thereof. 4th. The disk A having radial slot B with longitudinal ribbed sides. 5th. The disk A having a radial slot B and projections b b on either sides thereof projecting beyond the edge of said disk. 6th. The key or wedge C having a shank with longitudinally grooved sides and a handle c'. 7th. The combination of a radially slotted disk and a longitudinally grooved key or wedge. 8th. The combination, with a slotted disk A, of a key or wedge radially adjustable therein so as to vary the pressure or friction between said parts and an interposed stove pipe.

No. 16,058. Improvements in Lead Traps or Cesspools. (*Perfectionnements aux puisards d'aisance.*)

Alexander Chapman, Montreal, Que., 2nd January, 1883; for 5 years.

Claim.—1st. In a lead trap made up of separate inlet intermediate and discharge pipes and separate caps covering the bends, their meeting edges being joined together edge to edge without overlapping, and joined lead to lead without solder. 2nd. The method of closing the joints of traps made up of sections by burning said joints and joining lead to lead upon a metallic or non-combustible gaging.

No. 16,059. Improvements on Snow Ploughs. (*Perfectionnements aux charrires à neige.*)

Eric M. Hesselbom, Rushford, Min., U. S., 2nd January, 1883; for 5 years.

Claim.—1st. The combination, in a snow plough having two chutes F G H, whose exterior sides H flare outwardly from the bottom upward, of hinged sections I to the sides H. 2nd. The combination, in a snow plough having two chutes F G H, whose exterior sides H flare outwardly from the bottom upward, of jointed sections I to the sides H, and adjusting screws rods M connecting said sections I with support a. 3rd. The combination, with the chutes F G H, of the hinged sections I provided with the pieces // hinged to its upper end, the screw rods M and the arms N. 4th. The combination with chutes F G H, of guards P hinged to the top plate Q. 5th. The combination, with the chutes F G H and the top plate Q, of the hinged guards P, the rod S and staples F. 6th. The combination of two divergent chutes F G H and wings W, jointed at the ends of the chutes and having the operating slider Z, and connecting rods Y. 7th. The combination of two divergent chutes F G H, wings W, jointed at the ends of the chutes, adjusting slider Z, connecting rods Y and adjusting screw d. 8th. The combination of detachable braces f with the wings W, adjusting slider Z, connecting rods Y and screw d.

No. 16,060. Improvements in Roofing Cement. (*Perfectionnements dans le ciment à toitures.*)

William L. Mackby, Montreal, Que., 2nd January, 1883; for 5 years.

Claim.—A roofing cement or paint composed of powdered mica and limestone, mixed with coal tar, or other liquid bituminous substance.

No. 16,061. Improvements on Lanterns. (*Perfectionnements aux lanternes.*)

George C. Efield, Danforth, Me., U. S., 2nd January, 1883; for 5 years.

Claim.—1st. In a tubular lantern, the combination of the tube A parted in its lower horizontal sections a with the supporting wire C. 2nd. The combination of the lamp B provided with short horizontal tubes b, and the tubes A carrying the globe G matching the horizontal sections a of the tubes A with the horizontal tubes b. 3rd. The combination, with the lamp B, of the tubes A carrying the globe G, and the bent wire C attached to the tubes A and hinged to standards D projecting from the top of the lamp. 4th. The combination, with the lamp B, of the tubes A, the hinge wire C, the circularly bent wire E and the latch F. 5th. The combination, with the lamp B, of the