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INVENTIONS PATENTED.

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

No. 33,548. Drive Point for Driven Wells.

(*Sonde de puits artésien.*)

William A. Royce, Newburg, N.Y., U.S., 1st February, 1890; 5 years.

Claim.—As a new article of manufacture, a drive point for a driven well, comprising a tube, enameled both internally and externally, and provided with perforations arranged in rows, the perforations of one row being intermediate of the perforations of the next adjacent row or rows and opposite those of another row, and all said perforations having rounded or curved internal and external edges, substantially as specified.

No. 33,549. Street Letter Box.

(*Boîte à lettres de rue.*)

George P. Bliss, Winnipeg, Man., 1st February, 1890; 5 years.

Claim.—1st. The combination, with the body or shell of a street letter box or equivalent device, of an interior receptacle pivoted therein, having an open top and a hinged drop bottom, substantially as and for the purpose hereinbefore set forth. 2nd. The combination, with the body or shell of a street letter box or similar receptacle, having an opening in its front, of a receptacle pivoted within the said body, constituting a portion of the front of the body, and provided with an open top and a hinged drop bottom, substantially as and for the purpose specified. 3rd. The combination, with the body or shell of a street letter box, or similar device, of a receptacle opening therein, having its front face exposed and provided with an inner hinge held to revolve within the receptacle provided with an attached ratchet wheel, a propelling spring attached to the front face of the receptacle, capable of contact with the said ratchet wheel and as and for the purpose set forth. 4th. In a street letter box or similar device, the combination, with a body or shell having an opening therein, the front face whereof constitutes a portion of the front face of the body, the said front face of the receptacle being provided with an opening at or near its top, of a drum held to revolve within the receptacle opposite the front opening and provided with an attached ratchet wheel, a propelling spring vertically attached to the inner face of the receptacle at one end, and capable of contact with the ratchet wheel at its opposite end, and a horizontal retaining spring also contacting with the said ratchet wheel, substantially as and for the purpose set forth.

No. 33,550. Drying Rack.

(*Séchoir.*)

George R. Carr, Lockport, N.Y., U.S., 1st February, 1890; 5 years.

Claim.—In a drying rack, the standard C provided with the vertically adjustable extension D and the collar E, and clamping screw E vertically adjustable head F mounted upon the extension D, the rotatable bracket G mounted upon the head F, and provided with radial slots g, having adjustable arms H mounted therein, the pulley I in the upper end of the extension D, the pulley J secured to the adjustable head E, and elevating cord k passing over said pulleys and secured at one end to the extension D, all constructed, arranged and operating, substantially as shown and described.

No. 33,551. Check Rein Turret Guide.

(*Guide-crochet de fausses-rènes.*)

William A. Brock, London, Ont., 1st February, 1890; 5 years.

Claim.—The swinging link I and the guide G, in combination with a turret rim D, having a foot or base D', substantially as and for the purpose set forth.

No. 33,552. Steam Boiler.

(*Chaudière à vapeur.*)

William Cowles, Brooklyn, N.Y., U.S., 1st February, 1890; 5 years.

Claim.—1st. In a steam boiler, the combination, with horizontal water and steam drums, and vertical or substantially vertical circulating tubes connecting said drums, of the shell A, communicating with said drums and forming with the steam drum a steam chamber C, substantially as described. 2nd. In a steam boiler, the combination, with horizontal water and steam drums, of vertical, or substantially vertical, circulating tubes connecting said drums and located in rows, with space between adjacent rows for the removal and insertion of any one tube without disturbing any of the others, and the shell A communicating with said drums and forming with the steam drum a steam chamber C, substantially as described. 3rd. In a steam boiler, the combination, with horizontal water and steam drums, and vertical or substantially vertical circulating tubes connecting said drums of the shell A communicating directly with said steam drum and forming a steam chamber C, and with said water drum or drums by a water leg or legs, substantially as described. 4th. In a steam boiler, the combination, with horizontal water and steam drums, of vertical, or substantially vertical, circulating tubes connecting said drums and located in rows, with space between adjacent rows for the removal and insertion of any one tube without disturbing any of the others, the shell A communicating directly with said steam drum, and forming a steam chamber C, and communicating also with said water drum or drums by a water leg or legs, substantially as described. 5th. The combination, with the steam drum F and the steam chamber C, of the baffle plate y for directing the steam and water downward from the mouth of the steam drum, substantially as described. 6th. The combination, with the water drum or drums and the vertical, or substantially vertical, circulating tubes G, of the baffle plate or plates u for arresting the sediment in the water drum or drums, substantially as described. 7th. The combination, with the horizontal steam and water drums, and the vertical, or substantially vertical, circulating tubes G, of the shell A, the water leg or legs and the feed water pipe or pipes l entering said water leg or legs, substantially as described. 8th. The combination, with the horizontal water and steam drums, and the vertical, or substantially vertical, circulating tubes, of the casing D enclosing the same, and the horizontal deflector H, substantially as described. 9th. The combination, with the horizontal water and steam drums, and the vertical, or substantially vertical, circulating tubes, of the casing D enclosing the same, and the vertical deflector I, substantially as described. 10th. The combination, with the horizontal water and steam drums, and the vertical, or substantially vertical, circulating tubes G, of the casing D enclosing the same, the horizontal deflector H, and the vertical deflector I, substantially as described. 11th. The combination, with the water drum or drums, and the baffle plate or plates u for arresting the sediment in the water drum or drums, and the blow-off pipe or pipes, substantially as described.

No. 33,553. Sash Lock.

(*Fermeture de croisée.*)

John M. Kirby, St. Thomas, Ont., 1st February, 1890; 5 years.

Claim.—The combination of the rack A and the pinion B with a drop, or the spring stop c, substantially as and for the purpose hereinbefore set forth.

No. 33,554. Combination of Dust Pan and Broom Protector.

(*Combinaison de pelle à main et de serre-balai.*)

John A. Gardner, Toronto, Ont., 1st February, 1890; 5 years.

Claim.—In a dust pan and broom protector, the parts a, b, c, formed and united substantially as and for the purpose hereinbefore set forth.

No. 33,555. Railroad Frog.

(*Rail de croisement.*)

Frederick J. Hoyt, Chicago, Ill., U.S., 4th February, 1890; 15 years.

Claim.—1st. In combination with the rails of a main and side track, a sliding frog, consisting of a tongued plate, provided with a