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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. 23,963. Swimming Apparatus.

(Appareil de Natation.)

William J. Corbett, Tucson, Arizona, U.S., 3rd May, 1886; 5 years.

*Claim.*—1st. The combination, in a swimming apparatus, of a support, a toe-blade pivoted at its inner edge to the support at a point back from the inner edge thereof, and a feathering web having one edge secured to the outer edge of the toe-blade, and its opposite edge secured to the toe end of the support, all arranged and operating substantially as and for the purposes specified. 2nd. In a swimming apparatus, the combination of the support provided with a staple C, of the blade frame, consisting of rods B engaged at their inner ends with staple C, and the web covering apparatus, comprising a support, a double armed frame projected rearwardly from said support, as described, and a blade pivoted to one of and adjustable to and from the other of such arms, substantially as set forth.

#### No. 23,964. Trolling Bait. (Amorce de Trole.)

William D. Chapman, Theresa, N.Y., U.S., 3rd May, 1886, 5 years.

*Claim.*—1st. In a trolling-bait, the combination of the rod, having the line, swivel and hook attached to its ends, the sleeve having strips secured to it to form the outlines of a fish, and propeller-shaped wings secured upon the sleeve in the wider portion of the outlines of the fish, and having their concave faces facing forward, as and for the purposes shown and set forth. 2nd. In a trolling-bait, the combination of the rod, formed with eyes at its ends, for the attachment of the line and the hook, and having the side hook attached to the forward eye, the sleeve turning upon the said rod, the strips secured to the sleeve with the edges of their forward ends oblique to the axis twisted and bulged to form a bulge near their forward ends, and secured at their rear ends to the sleeve, as described, and the propeller-shaped wings secured in an inclined position upon the sleeve in the space between the bulges of the strips, and having the concave forwardly facing sides striped in bright colors, as and for the purpose shown and set forth.

#### No. 23,965. Rotary Escape Movement for Clocks, etc. (Echappement Rotatoire pour Horloges, etc.)

William D. Chapman, Theresa, N.Y., U.S., 3rd May, 1886, 5 years.

*Claim.*—1st. In a revolving escape movement, consisting of a lever M, having a slot I concentric with the pivot J, and two corresponding slots V V', at right angles thereto in opposite directions, so as to form corresponding shoulders c, e, in the slot I, in combination with the crank L, substantially as herein described. 2nd. In combination with the revolving escape mechanism herein described, consisting of a crank L, slotted lever M vibrating on a pivot J centrally, the intermediate lever P and flexible strap D adapted to be used in a horizontal reciprocating movement in clocks and watches, substantially as herein set forth.

#### No. 23,966. Car Ventilator. (Ventilateur de Char.)

Ebenezer S. Perry, New Bedford, Mass., U.S., 3rd May, 1886; 5 years.

*Claim.*—1st. In a ventilator, the combination, with the base pro-

vided with openings c, one above the other, of the slats a attached at one edge to the upper edge of the openings c, and extending outwardly at an angle to the base A, the slats a attached to the lower edges of the openings c, and the sides e at each end of the slats a, substantially as described. 2nd. In a ventilator, the combination, with the base A, having openings c, one above the other, of the slats a attached at one edge to the upper edge of the openings, and extending outwardly at an angle to the base A, the slats a attached to slats a, so as to form an angle therewith, the slats b attached to the lower edges of the openings c, and the sides e at each end of the slats a, provided with openings d, substantially as described. 3rd. In a ventilator, the combination, with the base A, having openings c, one above the other, of the slats a attached at one edge to the upper edge of the openings c, and extending outwardly at an angle to the base A, the slats a attached to slats a at an angle thereto, the slats d attached to the base A and to the under side of slat b and the sides e at each end of the slat a, substantially as described.

#### No. 23,967. Carriage Bow Slat.

(Branche de Capote de Voiture.)

Josiah W. Sherwood and John W. Sherwood, Grand Rapids, Mich., U.S., 3rd May, 1886; 5 years.

*Claim.*—1st. In a carriage bow slat, the combination, with the slat-iron, of two or more separate and independent pieces of veneer, one of which is arranged with its grain running circumferentially of the slat, so that the latter is encircled by continuous fibres, and the splitting of the slat by the slat-iron prevented, substantially as set forth. 2nd. In a carriage bow slat, the combination, with the slat-iron, of two or more separate and independent pieces of veneer, arranged with their grain running spirally in opposite directions, substantially as set forth. 3rd. In a carriage bow slat, the combination, with the slat iron, of the core C and a covering veneer having its grain running around said core, so that the latter is encircled by continuous fibres, substantially as set forth. 4th. In a carriage bow slat, the combination of a tapering tube, a slat-iron having a circumferentially ribbed extension inserted in the smaller end of said tube, and a cement filling of a conical form situated in the tapering tube and surrounding said ribbed extension, substantially as set forth.

#### No. 23,968. Locomotive Boiler.

(Chaudière de Locomotive.)

Charles B. Coventry, Chicago, Ill., U.S., 3rd May, 1886, 5 years.

*Claim.*—1st. In a locomotive boiler, provided with heating flues and with continuous return or superheating flues, which open directly and from but one direction into a smoke-chamber D extended over the fire-box, a supplemental crown-sheet over the fire-box, to the forward end of which crown-sheet the upper rear segment of the flue-sheet is attached or fastened, all arranged in one boiler or shell, substantially as described. 2nd. In a locomotive boiler, provided with heating flues and with continuous return or superheating flues, which open directly and from but one direction into a smoke-chamber D extended over the fire-box, a supplemental crown-sheet over the fire-box to the forward end of which crown-sheet the upper rear segment of the flue-sheet is attached or fastened, connected to the crown-sheet proper by stay bolts, all arranged in one boiler or shell, substantially as described. 4th. In a locomotive boiler, a segment of flue-sheet located substantially over the front end of the fire-box in which the rear ends of the return-flues terminate, and which forms the forward end of the smoke-chamber D extended over the fire-box, substantially as described.

#### No. 23,969. Fire Pot, or Fire Back for Stoves, etc. (Boîte à Feu pour Poêles, etc.)

Thomas G. Wantless, Parkdale, Ont., 3rd May, 1886; 5 years.