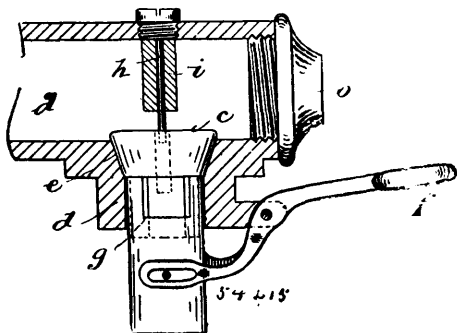
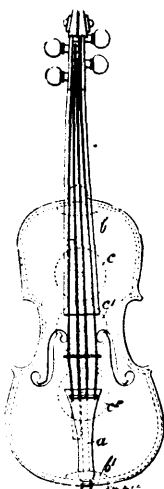


valve seat and valve therefor, the latter being normally closed by the pressure of the liquid behind it, and means for opening the said



valve, substantially as shown and described. 2nd. A cock consisting of a body portion having a self-closing valve suitably mounted therein, in combination with a screw-threaded cap for removably closing the outer end of said body portion, substantially as shown and described. 3rd. A self-closing cock having a screw cap *b* for closing its outer end, the valve *c*, carried by the pipe *d* having openings *g*, the guide-pin *h*, and the lever *f*, all arranged and adapted to operate substantially as described.

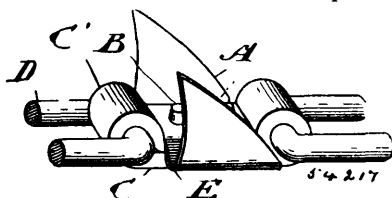
No. 54,216. Violin and the like. (Violon.)



William McKenzie and Walter William Rising, both of 54 Lambton Quay, Wellington, New Zealand, 1st December, 1896; 6 years. (Filed 16th June, 1896.)

Claim.—1st. A violin or the like having glass discs supported within it, substantially as described herein and illustrated. 2nd. A violin or the like having discs or plates of any suitable material supported within it, substantially as and for the purposes described herein and illustrated on the accompanying drawings. 3rd. A violin or the like having discs or plates of any suitable material, size, and number, arranged upon a bar or bars within the body of the instrument, substantially as and for the purposes set forth.

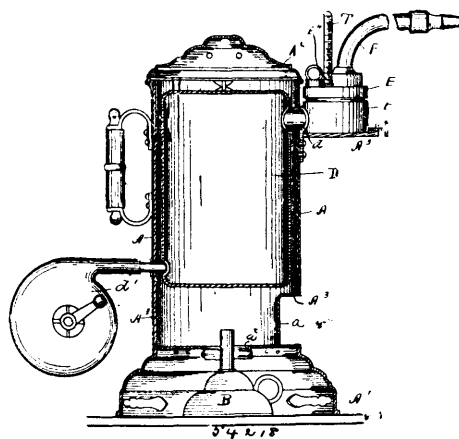
No. 54,217. Log-Chain. (Chaine à billots pour scieries.)



Peter Payette, Penetanguishene, Ontario, Canada, 1st December, 1896; 6 years. (Filed 17th June, 1896.)

Claim.—1st. In a log-chain, the combination of the flat link *C*, provided with sleeve *C*¹; the bunk *A*, shaped as indicated, overlapping the flat link *C*, and provided with half circle *E*; and the rivets *B*, substantially as described and for the purpose specified. 2nd. In a log-chain, the combination of the flat link *C*, provided with rounded sleeve *C*¹; the round link *D*; the bunk *A*, shaped as indicated, overlapping the flat link *C*, and provided with downwardly projecting half circle *E*, and the rivets *B*, substantially as described and for the purpose specified.

No. 54,218. Inhaler. (Inhalateur.)



George Brown Underwood, assignee of Virgil Warren Blanchard, both of New York, State of New York, U.S.A., 1st December, 1896; 6 years. (Filed 28th September, 1896.)

Claim.—1st. In an apparatus for preparing medicated vapours for inhalation, the combination of means for heating air, a moistened wad of fibrous non-heat-conducting material containing the medicines to be volatilized, and a perforated shell or holder inclosing said wad placed in the path of the air currents between the air heater and the inhaling tube, the air currents circulating around but not in said holder, substantially as described. 2nd. In an apparatus for administering medicated vapours, the combination of means for heating air, and a tube for conducting air to the mouth or nostrils; and a closed chamber interposed between the tube and air heater; with a wad of non-heat-conducting absorbent material in which the medicament is placed, a perforated shell or inclosure containing said wad, said shell being placed in said chamber, so that the air currents circulate around but not directly in said shell whereby the medicament is indirectly exposed to the heated air current and volatilization thereof gradually effected, substantially as and for the purpose specified. 3rd. In an inhaler the combination of an air heater, the inhaling tube, and a hot air chamber interposed between the heater and said tube, with a perforated shell for holding medicines suspended in said chamber, so that the medicines are vaporized by the heat instead of contact with air currents, substantially as described. 4th. In an inhaler the combination of an air heater, the inhaling tube, and a hot air chamber interposed between the heater and said tube, with a perforated shell for holding medicines suspended in said chamber, and a wad of fibrous non-heat-conducting packing in said shell, whereby the medicines are vaporized by heat instead of contact with air, substantially as described. 5th. In an inhaler the combination of an air heater, the inhaling tube, and a hot air chamber interposed between the heater and said tube, with a perforated shell for holding medicines suspended in said chamber, and a tube suspended in said shell, substantially as described. 6th. In an inhaler the combination of an air heater, the inhaling tube, and a hot air chamber interposed between the heater and said tube, with a perforated shell for holding medicines suspended in said chamber, and a wad of fibrous non-heat-conducting packing in said shell, and a tube in the shell above the wad, substantially as described. 7th. In an inhaler the combination of an air heater, the inhaling tube, and a hot air chamber interposed between the heater and said tube, with a perforated shell for holding medicines suspended in said chamber, whereby the medicines are vaporized by heat instead of contact with air and a gas mixer in said chamber, substantially as described. 8th. In an inhaler the combination of the casing, the heating drum suspended therein, means for heating said drum, a chamber attached to the casing communicating with the upper end of the said drum, the inhaling tube connected to said chamber, and the vaporizer *I* consisting of shell *I*, tube *i*, and wad *J*, all substantially as described. 9th. The perforated shell *I* in combination with the fibrous wad *J* and the tube *i*, substantially as and for the purposes specified. 10th. The air heating drum *D*, the inclosing non-conducting heat layer and casing, in combination with the chamber *E*, the removable perforated shell *I* and its cap substantially as and for the purposes set forth. 11th. In an inhaler the combination of the casing, the heating drum suspended therein, means for heating said drum, a chamber attached to the casing communicating with the upper end of said drum; the inhaling tube connected to said chamber and the vaporizer *I* consisting of shell *I*, tube *i* and wad *J*, substantially as described, and the screens *H*, in said chamber all substantially as described. 12th. In an inhaler the combination of the casing, the heating drum suspended therein, means for heating said drum, a chamber attached to the casing communicating with the upper end of said drum, the inhaling tube connected to said chamber and the vaporizer *I* constructed substantially as described, and the screens *H*, in said chamber, and a device for forcing air into said drum and the thermometer in said chamber, substantially as described.