

movable distributing pipes, arranged within the tank, a hydraulic cylinder or cylinders connected to said pipes to operate the same, and an automatic valve mechanism, controlling said cylinder or cylinders, substantially as and for the purposes specified. 4th. In a water filter, the filter tank, in combination with a vertically movable distributor, provided with radial distributing arms, perforated, as described, arranged within the tank, and actuating devices, whereby said distributor may be moved up and down through the filter bed, the filter bed and at the same time rotated or oscillated to wash the filter bed without removing the same from the tank, substantially as and for the purposes specified. 5th. In a water filter, the combination, with the filter tank, of the distributor G, H, the hydraulic cylinder and piston F, F¹, and the supplementary stationary wash pipes E¹, substantially as and for the purposes specified. 6th. In a water filter, the combination, with the filter tank A, of the inlet pipe E¹, provided with either a spiral or serpentine spline e¹, the hub G, having a groove g to receive said spline, the radial arms H connected to the hub, and a device to move the hub up and down on the inlet pipe, substantially as and for the purposes specified. 7th. In a water filter, the combination, with the filter tank A, of the hydraulic cylinder and piston F, F¹, the distributor G, H, connected to said piston, and an indicator I connected to the piston and arranged to show the position of the distributor in the tank, substantially as and for the purposes specified. 8th. In a water filter, the combination, with the filter tank A, of the vertically movable distributor, the hydraulic cylinder and piston F, F¹, the pipes F³, F⁴, the cylinder supply pipe F², and a valve J to turn the pressure fluid from the pipe F², into either of the pipes F³, F⁴, substantially as and for the purposes specified. 9th. In a water filter, the combination, with the valve case I, of the pipes F³, F⁴, connecting with said case, a valve J controlling the connections of the pipes F³ and F⁴, with the case, the vertically movable distributor G, H, within the tank, the hydraulic cylinder, and piston F, F¹, and a valve shifting device for the valve J, operated automatically by the movement of the piston F¹, substantially as and for the purposes specified. 10th. In a water filter, the combination, with the double walled valve case I, having the inner partitions F⁵, F⁶, and ports F⁷, F⁸, F⁹, of the sliding valve J, having the two valve disks j¹, j², the water pressure supply pipe F², the pipes F³ and F⁴, connecting the valve case with the respective ends of the hydraulic cylinder, the cylinder and piston F, F¹, the water distributor within the tank and connected to the piston F¹, and the waste pipe F⁵, substantially as and for the purposes specified. 11th. In a water filter, the combination, with the hydraulic cylinder F, of the piston F¹, to which the water distributor within the tank is connected, the weight L, also connected to the said piston, the lever M, provided with the projections m, m¹, valve J connected to said lever valve case I, water pressure supply pipe F², and pipes F³, F⁴, connecting said case with the cylinder F, substantially as and for the purposes specified. 12th. In a water filter, the combination, with the collector C, of the strainers D, each consisting of a slotted tube or cage d, d¹, d², a spiral spring D¹ coiled around the exterior of said tube, an adjustable sleeve D², and a bearing cap D³, substantially as and for the purposes specified. 13th. In a water filter, the combination, with the filter tank, of one or more vertically movable cylinders, provided with perforated delivery pipes within the tank, a beam to which the upper ends of each pair of cylinders are connected, and two hydraulic cylinders for each beam mounted on the side of the filter tank, and having their piston rods connected to the respective ends of the beam, substantially as and for the purposes specified. 14th. In a water filter, the combination, with the filter tank, of vertically movable cylinders arranged in pairs and provided with perforated delivery pipes within the tank, a beam to which the upper ends of each pair of cylinders are connected, and two hydraulic cylinders for each beam mounted on the side of the filter tank, and having their piston rods connected to the respective ends of the beam, substantially as and for the purposes specified. 15th. In a water filter, the combination with the distributing cylinders and the operating beam to which they are pivoted, of hydraulic cylinders for operating said beam, and equalizing mechanism, substantially as described, connected with the beam and adapted to regulate the action of the cylinders, substantially as and for the purposes specified.

No. 35,167. Game. (Jeu.)

Alfred Cousen, Detroit, Michigan, U.S.A., 10th October, 1890; 5 years.

Claim.—1st. A game, comprising a bat, consisting of the handle A, ring B and heads C, C¹, and darts comprising a body E, and feathers H, arranged at different angles to said body, substantially as described. 2nd. A game, comprising a bat, consisting of the handle A, ring B, heads C, C¹, bells D, and darts, consisting of the body E, having the rounded base, the flat top G, the feathers H, arranged in said top at different angles, whereby a gyrating motion is given to the dart, substantially as described.

No. 35,168. Curry Comb. (Etrille.)

John Henry Stapleton, Detroit, Michigan, U.S.A., 10th October, 1890; 5 years.

Claim.—1st. In a curry comb, composed of a back formed of sheet metal, with flanged edges, two central blades formed of a single piece of sheet metal, with a base extending under the flanges on the edge of the back and clamped thereby, and intermediately fastened to the back by having flanges formed at their base, of sheet metal secured to the back by flanges on the edge of the back, and having their ends united to the ends of the inner blades, substantially as described. 2nd. A curry comb, composed of a sheet metal back A, having flanged edges C, two H, clamped at the ends under one piece of sheet metal, with a base secured to the back by intermediate rivets E, and two outer curved blades B, B¹, of sheet metal provided with flanges I, at their base, secured by clamping under the flanged edges of the back, and riveted together at their ends with the ends of the central blades, and the apertures G in the ends of the pockets formed between the central and outer blades, substantially as described.

No. 35,169. Door Bell Mechanism.

(Mécanisme pour timbres de porte.)

Albert F. Rockwell, Bristol, Connecticut, U. S. A., 10th October, 1890; 15 years.

Claim.—The combination, with a door, of a door-bell mechanism, provided with a lever for winding up the main spring of the door bell mechanism, and two springs O and R, each connected to the lever, and a pull-wire P, connected to the door, whereby the opening of the door will wind the main spring, and its closing will be caused by the recoil of the springs, all the parts being arranged and operating substantially as set forth.

No. 35,170. Method of Burning Gas Tar and other Liquid Fuels. (Méthode de brûler le gaz de goudron, et autres liquides combustibles.)

William Bliss and Enoch Bradbury, both of Chipping Norton, County of Oxford, and Arthur Henry Gibson, Birmingham, all in England, 10th October, 1890; 5 years.

Claim.—1st. The herein described improved method of burning gas, tar, or other liquid fuel in steam boiler and other furnaces, which consists in injecting the tar or other liquid fuel into the furnace in a fine stream, which is automatically moved about over the incandescent surface, so as to be evenly, or nearly evenly distributed thereon, substantially as set forth. 2nd. In apparatus for carrying out the method claimed by the preceding claim, the employment of a nozzle through which the gas, tar, or other liquid fuel issues, the said nozzle having an automatic compound motion, so as to deliver the liquid fuel over the different parts of the incandescent surface at regularly recurring intervals, for the purpose and substantially as hereinbefore set forth. 3rd. Mechanism, arranged to operate, substantially as described, so as to impart a combined lateral and angular, or circular, and up and down movement to the nozzle, through which the liquid fuel issues in a fine stream, for the purpose described.

No. 35,171. Perfume Holder.

(Porte-bouteille à parfum.)

Herman Tappan, City of New York, N.Y., U.S.A., 10th October, 1890; 5 years.

Claim.—1st. A perfume holder, comprising a base, a glass bottle or flask supported on the said base, a collar fitted into the neck of the said bottle or flask, and rods connecting the said base with the said collar to hold the several parts together, substantially as shown and described. 2nd. A perfume holder, comprising a base, a bottle supported on the said base and provided with a threaded neck, a collar held on the said neck, bent rods connecting the said collar with the said base, and a cap screwing on the said threaded neck against the said collar, substantially as shown and described. 3rd. A perfume holder, comprising a base, a bottle supported on the said base and provided with a threaded neck, a collar held on the said neck, bent rods connecting the said collar with the said base, a cap screwing on the said threaded neck against the said collar, and a bail held on the said collar for conveniently holding the holder, substantially as shown and described. 4th. A perfume holder, comprising a base, a bottle supported on the said base and provided with a threaded neck, a collar held on the said neck, bent rods connecting the said collar with the said base, a cap screwing on the said threaded neck against the said collar, and a packing ring held in the said cap and adapted to pass over the cork in the neck of the bottle, substantially as shown and described.

No. 35,172. Car Coupling. (Attelage de chars.)

John W. Vaughan, Syracuse, N.Y., U.S.A., 10th October, 1890; 5 years.

Claim.—1st. The combination of a draw-head, provided with the raised boss t, and the recesses s, s, h and t, and pin-hole j, a pin provided with trunnions f, adapted to be journaled in the said recesses s, s, and having a head adapted to swing in front of the boss t, and a point to swing in the recesses h and i, and an uncoupling lever k, journaled to the car and adapted to engage the head of the pin, substantially as shown and described. 2nd. The combination of a draw-head, having the boss t, and recessed, as described, a pin having trunnions journaled in the said boss, and an uncoupling lever k journaled to the car at each side of the draw-head, below the level of the top thereof, and having an upward bend over the draw-head, and weighted arms at the sides of the car, substantially as shown and described.

No. 35,173. Combined Vaporizer and Inhaler. (Évaporateur et inhalateur combinés.)

Charles Lince Coulter, Lindsay, Ontario, Canada, 10th October, 1890; 5 years.

Claim.—1st. In a combined vaporizer and inhaler, the combination of the cylindrical stand A, with base a, handle A¹, aperture a¹, and perforations a¹, the boiler B, with flange b, and cylindrical wide mouthed neck b¹, the bent tube D, having the capsule mouth d and union mouthed bulb d¹, sponge D¹ in said bulb, tube E, having union to connect with said bulb, and having the mouth piece e and the lamp C, substantially as set forth. 2nd. In a combined vaporizer and inhaler, the combination of the cylindrical stand A, having a suitable base, and an aperture for the insertion of a heating lamp, the boiler B, having flange b, by which it is suspended into said stand, and having a cylindrical wide-mouthed neck b¹, the tube D,