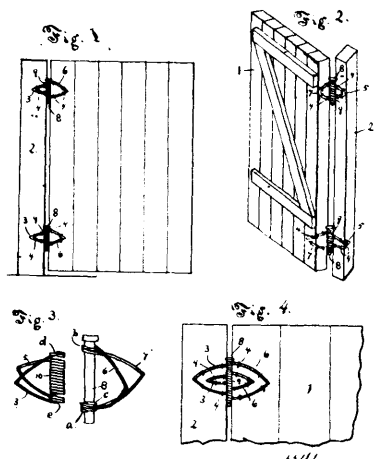


to the head extending into the interior of the valve and notches in the outer ends of the valves and the spiral springs surrounding the hollow valve stem and extending between the head and the inner end of the cock and the stems designed to be brought against the ends of the valves, as and for the purpose specified. 4th. The combination with the gauge tube and the two gauge cocks and the extension plugs leading from the cocks into the boiler and provided with enlargements of the hollow cylindrical valves provided with enlarged heads designed to form their seat upon the inner ends of the cocks and having holes in proximity to the head extending into the interior of the valve, and notches in the outer ends of the valves, the cross notches in the inner end of the head designed to form passage ways for the water when the head is projected against the inner shoulder of the enlargement and the stems designed to be brought against the ends of the valves, as and for the purpose specified.

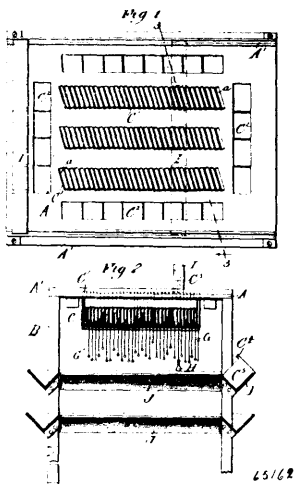
No. 65,161. Hinge. (Penture.)



Edward J. Hollenbeck, Nelson, Illinois, U.S.A., 1st December, 1899; 6 years. (Filed 12th October, 1899.)

Claim.—A hinge, constructed of wire, consisting of a post fixture having a main supporting leaf, or loop, and an auxiliary loop, and a door fixture having a main supporting loop and an auxiliary loop, a sleeve formed of wire coils which are integral with said supporting and auxiliary loops, and a pintle adapted to engage such sleeve, and pivotally unite such post fixture and door fixture, substantially as shown and set forth.

No. 65,162. Type Case. (Caisse à caractères.)

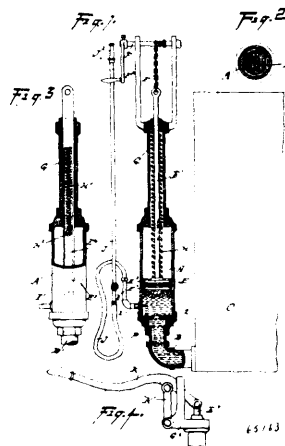


Charles Johann Botz, Sedalia, and The Botz Type Setting Machine Company, Herman, both in Missouri, U.S.A., 1st December, 1899; 6 years. (Filed 22nd June, 1899.)

Claim.—1st. A type case, comprising a table having type boxes arranged obliquely with reference to the front edge of the table. 2nd. A type case, comprising a table having type boxes arranged obliquely with reference to the front edge of the table, one side of each box projecting upwardly to form a stop for the type. 3rd. A

type case, comprising a series of type boxes, one side of each type box projecting beyond the opposite side to form a stop for the type. 4th. A type case, comprising a series of type boxes having slotted sides, an endless belt whose inner run is arranged to move in the slotted side of a box, a follower located in the box and secured to the inner run of the belt, and an actuating device connected to the outer run of the belt. 5th. A type case, comprising a series of type boxes, followers mounted to slide in said boxes, endless belts or aprons extending in the direction of the follower's movement, each follower being secured to one run of the corresponding belt, and an actuating connection secured to and depending from the other run of the belt. 6th. A type case, comprising a series of type boxes, followers mounted to slide in said boxes, endless belts or aprons extending in the direction of the follower's movement, each follower being secured to one run of the corresponding belt, and an actuating connection secured to and depending from the other run of the belt, said connection having at its lower end an attaching device adapted to hold a weight. 7th. A type case, comprising a table, a series of type boxes thereon, followers in the type boxes, means for moving the followers, a frame movable over the table into registry with any one of said type boxes, and storage boxes of proper dimension to be received between said frame and the type boxes and to receive the type discharged by the follower from the corresponding type box. 8th. A type case, comprising a table, a series of type boxes thereon, followers in the type boxes, means for moving the followers, a frame movable over the table into registry with any one of said type boxes, and storage boxes of proper dimensions to be received between said frame and the type boxes and to receive the type discharged by the follower from the corresponding type box, the lower surface of the frame, and the surface of the storage box adapted to engage said frame surface, being formed with inclines to wedge the storage box against the corresponding type box.

No. 65,163. Spraying Apparatus. (Pulvérisateur.)



Marion Lorenzo Johnson, Mears, Michigan, U.S.A., 1st December, 1899; 6 years. (Filed 26th September, 1899.)

Claim.—1st. A spraying apparatus, comprising a cylinder arranged for connection with a supply tank, a suction valve for controlling the inflow of the liquid into the pump cylinder, a minute discharge pipe leading from the cylinder and connected with a spraying device, a piston operating in the cylinder, means carried by the cylinder for moving the piston outward on its suction stroke to draw the liquid into the cylinder, and a spring for returning the piston on its inward or discharge stroke, to force the liquid through the discharge pipe, substantially as shown and described. 2nd. A spraying apparatus, comprising a cylinder, a suction pipe connected with said cylinder, a suction valve for controlling the inflow of the liquid, a minute discharge pipe provided with a valve and leading from the cylinder above said suction valve, a piston operating in said cylinder and provided with two cup-shaped packings extending in opposite directions, manually-operated means carried by the cylinder for moving said piston on the outward or suction stroke, and a spring for moving the piston inward on the discharge stroke, substantially as shown and described. 3rd. A spraying apparatus, comprising a cylinder having a suction pipe leading from its lower end for connection with a supply vessel, a suction valve in the bottom of the cylinder, a piston in the cylinder, a spring acting upon the piston to force it downward, means carried by the cylinder and connected with the upper end of the piston rod for raising the piston against the action of the spring, and a discharge pipe leading from the lower end of the cylinder, substantially as described. 4th. A spraying apparatus, consisting of a cylinder having a pipe at its lower end for connection with a supply pipe, a suction valve in the bottom of the cylinder, a discharge pipe leading from the lower end of the cylinder, a piston in the cylinder, a spring acting on the piston to force it downward, means for lifting the piston against the action of