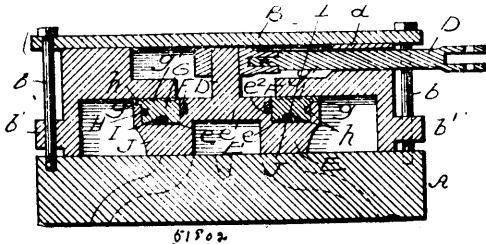


at the outlet end of the delivery pipe, as and for the purpose set forth. 2nd. The combination of a bellows, a powder receptacle secured thereto and having a contracted upper end, a serrated feed wheel within said upper end, a valve closing the upper end, a force pipe connected to the bellows and communicating with said upper end of the receptacle, and a connection between the bellows and the feed wheel, substantially as described. 3rd. In a machine for distributing insect-powder, the combination of a bellows, a receptacle carried thereby and having an open upper end, a valve commanding said open upper end, a wheel within the upper end and capable of feeding and crushing the powder, means for operating the wheel, and a force pipe connected to the bellows and communicating with the upper end of the receptacle, substantially as described. 4th. In a machine for distributing insect-powder, the combination of a bellows, a receptacle affixed thereto, said receptacle having a contracted upper end with an opening therein, a serrated feed wheel located in said contracted end, the contracted end, the contracted end having an open housing at one side and contiguous to a closed housing communicating with the interior of the receptacle, a valve operating in said housings, a force pipe connected to the bellows and communicating with the contracted end of the receptacle, and means for operating the feed wheel, substantially as described. 5th. In a machine for distributing insect-powder, the combination of a bellows, a receptacle secured thereto and having an open upper end, a valve commanding said end, a serrated feed wheel within the receptacle and adjacent to the valve and having one end of its axis extending beyond the receptacle, a ratchet-wheel fixed to the said axis and outside of the receptacle, a link loosely mounted on the extended axis, a dog on the link and operating with the ratchet-wheel, and means for swinging the link, substantially as described.

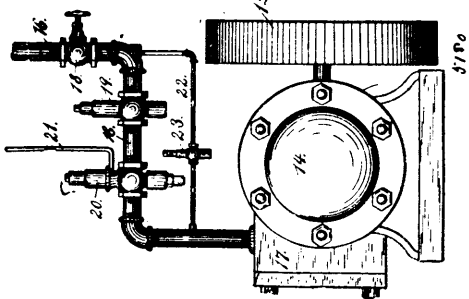
No. 51,802. Balanced Slide Valve. (*Soupape à bascule.*)



Daniel H. Brown, McComb, Mississippi, U.S.A., 28th March, 1896 ;
6 years. (Filed 2nd March, 1896.)

Claim.—1st. A slide valve comprising a body portion with annular chamber, neck portion and vertical extension, a friction ring fitted in said chamber and having an inclined annular groove upon its under face, and a split ring in said groove, substantially as specified. 2nd. A slide valve comprising a body portion with annular groove and neck having peripheral groove, split rings in said annular groove, a friction ring with peripheral groove and annular inclined groove upon its under face, split ring in the peripheral groove upon its under face, split ring in the peripheral groove of said ring, and a split ring in the groove on the under face of the friction ring for seating the latter, as set forth.

No. 51,803. Apparatus for Automatically Controlling Motive Power for Supplying Air to Furnaces. (*Appareil automatique à contrôler la force motrice pour fournir l'air aux fournaies.*)

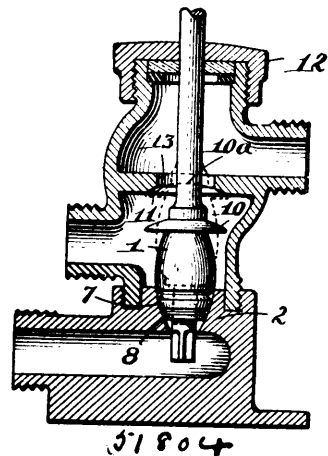


John Engelbert Beckman, William Edgar Woolley, Henry Montgomery Gerraus and George Henry Woolley, all of Buffalo, New York, U.S.A., 28th March, 1896; 6 years. (Filed 26th February, 1896.)

Claim.—1st. An automatic apparatus for regulating the motive power for supplying an artificial draft under furnaces consisting of a fan or blower, an engine for driving the fan, a valve in the supply pipe of the engine, a separate pipe connected with the pressure of the boiler and adapted to close this valve in the supply pipe completely at a certain boiler pressure, and a by-pass valve for permitting a small flow of pressure through or by said regulating valve, as

and for the purpose set forth. 2nd. An automatic apparatus for regulating the motive power for supplying an artificial draft under furnaces consisting of a fan or blower, an engine for driving the fan, a valve in the supply pipe of the engine, and a separate pipe connected with the pressure of the boiler and adapted to close this valve in the supply pipe completely at a certain boiler pressure, as and for the purpose set forth. 3rd. An automatic apparatus for regulating the motive power for supplying an artificial draft under furnaces consisting of a fan or blower, a motor for driving the fan, a regulating valve in the supply pipe of the motor connected with and adapted to be operated by the pressure of the boiler, a by-pass for permitting a small flow of pressure through or by said regulating valve, a second regulating valve in the supply pipe, a diaphragm chamber one side of which is connected with the blast pressure and the diaphragm of which controls a lever, and connections between said lever and second valve for automatically operating the latter by the blast pressure, as and for the purpose set forth. 4th. An automatic apparatus for regulating the motive power for supplying an artificial draft under furnaces consisting of a fan or blower, an engine for driving the fan, a regulating valve in the supply pipe of the engine connected with and adapted to be operated by the pressure of the boiler, a second regulating valve in the supply pipe of the engine, and means for automatically operating this valve by blast pressure, as and for the purpose set forth. 5th. An automatic apparatus for regulating the motive power for supplying an artificial draft under furnaces consisting of a fan or blower, a motor for driving the fan, a regulating valve in the supply pipe of the motor connected with the pressure of the boiler and adapted to close completely at a certain steam pressure, a by-pass and valve for permitting a small flow of pressure through or by said regulating valve, and a second automatically-operated reducing valve in the supply pipe of the engine, as and for the purpose set forth.

No. 51,804. Valve. (Soupape.)



Howard Daniel Waters, Buffalo, New York, U.S.A., Assignee of
William John McKay, Hamilton, Ontario, Canada, 28th March,
1896; 6 years. (Filed 2nd March, 1896.)

Claim.—1st. An elastic double-faced valve adapted for use with two valve-seats, having at one end a valve-face 10, of larger diameter than the body of the valve, and at its opposite end a plurality of valve-faces of smaller diameter, the whole formed of one integral piece, substantially as and for the purposes described. 2nd. An elastic double-faced valve adapted for use with two valve seats, having at one end a valve face 10, of larger diameter than the body of the valve, and at its opposite end a face of smaller diameter, the whole formed of one integral piece, substantially as and for the purpose described.

No. 51,805. Smoke Condenser. (*Condenseur de fumée.*)

(George Heinkel, Assignee of Samuel Shugard Pridham, both of Newark, New Jersey, U.S.A., 28th March, 1896; 6 years.
(Filed 2nd March, 1896.)

Claim.—1st. In an apparatus for condensing smoke, gases or the like, in combination, a tank, having a dividing wall or partition extending from the bottom of the apparatus, and a conveyor drum rotatively arranged in said tank, said dividing wall or partition being made to embrace the lower sides of said drum to form a receiving chamber on one side and a discharge chamber on the other side of said wall, and said conveyor drum receiving water from the receiving chamber and discharging it into the discharge chamber, when in operation, and thereby maintaining a lower level of the water in the receiving chamber than that of the water in the discharge chamber, substantially as and for the purpose set forth. 2nd. In an apparatus for condensing smoke, gases or the like, in combination, a tank, having a dividing wall or partition, and a conveyor drum rotatively arranged in said tank, said dividing wall or partition hav-