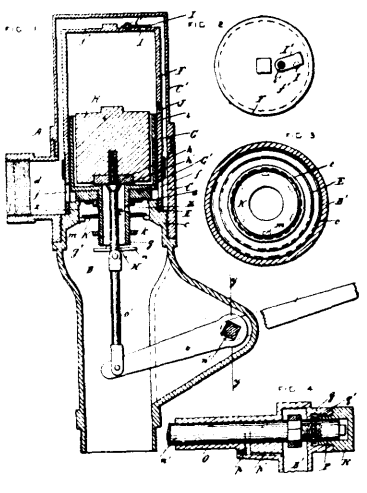
Claim.—1st. A flushing valve comprising a hollow main valve normally held to its seat by the pressure of the water, a stationary plate which forms a water chamber inside the said valve, and a relief valve also normally held to its seat by the pressure of the water and operating to let the pressure water into the said chamber when raised, thereby equalizing the pressure on the main valve, substantially as set forth. 2nd. A flushing valve comprising a hollow main valve normally held to its seat by the pressure of the water, a stationary plate which forms a water chamber inside the said valve, a relief valve controlling an inlet port in the said valve, and a stem for raising first the relief valve and then the main valve, substantially as set forth. 3rd. A flushing valve comprising a stationary guide provided with a lateral water passage and a plate above the said passage, a hollow main valve slidable over the said guide and forming a water chamber above the said plate, said chamber being provided with a small outlet passage, and a relief valve closing a port in the main valve and operating to admit water to the said chamber, substantially as set forth. 4th. The combination, with an outlet chamber, an annular valve seat, and a guide secured to the outlet chamber and provided with a plate at its upper part, a lateral water passage, and a collar which clamps the said valve seat in position, of a hollow main valve slidable over the said guide and provided with a relief valve, substantially as set forth. 5th. The combination, with a stationary guide comprising a lower part provided with a lateral water passage, and an upper part secured to the lower part and provided with a plate closing its upper end, of a ring slidable on the lower part of the said guide and operating to adjust the area of its said water passage, and a hollow main valve slidable over the said guide and provided with a relief valve, substantially as set forth. 6th. The combination, with a hollow main valve, of a stationary plate which forms a water chamber in the said valve, means for controlling the outlet of water from the said chamber, and a relief valve closing a port in the said main valve and operating to admit pressure water to the said chamber, substantially as set forth. 7th. The combination, with a hollow main valve, a stationary plate which forms a water chamber inside the main valve, and a relief valve for admitting pressure water to the said chamber and thereby relieving the main valve of pressure, of a controller which obstructs the flow of water before the main valve closes, substantially as set forth. 8th. The combination, with a hollow main valve, a stationary plate which forms a water chamber inside the main valve, a relief valve for admitting pressure water to the said chamber, and a controller which obstructs the flow of water before the main valve closes, of a single stem for operating the said two valves and controller, substantially as set forth. 9th. The combination, with a stationary guide, of a main valve slidable over the said guide, a stem for operating the main valve, and a controller working inside the said guide and also operated by the said stem, said controller operating to obstruct the flow of water before the main valve closes, substantially as set forth. 10th. The combination, with a stationary guide having a lateral water passage, of a main valve slidable over the said guide, a stem for operating the main valve, and a cylinder secured to the said stem and slidable in the said guide over the said water passage, said cylinder operating to control the flow of water before the said main valve closes, substantially as set forth.

No. 61,520. Valve for Water Closets.

(*Soupape pour latrines à eau.*)



David T. Kenney, North Plainfield, New Jersey, U.S.A., 25th October, 1898; 6 years. (Filed 1st October, 1898.)

Claim. 1st. A main valve provided with a retarding chamber which regulates its movement, a controller which obstructs the flow of water when the valve is partly closed, and a separate support for the controller, substantially as set forth. 2nd. A main valve provided with a retarding chamber which regulates its movement a controlling plate which obstructs the flow of water when the valve is partly closed, and a support for the said plate, substantially as set forth. 3rd. A main valve provided with a retarding chamber which regulates its movement, a controlling plate having a water passage and means for varying the area of the said passage, said plate operating to construct the flow of water when the valve is partly closed, and a support for the said plate, substantially as set forth. 4th. A main valve provided with a retarding chamber which regulates its movement, a stem having a lateral projection, a controller which obstructs the flow of water when the valve is partly closed, and a separate support for the controller, said projection operating to raise and lower the said controller, substantially as set forth. 5th. A main valve provided with a retarding chamber which regulates its movement, a stem having an adjustable projection connected to it, controller which obstructs the flow of water when the valve is partly closed, and a separate support for the controller, said controller being operated by the said projection, substantially as set forth. 6th. The combination, with a main valve, and a relief valve for equalizing the pressure on each side of the main valve, of a controller which obstructs the flow of water when the main valve is partly closed, a separate support for the controller, and means for raising the relief valve, the main valve, and the controller, one after the other, and permitting the controller to descend onto its support before the main valves closes, substantially as set forth. 7th. The combination, with a main valve, of a controller, and a separate support for the controller in the outlet passage of the valve, thereby forming a retarding chamber on the delivery side of valve, substantially as set forth. 8th. The combination, with a main valve provided with a relief valve, of means for obstructing the flow of water discharged by the relief valve and thereby forming a pressure on the discharge side of the main valve, substantially as set forth. 9th. The combination, with a main valve provided with a retarding chamber which regulates its movement, and a relief valve which controls a passage between said chamber and the discharge side of the main valve, of a controller which forms a second retarding chamber in the delivery passage of the main valve, substantially as set forth. 10th. The combination, with a casing having a small inlet passage, and a port J in its side, of main valve slidable in the said casing and operating to uncover the said port just before it closes, and a relief valve controlling the outlet from the said casing, substantially as set forth. 11th. The combination, with a series of water closets each having a separate flushing valve arranged in close proximity to its bowl, each said valve being provided with a retarding chamber, a controller which obstructs the flow of water shortly before the valve closes, and a separate support for the said controller, of a single cistern, and pipe connections between the said cistern and the flushing valves, substantially as set forth.

No. 61,521. Acetylene Gas Generator.

(*Générateur de gaz acétylène.*)

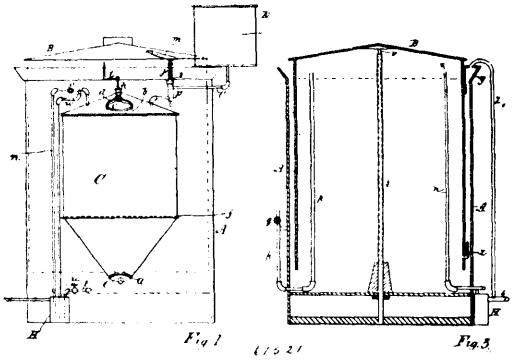


Fig 1 Fig 3

William Franklin Mudge, Welland, Canada, Ontario, 25th October, 1898; 6 years. (Filed 25th October, 1897.)

Claim.—1st. In combination with an acetylene gas holder and its water tank into which it is placed, a safety device for the same consisting of a small pipe inserted in the lower end of the gas holder and made to pass upwards close to the outside of the gas holder a short distance, say about two inches and a half, and a chamber formed in the flange of the water tank, with a pipe leading from the said chamber to a discharge pipe, by which, when the gas holder rises above the water in the tank, the surplus gas blows out through the said safety device and prevents accident when too much gas is in the gas holder, all substantially as specified. 2nd. A safety device for an acetylene gas generator consisting of the combination of the pipe W, with the inlet gaspipe *n*, and the cylindrical vessel H, or its discharge pipe, all substantially as and for the purpose specified. 3rd. In an acetylene gas generator and gasometer, a device for catching and carrying off the drip from the gas pipes, consisting of a cylindrical vessel H, placed on the outside of the water tank of the gas holder and affixed thereto and provided with