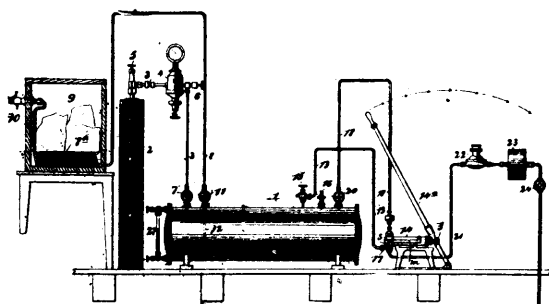


having inlet ways, a sleeve connected with said casting to which said ways lead, a plunger to control said ways, a lever to operate said plunger, an outlet way, and means to control the same, substantially as described. 23rd. A cock comprising a casting having inlet ways, a sleeve connected with said casting to which said ways lead, a plunger to control said ways, a spring and lever to operate said plunger, a plug or cap to adjust the tension of said spring, an outlet way in said casting, and means to control said outlet, substantially as described. 24th. A cock comprising a casting having ways, a sleeve connected with said casting to which said ways lead, a spring acting plunger in said sleeve to control said ways, a lever pivotally carried by said sleeve to control said plunger, an outlet way in said casting and means to control said way, substantially as described. 25th. A cock comprising a casting having inlet ways, a sleeve connected with said casting to which said ways lead, a sleeve within said sleeve, a spring acting plunger within the second mentioned sleeve, a lever pivotally carried by the first mentioned sleeve and projecting through an opening in the inner sleeve and into a recess in said plunger, an outlet way in said casting, and means to control said outlet, substantially as described. 26th. A cock comprising a casting having ways leading to a common side thereof and to a chamber carried by said casting, a plunger in said chamber to control said ways, and means for operating said plunger, substantially as described. 27th. A cock comprising a casting having a way leading from one side to another, a way leading from the latter side to another side, said casting having a chamber to which both of said ways lead, a plunger in said chamber to control said ways, and means to control said plunger, substantially as set forth.

**No. 62,807. Apparatus for Carbonating and Dispensing Liquids.** (*Appareil pour la carbonisation et dispensation des liquides.*)



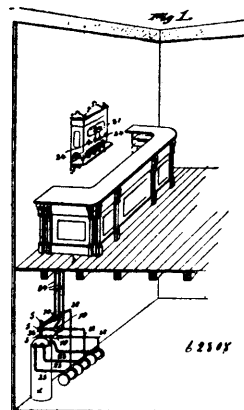
62807

Peter E. Malmstrom, New York City, New York, U.S.A., 6th March, 1899; 6 years. (Filed 22nd November, 1898.)

**Claim.**—1st. In an apparatus for carbonating liquids, a cylinder or vessel connected by a pipe with a gasholder, a pump exterior to and connected with said cylinder by two pipes, both of said pipes being independent of the pipe from the gasholder, means for supplying said pump with a liquid, and valves to control the passage of gas from said cylinder to said pump through one pipe, and to control the passage of the same gas and a liquid from said pump to said cylinder through the other pipe, substantially as described. 2nd. The combination of a cylinder or vessel, a pump, a pipe connecting them for the passage of gas to the pump, a pipe connecting said cylinder with said pump for the passage of liquid from the latter to the former, valves to control the passage through said pipes, and a nozzle connected with the second-mentioned pipe within said cylinder, said nozzle having its end closed and slits in its side arranged to converge toward a point exterior thereto, substantially as described. 3rd. The combination with the gasholder 2, a force pump having a compression chamber, the cylinder 1, pipes and controlling devices connecting the gasholder with the pump chamber through the gas space of cylinder 1, a return pipe connecting the pump and gas space of cylinder 1, independently of the latter's connection with the gasholder, and a source of liquid supply connected with the pump chamber, substantially as described. 4th. The combination with the detachable gasholder 2, a force pump having a compression chamber, the cylinder 1, pipes and devices controlling the passage of the gas from the holder through the gas space of the cylinder to pump chamber, a return pipe connecting the pump chamber and gas space of the cylinder, and a source of liquid supply connected with the pump chamber, a dispensing faucet, the cooling chamber, a coil in said chamber, and pipes connecting the liquid space of the cylinder 1, with the coil and the latter with the faucet independently of the before-mentioned pipes, substantially as described. 5th. The combination with the gasholder 2, a force pump, the cylinder 1, pipes and devices controlling the passage therethrough, said pipes connecting the gasholder with the pump through the cylinder, a return pipe connecting the pump and cylinder, and a source of liquid supply connected with the pump, a dispensing faucet, the cooling chamber, a coil in said chamber, and pipes connecting the cylinder 1, with the coil and the latter with the faucet, substantially as described. 6th. The combination with the gasholder

2, the cylinder 1, a force pump, a pipe connecting the inlet of the pump with the cylinder 1, a water-supply connected with said inlet, a pipe leading from the outlet of the pump to said cylinder 1, a pipe connecting the gas-holder and cylinder 1, and means for equalizing the water and gas pressure at the pump inlet, substantially as described. 7th. The combination with the gas-holder, the cylinder 1, the pipe 12 leading to the fluid space in said cylinder and extending exteriorly of the cylinder by a pipe 8 to a suitable dispenser, a pipe 3 extending between the gasholder 2 and the gas space in cylinder 1, a pipe 13 leading from the gas space in the cylinder to a force pump, a pipe 21 leading to the pump from a fluid supply, and a pipe 18 leading from the pump and terminating in the split nozzle 25 extending into the gas-space of the cylinder 1, substantially as described. 8th. In a device for carbonating liquids, the combination with the longitudinally disposed cylinder 12, the gasholder 2, the valve regulated pipe 3 leading from the holder to the gas space of said cylinder, a pump having a compression chamber, a pipe 21 leading from a liquid supply to the inlet of said chamber, a pipe 13 leading from the gas space of said cylinder to said pump chamber, and a pipe 18 leading from said pump chamber to the gas space in said cylinder and provided at its end with a slotted tube, substantially as described. 9th. In a device for carbonating liquids, the combination with the horizontally disposed cylinder 12, the gasholder 2, the valve regulated pipe 3 leading from the holder to the gas space of said cylinder, a pump having a commingling and compression chamber comprising two separate and valve controlled compression compartments, a barrel having a plunger in communication with one of the compartments, and a by-pass in communication with the barrel and the other compartment, inlet and outlet compartments above and below the compression compartments, a pipe 21 leading to the inlet compartment, a pipe 13 leading from the gas space of cylinder 12 to said inlet compartment, a pipe 18 leading from the outlet compartment to the gas space of said cylinder, and means for operating said plunger, substantially as described. 10th. In a device for carbonating and dispensing liquids, the combination with the horizontally disposed cylinder 12, the gasholder 2, the valve regulated pipe 3 leading from the holder to the gas space of said cylinder, a pump having a compression chamber, a pipe 21, leading from a liquid supply to the inlet of said chamber, a pipe 13 leading from the gas space of said cylinder to said pump chamber, a pipe 18 leading from said pump chamber to the gas space in said cylinder, a pipe 12 leading from the bottom of said cylinder, a cooling box, a pipe coil in said box, a pipe 8 leading from the pipe 12 to one end of said coil and having a valve 11, and a faucet 10 exterior to said box and in communication with the other end of said coil, substantially as described.

**No. 62,808. Apparatus for Making and Dispensing Mineral Waters.** (*Appareil pour la fabrication et dispensation des eaux minérales.*)



62808

Peter E. Malmstrom, New York City, New York U.S.A., 6th March, 1899; 6 years. (Filed 22nd November, 1898.)

**Claim.**—1st. In an apparatus of the class described, the combination of the following instrumentalities, a holder containing carbonated water and having a top gas pressure, a receptacle containing a mineral salt solution, a commingling chamber in which the carbonated water and mineral salt solution is combined, a pipe leading from the carbonated water holder to the said chamber, a pipe leading from the gas area to the said receptacle, a pipe leading from the said receptacle to the said chamber, and check-valves located at each of the flow of said fluids, substantially as described. 2nd. The combination, in an apparatus of the kind described, of the holder, the solution-receptacle, the commingling chamber, a cooling-box, a dispensing-faucet, and independent pipes with controlling valves leading from the holder to said receptacle and to said chamber, and from the chamber to said faucet through the cooling box, substantially as described. 3rd. The combination, in an apparatus of the kind described, of the holder, the solution receptacle, the comming-