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(54) Title: REGULATED GAS SUPPLY SYSTEM

(57) Abstract: A regulated gas supply system having a body defining a pressurized gas reservoir connected to a high-pressure regulator that regulates the high pressure gas from the gas reservoir to disperse the gas at a desired pressure. The gas regulating assembly includes a piston chamber with a piston slidably positioned in the piston chamber, the piston chamber having a secondary chamber connected to the gas reservoir. A spring is positioned between one side of the piston and the piston chamber, with the piston including a piston channel to allow pressurized gas to flow through the piston. Pressure is developed on the piston opposite the spring that is proportional to the force of the spring, providing a balanced piston.



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