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(71) Applicant: **FATS, INC.** [US/US]; 7340 McGinnis Ferry Road, Suwanee, GA 30024 (US).

(72) Inventors: **METCALFE, Corey, Howard**; 2831 Blarney Way, Duluth, GA 30024 (US). **FLEMING, Paul, Heath**; 5707 Manuel Place, Sugarhill, GA 30518 (US). **WILSON, Henry, Martin, Jr.**; 2070 Skylar Leigh Drive, Buford, GA 30518 (US).

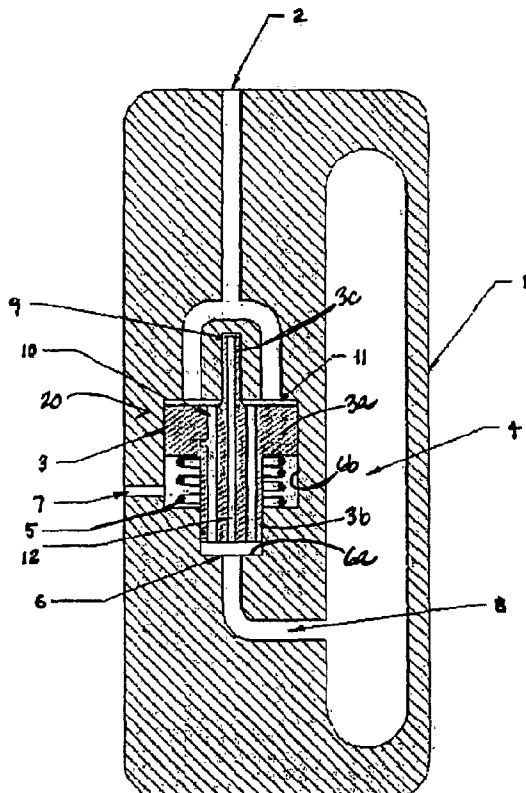
(74) Agents: **HOLLAND, Christopher, A.** et al.; Smith, Gambrell & Russell, LLP, 1230 Peachtree Street, N.E., Suite 3100, Promenade II, Atlanta, GA 30309-3592 (US).

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(54) Title: REGULATED GAS SUPPLY SYSTEM



(57) Abstract: A regulated gas supply system (100) having a body (1) defining a pressurized gas reservoir (4) connected to a high-pressure regulator that regulates the high pressure gas from the gas reservoir (4) to disperse the gas at a desired pressure. The regulating assembly (20) includes a piston chamber (6) with a piston (3) slidably positioned in the piston chamber (6). A spring (5) is positioned between one side of the piston (3) and the piston chamber (6), with the piston (3) including a piston channel (10) to allow pressurized gas to flow through the piston (3). Pressure is developed on the piston (3) opposite the spring (5) that is proportional to the force of the spring (5), providing a balanced piston (3). The system (100) is miniature and self-contained to fit inside any number of small pneumatically operated devices.

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