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(54) Title: FLUID REGULATOR WITH IMPROVED PRESSURE CONTROL

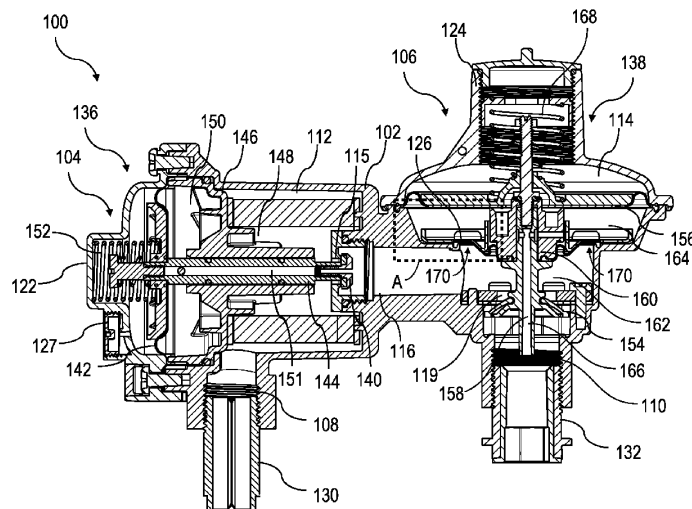


FIG. 4

(57) Abstract: A fluid regulator assembly for a fluid, such as a gas, includes a housing and a regulator. The housing includes an inlet, an outlet, and a chamber. The regulator is coupled to the housing and includes a control assembly with a plug, a diaphragm, and a control element. The plug is movable relative to the outlet for controlling a flow of fluid through the housing, and the diaphragm controls the plug responsive to a control pressure acting on the diaphragm. The control element is positionable between a first position and a second position for controlling the control pressure acting on the diaphragm, where, in the first position, the control pressure is an outlet pressure downstream from the outlet, and in the second position, the control pressure is at least an inlet pressure upstream from the outlet.

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