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(54) Title: FLOW CONTROL SYSTEMS AND CONTROL VALVES THEREFOR

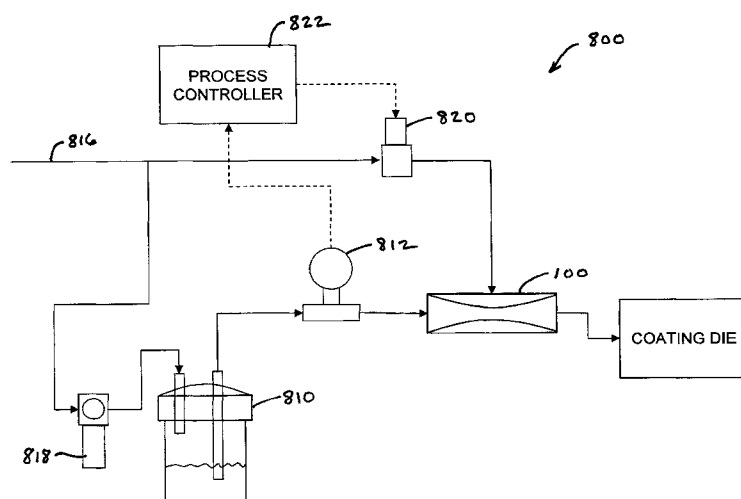


Fig. 11

(57) Abstract: A fluid system, a control valve therefor, and a method of its operation are provided. The fluid system includes a piping run, and a control valve which includes: a housing having an inlet connected to the piping run, an outlet connected to the piping run, and a pressure port; and an elastomeric tube disposed inside the housing, the tube having a flow passage extending therethrough which is in fluid communication with the inlet and outlet. An outer surface of the tube and the housing cooperatively define a pressure chamber which is in fluid communication solely with the pressure port. A source of controlled fluid pressure is connected to the pressure port to modulate flow in the tube. The tube is sized and the valve is operated so as to provide accurate flow rate control.



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USPC: 251/4,5

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 251/4, 5

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,305,983 A (HAASE et al.) 26 April 1994 (26.04.1994), see figure 1.	1-25
A	US 7,118,086 B1 (BORGLUM et al.) 10 October 2006 (10.10.2006), see figure 1.	1-25
A	US 6,575,425 A (BETZ) 10 June 2003 (10.06.2003), see figure 1.	1-25
A	US 6,572,259 A (BURNETT) 03 June 2003 (03.06.2003), see figure 1.	1-25

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