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Tokyo (JP).

(72) 発明者; および

(75) 発明者/出願人 (米国についてのみ): 田中 利曜 (TANAKA, Toshiharu) [JP/JP]; 〒391-0012 長野県 茅野市 金沢茂左久保 5 1 2 5 番地 東洋パルヴ株式会社 R & D セクター内 Nagano (JP). ノノ瀬忠治 (ICHINOSE, Tadaharu) [JP/JP]; 〒391-0012 長野県 茅野市 金沢茂左久保 5 1 2 5 番地 東洋パルヴ株式会社 生産技術部内 Nagano (JP). 矢田 勝久 (YATA, Katsuhisa) [JP/JP]; 〒391-0012 長野県 茅野市 金沢茂左久保 5 1 2 5 番地 東洋パルヴ株式会社 R & D セクター内 Nagano (JP).

日本語

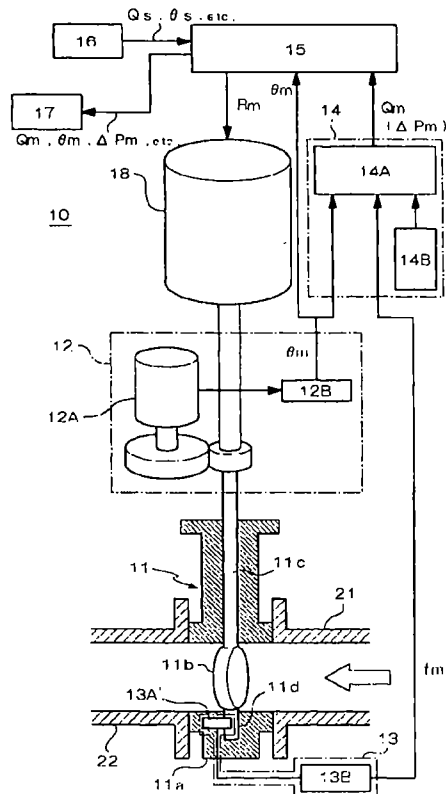
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(71) 出願人 (米国を除く全ての指定国について): 東洋バルブ株式会社 (TOYO VALVE CO., LTD.) [JP/JP]; 〒

(54) Title: FLOW REGULATING VALVE, FLOW RATE MEASURING DEVICE, FLOW CONTROL DEVICE, AND FLOW RATE MEASURING METHOD

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(57) Abstract: A flow regulating valve (11), which has a valve disk (11b) operably disposed in a flow channel and is capable of regulating the flow of fluid according to the valve opening degree of the valve disk (11b), is characterized by comprising a stress detecting means (13) for detecting the flow-channel-direction force component of a load applied to the valve disk by the fluid, and a valve opening degree detecting means (12) for detecting the degree of opening of the valve disk. The flow rate calculating means (14) finds the flow rate (Q_m) from the stress (f_m) obtained from the stress detecting means and from the valve opening degree (θ_m) obtained from the valve opening degree detecting means. A control means (15) controls a valve disk driving means (18) on the basis of the flow rate to drive the valve disk for opening and closing. This makes it possible to find the flow rate with higher sensitivity and accuracy than in the prior art, the construction being compact and simple, providing stabilized data.



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