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Note: Bibliography reflects the latest situation

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(71) Applicant: **Fisher Controls International LLC**

St. Louis, MO 63136 (US)

(72) Inventors:

• **Hall, Randy Jerold**

Marshalltown,

IA 50158 (US)

• **Burr, Ronald Charles**

Marshalltown,

IA 50158 (US)

(74) Representative: **Bohnenberger, Johannes et al**

Meissner, Bolte & Partner GbR,

Postfach 86 06 24

81633 München (DE)

Remarks:

This application was filed on 13-03-07 as a divisional application to the application mentioned under INID code 62.

(54) **Valve Plug**

(57) A valve assembly has a valve body (12) having an inlet passageway (54) and an outlet passageway (56). A flow orifice (72) is disposed within valve body and provides flow communication between the inlet passageway (54) and outlet passageway (56). A valve seat (70) cooperates with the flow orifice (72) and a variable port valve plug (60) to open and close the valve. The valve plug (60) has a plug body with a conically-shaped smooth tapered wall (82), a proximal end, and a domed distal end (88) surface that smoothly transitions into the tapered wall (82). The valve plug (60) is movable between an open position out of contact with the valve seat (70) and a closed position borne against the valve seat (70). A maximum open position of the valve plug relative to the valve seat (70) can be selectively changed to vary flow characteristics through the valve assembly.

