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(54) Title: VALVE MANIFOLD ASSEMBLY

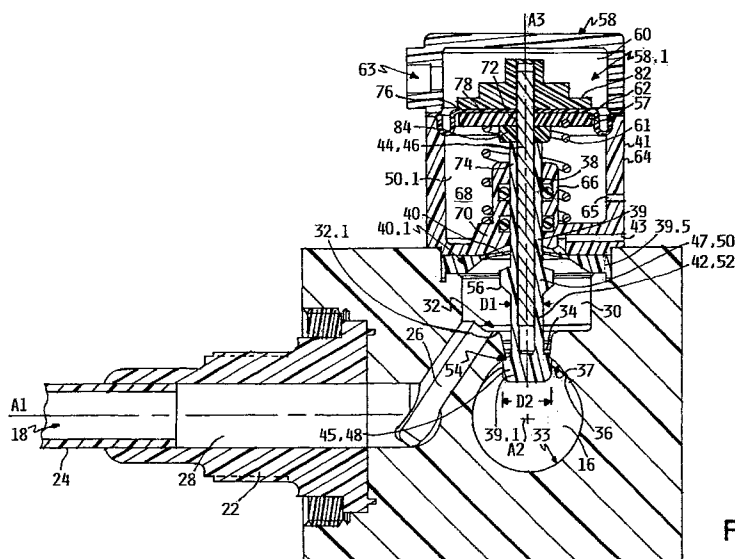


FIG. 2

(57) Abstract: A valve manifold assembly including a manifold body defining a primary flow passage and a secondary flow passage fluidly coupled therewith through an aperture in the wall of the primary flow passage. A valve including a head portion and a stem extending therefrom is disposed through the aperture. The head portion has a valve sealing surface adjacent and extending around the stem, and a valve seat having a seat sealing surface facing into the primary flow passage extends around the aperture. The valve is selectively shiftable between a closed position wherein the valve sealing surface is sealingly engaged with the seat sealing surface to block fluid flow between the secondary flow passage and the primary flow passage, and an open position wherein the valve sealing surface is spaced apart from the seat sealing surface to enable fluid flow between the secondary flow passage and the primary flow passage.

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER
IPC: **F16K 11/20**(2006.01),1/06(2006.01)

USPC: 137/606;251/63.6
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. : 137/606, 607; 251/63.6

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)
EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 3,572,366 A (WIGGINS) 23 March 1971 (23.03.1971), column 4, line 3 to column 7, line 57.	1-4, 7-19 ----- 6
Y	US 3,797,524 A (SANELLI) 19 March 1974 (19.03.1974), column 2, line 16 to column 3, line 58.	6
X --- Y	US 5,058,624 A (KOLZE) 22 October 1991 (21.10.1991), column 5, line 62 to column 6, line 64.	1-3, 5, 7-18, 20 ----- 6

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☐ See patent family annex.

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