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HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP,
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MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ,
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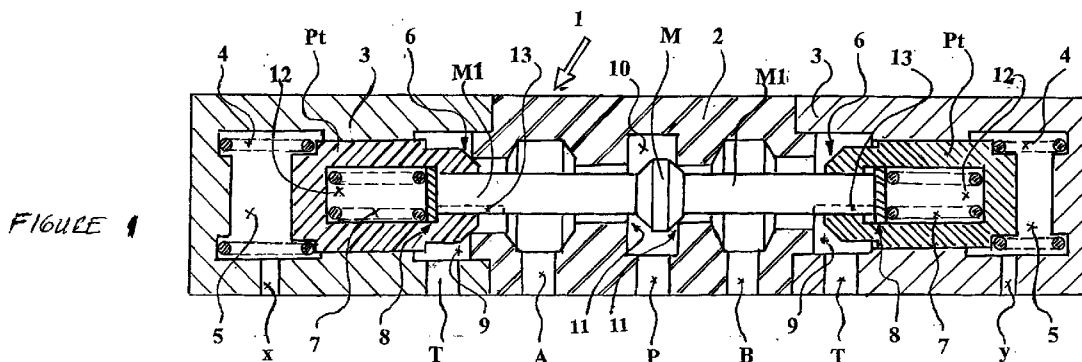
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(54) Title: THREE CONIC POPPET DIRECTIONAL CONTROL VALVE



(57) **Abstract:** Invention valve; Directional control valve with three conical poppets. Three conical poppets (Pt) connected to each other within the valve body (Pt) open two flow paths with the right axial movement of the left (M) (Pt) and close the other two flow paths (A,P,B, T). In the invention valve, the strong radial force seen in the gate valves is close to zero. Therefore, problems such as abrasion, compression, deadlock, adhesion, leakage are not seen in the internal mechanism. Sealing, safety valve, sorting valve, as with the check valve..... the squeezing principle is on the surface of the poppets (11), (6) the sealing is complete. 3/2 In the hydraulic system, the pilot directional control valve (15) controls the valve (Pt) left, (Pt) right poppets separately. With an electronic programmable control system, the flow control can be done with a precision-adjustable planning. This system can perform the desired (A-O-B) positions. Industrial Use, Commercial Value: Invention will be used as directional control valves in heavy-duty machines, CNC machine tools, hydraulic presses, plastic injection presses, Aircraft Industry and defence Industry. By increasing hydraulic efficiency, reliable, comfortable running, extended life, trouble-free directional control valve is intended to be put on the market.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/TR2019/000016

A. CLASSIFICATION OF SUBJECT MATTER

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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)

F16K; F15B

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)

EPODOC, WPI, EPOQUE, Espacenet, TURKPATENT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 1174768 A (DOWTY ELECTRICS LTD) 17 December 1969 (1969-12-17) The whole document	1-4
A	DE 3315056 A1 (BOSCH GMBH ROBERT [DE]) 31 October 1984 (1984-10-31) The whole document	1-4
A	JP S59131072 A (DAIKIN IND LTD) 27 July 1984 (1984-07-27) The whole document	1-4
A	JP 2007010116 A (BOSCH REXROTH CORP) 18 January 2007 (2007-01-18) The whole document	1-4
A	US 4014509 A (YUKEN KOGYO CO LTD) 29 March 1977 (1977-03-29) The whole document	1-4



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Information on patent family members

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Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
GB	1174768	A	17 December 1969	NONE			
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JP	S59131072	A	27 July 1984	NONE			
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