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(54) **High pressure oil generating apparatus of internal combustion engine.**

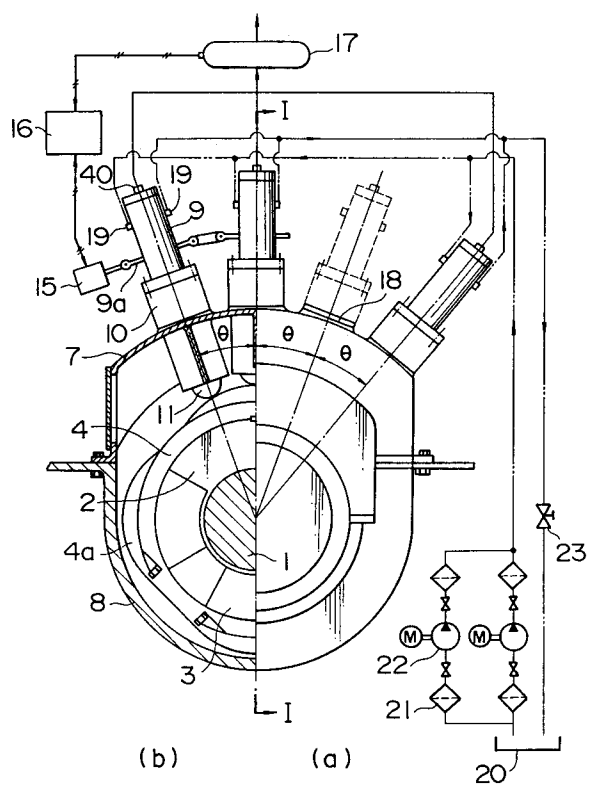
(57) The present invention relates to a high pressure oil generating apparatus of an internal combustion engine for driving valves or devices installed in the internal combustion engine with working oil. The construction consists of a cam (4) having one and more lobes fixed to a crank shaft (1) as one body, one and more jerk type high pressure pumps (9) operated by the cam (4), a working oil source (20) for feeding working oil to the high pressure pumps (9), an accumulator (17) for accumulating high pressure working oil discharged from respective high

pressure pumps (9) and a control means (16), and is characterized in that the rack positions of above-mentioned respective high pressure pumps (9) are adjusted and the working oil pressure is controlled at a predetermined pressure by the control means (16).

Thus, the high pressure oil generating apparatus is applied practically for controlling the fuel injection quantity of the internal combustion engine and for controlling a suction/discharge valve, and particularly for controlling operation of a discharge valve.

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FIG. 2





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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.5)
Y	GB-A-2 067 681 (EHEIM AND HÖFER) * the whole document * ---	1-3,5	F04B1/06 F01L9/02 F02M47/04
Y	DE-A-38 00 003 (ELSBETT) * the whole document * ---	1-3,5	
A	DE-A-37 00 003 (ELSBETT) * the whole document * ---	1-3,5	
A	US-A-2 219 002 (BEEH) * the whole document * ---	1-3,5	
D,A	PATENT ABSTRACTS OF JAPAN vol. 9, no. 34 (M-357) 14 February 1985 & JP-A-59 176 412 (SAITOU ATSUSHI) 5 October 1984 * abstract * ---	1-3,5	
D,A	PATENT ABSTRACTS OF JAPAN vol. 9, no. 29 (M-356) 7 February 1985 & JP-A-59 173 512 (SAITOU ATSUSHI) * abstract * -----	1,5	TECHNICAL FIELDS SEARCHED (Int.Cl.5) F01L F02M F01M F04B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 7 June 1994	Examiner Von Arx, H
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			