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54 Rotary valve cylinder head

57 A rotary valve cylinder head includes a cylinder head body (10) which defines a cylindrical region therein and having a dual port combustion chamber (14) disposed adjacent the head end of the cylindrical region, a piston (16) reciprocatable within the cylindrical region, and rotary valve devices disposed in the cylinder head body (10) for controlling flow of gas to and from the combustion chamber (14). The rotary valve devices include a pair of cylindrical rotary valve members (36, 38) parallel to each other on opposite sides of the cylindrical region. The valve members (36, 38) are journaled in bearing means (39, 41) disposed between the valve members (36, 38) and the cylinder head body (10). Each bearing means (39, 41) receives a respective sealing member (68, 69) disposed around a respective port (25, 31) and between the bearing means (39, 41) and the cylinder head body (10). Each sealing member (68, 69) is an endless loop and encircles the respective port (25, 31). The lateral cross-sectional shape of each sealing member (68, 69) provides compressive elasticity so that movement of the bearing means (39, 41), which are metal-impregnated graphite sealing screens, can be accommodated without separation between the bearing means (39, 41) and the cylinder head body (10).

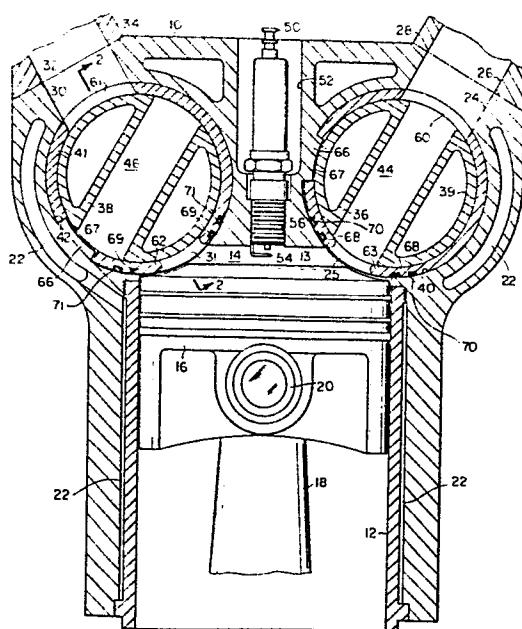


Fig. 1



EUROPEAN SEARCH REPORT

EP 82 30 0708

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	DE-A-2 651 886 (DANA) * Whole document *	1, 6	F 02 F 1/38 F 01 L 7/00
A	US-A-1 513 911 (C.W. KELLER et al.)		
A	US-A-1 077 317 (C.E. SWENSON)		
A	DE-C- 412 888 (L.A. LOHSE)		
A	AT-B- 107 467 (R.P.F. LEMASSON et al.)		
A	FR-A-2 429 323 (HONDA)		TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
	-----		F 01 L 7/00 F 16 C 17/02 F 16 J 15/00
The present search report has been drawn up for all claims			
Place of search BERLIN	Date of completion of the search 29-07-1983	Examiner CANNICI B.S.E.	
CATEGORY OF CITED DOCUMENTS		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	
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