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## **EUROPEAN PATENT APPLICATION**

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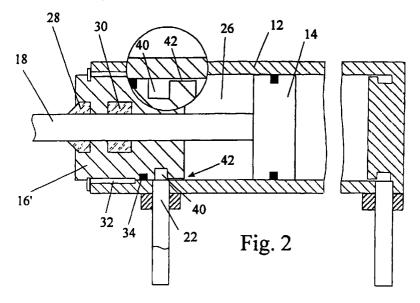
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## (54)Hydraulic jack

(57)A hydraulic jack is disclosed having a variable volume working chamber 26 defined by a piston 14 reciprocable within a cylinder bore and a port 22 for allowing hydraulic fluid to enter and leave the working chamber. In order to avoid accumulation of air within the working chamber 26, an insert 16' is positioned in the

cylinder bore to define therewith an annular passage 40 in communication with the port 22, the annular passage also communicating with the working chamber 26 through a gap 42 between the radially outer surface of the insert 16' and the cylinder bore.





## **EUROPEAN SEARCH REPORT**

Application Number EP 97 20 2841

Category	Citation of document with indication of relevant passages	, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)	
х	DE 44 19 213 A (ZAHNRADF FRIEDRICHSHAFEN) 7 Decem * column 2, line 35 - li	ber 1995	1-3,5	F15B21/04 F15B15/14	
A	US 1 938 772 A (ERNST) 1 * figure 7 *	2 December 1933	1,4-6		
A	US 2 452 369 A (GRAVENHO 1948 * column 3, line 12 - li		1		
				TECHNICAL FIELDS SEARCHED (Int.Cl.6)	
				F15B	
	The present search report has been dr	awn up for all claims			
Place of search		Date of completion of the search			
THE HAGUE		3 July 1998	July 1998 SLE		
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		E : earlier patent docu after the filing date D : document cited in L : document cited for	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		
		L : document cited for	other reasons		