

12

EUROPEAN PATENT APPLICATION

21 Application number: **85630158.5**

51 Int. Cl.⁴: **F 01 B 23/08, F 01 L 21/04**

22 Date of filing: **19.09.85**

30 Priority: **26.09.84 IL 73083**

71 Applicant: **Masel, Ruben, 16, Hatzabar Street, Kiron (IL)**

43 Date of publication of application: **02.04.86**
Bulletin 86/14

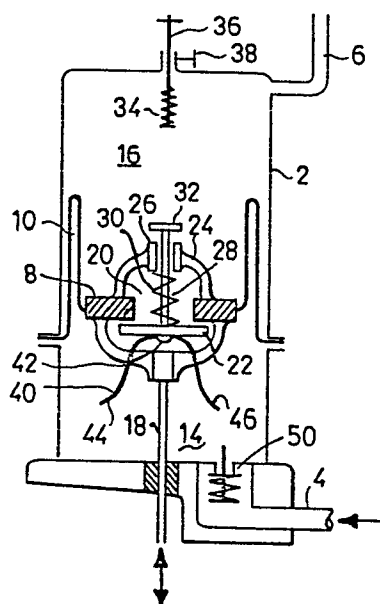
72 Inventor: **Masel, Ruben, 16 Hatzabar Street, Kiron (IL)**
Inventor: **Vaidshtein, George, 15 Hashiluach, Holon (IL)**

84 Designated Contracting States: **AT BE CH DE FR GB IT LI NL SE**

74 Representative: **Weydert, Robert et al, OFFICE DENNEMEYER S.à.r.l. P.O. Box 1502, L-1015 Luxembourg (LU)**

54 **Fluid-driven reciprocating motor.**

57 A fluid-driven reciprocating motor comprises a cylinder (2) and a displaceable piston (8) formed with a valve opening (20) therethrough and carrying a valve member (22) effective to close the valve opening (20) during the forward strokes and to open it during the return strokes. A stop (36) at the outlet end of the cylinder (2) is engageable with the valve member (22) at the end of the forward strokes to cause the valve member (22) to open the valve opening (20) to start the return strokes. The stop (36) includes a spring (34) effective, when engaged by the valve member (22) at the end of the forward strokes, to yield and thereby to store energy, which energy is transferred to the engaged valve member (22) at the start of the return strokes to maintain the valve member (22) in its open position for a short interval until the pressure in the inlet and outlet chambers (14, 16) has been substantially equalized at the start of the return strokes by the opening of the valve member (22).





European Patent
Office

EUROPEAN SEARCH REPORT

0176467

Application number

EP 85 63 0158

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.4)
X	FR-A-2 381 923 (FOGAUTOLUBE) * Page 2, line 26 - page 5, line 13; figures 1-4 *	1, 3, 9, 11	F 01 L 21/04 F 01 B 23/08 F 01 B 11/00 F 04 B 9/10
Y		4, 10	
A	---	6	
Y	US-A-3 908 373 (FOSTER-MILLER) * Column 3, lines 32-67; figures 1, 2 *	4, 10	
A	---	2, 6, 7	
X	FR-A-2 329 980 (ECONOMICS LABORATORY) * Page 2, line 14 - page 3, line 26; figure 1 *	1, 3, 5, 8, 11	TECHNICAL FIELDS SEARCHED (Int. Cl.4) F 01 L F 01 B F 04 B F 03 C F 16 K
A	---	6	
A	US-A-4 456 029 (McCRUM) * Abstract; figures 1-5 *	2	
A	US-A-2 895 421 (PEEPS) * Column 3, lines 3-12; figure 3 *	7	
	--- -/-		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 03-12-1986	Examiner KOOIJMAN F.G.M.
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	



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.4)
A	US-A-3 969 987 (WISE) ---		
A	US-A-4 051 877 (FLETCHER) --- -----		
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 03-12-1986	Examiner KOOIJMAN F.G.M.
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	