

Europäisches Patentamt European Patent Office Office européen des brevets



EP 0 745 774 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 04.06.1997 Bulletin 1997/23

(51) Int. Cl.⁶: **F04C 15/04**, F04C 2/10

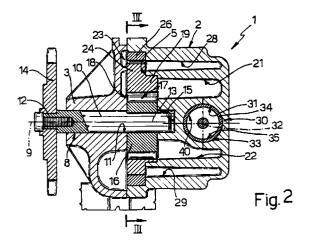
- (43) Date of publication A2: 04.12.1996 Bulletin 1996/49
- (21) Application number: 96108447.2
- (22) Date of filing: 28.05.1996
- (84) Designated Contracting States: **DE ES FR GB**
- (30) Priority: 30.05.1995 IT TO950441
- (71) Applicant: MAGNETI MARELLI S.p.A. 20145 Milano (IT)
- (72) Inventor: Pachetti, Carlo 56100 Pisa (IT)

(11)

(74) Representative: Jorio, Paolo, Dr. Ing. et al Studio Torta S.r.I., Via Viotti, 9 10121 Torino (IT)

(54) Variable-delivery pump

(57) A variable-delivery pump (1) has a first compression stage (18) and at least one second compression stage (23) with respective inlet passages (21) (28) communicating with an inlet (6) of the pump (1), in use, and respective exhaust openings (22) (29) for communicating with a delivery outlet (7) of the pump (1) itself; the pump (1) further being provided with a valved selector unit (30) interposed between the inlet passages (21) (28) and the exhaust passages (22) (29) which can be actuated to connect the passages (21) (22) (28) (29) together and to select different operative conditions for the stages (18) (23) according to the pressure of the fluid directed to the delivery outlet (7).





EUROPEAN SEARCH REPORT

Application Number EP 96 10 8447

DOCUMENTS CONSIDERED TO BE RELEVANT				
Category	Citation of document with of relevant p	indication, where appropriate, assages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X Y	DE 38 37 599 A (DA:	•	1-4,6-11 12-16	F04C15/04 F04C2/10
х	US 4 502 845 A (CH/ * the whole documer	ANA) nt *	1-4,6-9	
Х	EP 0 499 794 A (MEF * the whole documer		1-4,6-9	
Y	DE 35 20 884 A (TRV * page 6 - page 9 * page 10, paragrap * page 12 - page 16 1-4 *	•	12-16	
				TECHNICAL FIELDS SEARCHED (Int.Cl.6) F04C
	The present search report has b	een drawn up for all claims	_	
Place of search Date of completion of the search			-1 1	Examiner
	THE HAGUE	8 April 1997	Kapoulas, T	
X : part Y : part docu A : tech O : non	CATEGORY OF CITED DOCUME icularly relevant if taken alone icularly relevant if combined with anoment of the same category nological background written disclosure mediate document	E : earlier patent d after the filing other D : document cited L : document cited	I in the application	shed on, or