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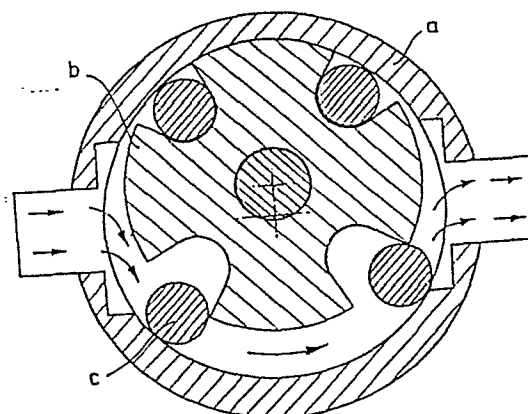
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54 **Reversible system for the transfer of energy from a fluid to a rotating shaft.**

57 The reversible system for the transfer of energy from a fluid to a rotating shaft by a positive closed displacement device is characterized in that it comprises a first stationary unit (a), consisting of a cylindrical chamber directly connected to the fluid line, a second rotary unit (b), consisting of a cylindrical rotor having radial grooves associated to a shaft which extends through the top and bottom of the first unit, its axis being parallel but not coincident with the axis of the first unit, a third unit formed by a set of rolls (c) which loosely fit into the grooves and are as long as the two first mentioned units, thus ensuring that the pressure of the fluid urges the rolls against the internal surface of the chamber and that the walls of the grooves form tight movable spaces filled with fluid, the respective volumes being dependent upon the angular position of the rotor in relation to the chamber, the energy of the fluid thus being transferred to the rotating shaft or, vice versa, from the rotating shaft to the fluid.





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	LU-A- 45 341 (S.O.G.R.E.M.) * Page 5, 2 last paragraphs; page 6, first paragraph, last paragraph; pages 7,8; figures 1-3 * ---	1-4	F 01 C 1/344
X	GB-A- 577 475 (WATSON et al.) * Page 3, lines 14-27; page 3, line 110 - page 4, line 61; figures 1,2; (complete specification) * ---	1-3,5,7	
X	GB-A- 526 730 (GUINNESS) * Page 2, lines 84-100; page 3, lines 6-41,120-127; figures 1,2 * ---	1-3,6-10	
X	GB-A- 220 600 (LESPINASSE) * Page 1, line 9-end; figure * ---	1,9	
X	FR-A- 844 907 (VROLIX) * Page 1, lines 1-19; page 2, lines 23-75; figures * ---	1,8,9	
X	GB-A- 540 373 (BREWER) * Page 1, lines 55-66; page 1, line 88 - page 2, line 17; figure 1 * -----	1,2	TECHNICAL FIELDS SEARCHED (Int. Cl.4) F 01 C 1/00 F 04 C 2/00 F 04 C 18/00
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 11-12-1987	Examiner KAPOULAS T.
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			