

Title (en)  
ROTARY FLUID ENERGY CONVERTER

Publication  
**EP 0234133 B1 19890920 (EN)**

Application  
**EP 86400385 A 19860224**

Priority  
EP 86400385 A 19860224

Abstract (en)  
[origin: EP0234133A1] A rotary fluid energy converter which is used either as a hydraulic pump or as a fluid motor has a housing (1), a torque ring (2), pistons (8), a cylinder barrel (15), and chambers (13). The ring (2) is closely held against the inner surface of the housing (1) via first static pressure bearings (3) which are circumferentially regularly spaced from one another. As the ring (2) is rotated relative to the housing (1), the volumes of the chambers (13) increase and decrease cyclically. Each of the first bearings (3) has two pressure pockets (7a, 7b ; 7a, 7b, 7c) axially neighboring each other. Fluid flows out of the chambers (13) and is distributed to the corresponding pressure pockets (7a, 7b, 7c) through restrictors (40a, 40b) or through slide valve elements (50) for automatically selectively pressure fluid into said pressure pockets.

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