

Title (en)  
HYDROSTATIC ROTARY CYLINDER ENGINE

Title (de)  
HYDROSTATISCHER KREISKOLBENMOTOR

Title (fr)  
MOTEUR A PISTON ROTATIF HYDROSTATIQUE

Publication  
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Application  
**EP 05761659 A 20050712**

Priority  
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• CH 12392004 A 20040722

Abstract (en)  
[origin: WO2006010471A1] The invention relates to a hydrostatic, slow-speed rotary cylinder engine comprising a power part (1) which acts as an output, said power part comprising a central, stationary stator (4), a rotary cylinder (6) which is used as a rotor and a shaft (2) which is mounted in a central manner on both sides of the roller bearings (10, 11) which are arranged directly adjacent to the power part (1). Supply and discharge of tooth chambers comprising the working fluid is controlled by means of a disk-shaped rotational valve (3) which is mounted in a continuously centred manner in relation to the shaft (2) and the stator (4). A toothed wheel drive is arranged between a shaft external toothing (14) and an internal toothing (17) of a stationary internal toothed ring (28; 92) as a synchronous drive for the rotational valve (3). The toothed wheel drive is subsequently arranged in the leakage oil region of the engine and is formed by a planetary gear (80) or, preferably, by an eccentric gear (30).

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Citation (search report)  
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