

Title (en)

ROTARY ENGINE AND METHOD FOR DETERMINING ENGAGEMENT SURFACE CONTOURS THEREFOR

Title (de)

ROTIERENDE MASCHINE UND VERFAHREN ZUR BESTIMMUNG DER KONTAKTFLÄCHENKONTUR

Title (fr)

MOTEUR ROTATIF ET PROCEDE PERMETTANT DE DETERMINER LES CONTOURS DE SES SURFACES DE CONTACT

Publication

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Application

EP 99925884 A 19990526

Priority

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- US 8683898 P 19980526

Abstract (en)

[origin: WO9961753A1] An improved rotary engine (10) and method for determining the contours of the sealing surfaces (24, 34) thereof. The improved engine provides for maintaining a predetermined, optimal gap (IG) between the sealing surfaces during rotation. The gap may be parallel or angled, and may be positive or negative so as to form an interference engagement. The rotors (112, 114) of the engine may be provided with mirror-image sealing surfaces (160, 162, 166, 168) so as to prevent development of excessive back-lash and clearance, and also to permit efficient reverse operation. The sealing surfaces (200, 212) may also be provided with recesses (208) for interrupting the seal at predetermined points in the rotational cycle, for enhanced wear characteristics and/or to accommodate abrasive or shear-sensitive fluids.

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