

Title (en)  
ROTARY PISTON ENGINE

Publication  
**EP 0063240 B1 19860910 (DE)**

Application  
**EP 82102196 A 19820318**

Priority  
CH 248281 A 19810414

Abstract (en)  
[origin: US4561836A] A rotary piston machine, in order to avoid losses due to compressed flows, has adjacent to a generating and/or sealing contact edge (21, 22) at least one recess (11a, 11e) and/or opening (12a, 12b) which extends beyond the contact curve (14a-14c) in at least approximately the direction of motion of the surfaces moving in relation to each other during the stroke or passage of the piston (6a") through the shut-off driver. The spatial dimensions of the recesses and/or opening are such that the flow in it is not substantially accelerated even when the direction is changed. An opening (11g, 11g') can be closed insofar as it is located in a nonmoving ring (6b). To prevent low pressures between surfaces moving away from each other (9c, 14c) a pressure compensation space (11e) is connected to the contact line (14c) of one of the surfaces.

IPC 1-7  
**F04C 2/28**; **F01C 1/20**; **F04C 18/08**

IPC 8 full level  
**F02B 53/00** (2006.01); **F01C 1/08** (2006.01); **F01C 1/12** (2006.01); **F01C 1/20** (2006.01); **F04C 2/28** (2006.01); **F04C 18/08** (2006.01)

CPC (source: EP US)  
**F01C 1/088** (2013.01 - EP US); **F01C 1/20** (2013.01 - EP US)

Cited by  
US4626182A; AU567706B2; GB2133473A; WO2010016809A1

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