

Title (en)  
**RADIAL SEALING**

Publication  
**EP 0383143 A3 19910227 (DE)**

Application  
**EP 90102257 A 19900206**

Priority  
**US 30950989 A 19890213**

Abstract (en)  
[origin: US4931001A] A rotary internal combustion engine includes a rotor with apex seals installed in slots which extend axially through apexes of the rotor. Each apex seal includes at least one passage which extends therethrough in a circumferential direction to equalize gas pressure on opposite sides of the apex seal. An insert formed out of a low friction material is loosely received in each passage to reduce the volume exposed to gas pressure.

IPC 1-7  
**F01C 19/04**

IPC 8 full level  
**F02B 55/02** (2006.01); **F01C 19/04** (2006.01)

CPC (source: EP US)  
**F01C 19/04** (2013.01 - EP US)

Citation (search report)

- [X] DE 1154316 B 19630912 - DAIMLER BENZ AG
- [A] DE 1151992 B 19630725 - DAIMLER BENZ AG
- [A] US 3261334 A 19660719 - HANNS-DIETER PASCHKE

Designated contracting state (EPC)  
**DE FR GB IT**

DOCDB simple family (publication)  
**US 4931001 A 19900605**; CA 2008711 A1 19900813; DE 59000082 D1 19920521; EP 0383143 A2 19900822; EP 0383143 A3 19910227; EP 0383143 B1 19920415; JP H02241927 A 19900926

DOCDB simple family (application)  
**US 30950989 A 19890213**; CA 2008711 A 19900126; DE 59000082 T 19900206; EP 90102257 A 19900206; JP 3228390 A 19900213