Title (en)

SYSTEM FOR SEALING THE PISTON OF ROTARY PISTON MACHINES

Title (de)

SYSTEM ZUR ABDICHTUNG DES KOLBENS VON ROTATIONSKOLBENMASCHINEN

Title (fr)

SYSTÈME D'ÉTANCHÉITÉ POUR LE PISTON DE MACHINES À PISTON ROTATIF

Publication

EP 2100009 A1 20090916 (DE)

Application

EP 07822696 A 20071119

Priority

- EP 2007062488 W 20071119
- DE 102006057003 A 20061202

Abstract (en)

[origin: CA2671017A1] Sealing system of rotary piston machines, characterized in that the rotor comprises rotor discs (1, 2) which are arranged next to one another, are se ated on the common rotor axle and are pressed apart from one another by acti ng spring and/or gas forces in the joints (11) between the discs in such a w ay that those end sides (6, 8) of the discs (1, 2) which point towards the s ide walls of the housing bear sealingly against the latter and thus prevent the access of the medium to the axles. Assemblies comprising movable shaped lamellae (3, 4) which adapt to the changing joint widths and prevent an inne r flow around the rotor are present in the part joints between the discs (1, 2).

IPC 8 full level

F01C 19/04 (2006.01); **F01C 1/22** (2006.01); **F01C 19/08** (2006.01); **F01C 21/08** (2006.01)

CPC (source: EP KR US)

F01C 19/04 (2013.01 - EP US); **F01C 19/08** (2013.01 - EP US); **F01C 19/10** (2013.01 - KR); **F01C 21/08** (2013.01 - EP US); **F01C 21/0881** (2013.01 - EP US); **F04C 2/344** (2013.01 - KR); **F04C 18/344** (2013.01 - KR); F01C 1/22 (2013.01 - EP US)

Citation (search report)

See references of WO 2008065017A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

DE 102006057003 A1 20080605; AU 2007326323 A1 20080605; AU 2007326323 B2 20130801; BR PI0719694 A2 20131224; CA 2671017 A1 20080605; CA 2671017 C 20140121; CN 101558218 A 20091014; CN 101558218 B 20120321; EP 2100009 A1 20090916; EP 2100009 B1 20160316; EP 2450530 A1 20120509; EP 2450530 B1 20160323; JP 2010511822 A 20100415; JP 4926252 B2 20120509; KR 20090096497 A 20090910; RU 2009125224 A 20110110; RU 2463458 C2 20121010; US 2010150762 A1 20100617; US 8920147 B2 20141230; WO 2008065017 A1 20080605

DOCDB simple family (application)

DE 102006057003 A 20061202; AU 2007326323 A 20071119; BR PI0719694 A 20071119; CA 2671017 A 20071119; CN 200780044590 A 20071119; EP 07822696 A 20071119; EP 11179629 A 20071119; EP 2007062488 W 20071119; JP 2009538679 A 20071119; KR 20097013910 A 20071119; RU 2009125224 A 20071119; US 31252407 A 20071119