

Title (en)

METHOD FOR OPERATING A LIQUID RING COMPRESSOR

Title (de)

VERFAHREN ZUM BETRIEB EINES FLÜSSIGRINGVERDICHTERS

Title (fr)

PROCEDE PERMETTANT DE FAIRE FONCTIONNER UN COMPRESSEUR A ANNEAU LIQUIDE

Publication

EP 1794458 A1 20070613 (DE)

Application

EP 05787840 A 20050916

Priority

- EP 2005009981 W 20050916
- DE 102004045173 A 20040917

Abstract (en)

[origin: WO2006029884A1] The invention relates to a method for operating a liquid ring compressor provided with an impeller which is received in an eccentric manner in a compressor housing. Gas is guided to the suction side of the liquid ring compressor and gas is withdrawn from the pressure side of the liquid ring compressor. A liquid ring is produced on the inner side of the compressor housing by rotating the impeller in the liquid ring compressor. Chambers are embodied between blades of the impeller and the liquid ring, wherein gas is suctioned. The gas is compressed in the chambers which reduce in an inward manner from the suction side to the pressure side based on the rotation of the eccentric arrangement of the impeller. The compressed gas is pushed out on the pressure side. An ionic liquid is used as an operational liquid in order to produce the liquid ring compressor.

IPC 8 full level

F04C 19/00 (2006.01)

CPC (source: EP KR US)

F04C 19/00 (2013.01 - KR); **F04C 19/004** (2013.01 - EP US); **C10N 2020/077** (2020.05 - EP US); **C10N 2040/30** (2013.01 - EP US); **F04C 2210/12** (2013.01 - EP US)

Citation (search report)

See references of WO 2006029884A1

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2006029884 A1 20060323; CN 101023270 A 20070822; CN 101023270 B 20110713; EP 1794458 A1 20070613; JP 2008513660 A 20080501; KR 20070053265 A 20070523; US 2007269309 A1 20071122; US 7927080 B2 20110419

DOCDB simple family (application)

EP 2005009981 W 20050916; CN 200580031478 A 20050916; EP 05787840 A 20050916; JP 2007531692 A 20050916; KR 20077006092 A 20070316; US 66285105 A 20050916