

Title (en)
ROTATIVE VALVES FOR RECIPROCATING COMPRESSORS AND RELATED METHODS

Title (de)
DREHVENTILE FÜR HUBKOLBENVERDICHTER UND ZUGEHÖRIGE VERFAHREN

Title (fr)
SOUPAPES ROTATIVES POUR COMPRESSEURS ALTERNATIFS ET PROCÉDÉS ASSOCIÉS

Publication
EP 2844876 A1 20150311 (EN)

Application
EP 13721651 A 20130502

Priority
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Abstract (en)
[origin: WO2013164385A1] Reciprocating compressors 300 having a rotative valve 340 and related methods are provided. A reciprocating compressor 300 has (1) a compression chamber 310 configured to compress a fluid that has entered the compression chamber via an intake, and it is discharged from the compression chamber, after being compressed, via a discharge, (2) an actuator 350 configured to supply an angular displacement, and (3) a rotative valve 340 configured to receive the angular displacement and to determine whether the intake and the discharge are opened or closed depending on the angular displacement. The rotative valve 340 has a rotatable disk configured to rotate due to the angular displacement and having a first opening allowing a suction fluid flow to enter the compression chamber when the first opening overlaps the intake, and a second opening allowing a discharge fluid flow to exit from the compression chamber when the second opening overlaps the discharge.

IPC 8 full level
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Citation (search report)
See references of WO 2013164385A1

Citation (examination)
• US 5988133 A 19991123 - AGAPIADES THOMAS [US], et al
• US 4418658 A 19831206 - DIROSS JAMES [US]
• US 2288774 A 19420707 - BECKMAN WILLIAM R
• US 4754949 A 19880705 - FUKAMACHI RIKUO [JP]

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KR 20150006451 A 20150116; MX 2014013261 A 20150205; MX 369235 B 20191101; RU 2014141997 A 20160620; RU 2631471 C2 20170922;
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