

Title (en)  
ROTATIONAL CLAP SUCTION/PRESSURE DEVICE

Title (de)  
ANSAUG-/DRUCKVORRICHTUNG MIT EINER DREHKLAPPE

Title (fr)  
DISPOSITIF DE PRESSION/D'ASPIRATION PAR CLAQUEMENT DE ROTATION

Publication  
**EP 2690288 A4 20150729 (EN)**

Application  
**EP 12760222 A 20120308**

Priority  

- KR 20110026037 A 20110323
- KR 20110117995 A 20111114
- KR 20110123963 A 20111125
- KR 2012001710 W 20120308

Abstract (en)  
[origin: EP2690288A2] The present invention relates to a simple and straightforward positive displacement suction/pressure device (rotational clap suction/pressure device) for utilizing in general industrial flow machines, such as various positive displacement pumps, vacuum pumps, compressors, flow meters, and rotary internal combustion engines. The object of the present invention using a double non-uniform rotation is to provide a simple and durable mechanical device having improved efficiency, by replacing the existing linear contact between various types of rotors or between a rotor and a housing, which is a problem in existing positive displacement flow machines and rotary internal combustion engines, with a whole surface.

IPC 8 full level  
**F01C 1/077** (2006.01); **F04C 2/077** (2006.01)

CPC (source: EP US)  
**F01C 1/077** (2013.01 - EP US); **F04C 2/077** (2013.01 - EP US); **F04C 15/0061** (2013.01 - EP US); **F04C 18/08** (2013.01 - US)

Citation (search report)  

- [X] US 6461127 B1 20021008 - KIM EUN KYUE [KR]
- [A] JP H05187251 A 19930727 - MASAMI SAKITA
- [A] US 3685928 A 19720822 - MUNZINGER FRIEDRICH
- See references of WO 2012128493A2

Cited by  
WO2016116836A1; WO2020078934A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2690288 A2 20140129; EP 2690288 A4 20150729**; CN 103443465 A 20131211; US 2014056747 A1 20140227;  
WO 2012128493 A2 20120927; WO 2012128493 A3 20121115

DOCDB simple family (application)  
**EP 12760222 A 20120308**; CN 201280014600 A 20120308; KR 2012001710 W 20120308; US 201214006566 A 20120308