

Title (en)
MULTI-INLET VACUUM PUMP

Title (de)
MULTI-INLET-VAKUUMPUMPE

Title (fr)
POMPE À VIDE À PLUSIEURS ENTRÉES

Publication
EP 2401505 B1 20180926 (DE)

Application
EP 10711634 A 20100223

Priority
• EP 2010052282 W 20100223
• DE 102009011082 A 20090228

Abstract (en)
[origin: WO2010097384A2] The invention relates to a multi-inlet vacuum pump having a first pump device (10) provided with a first rotor element (18) comprising several first rotor disks (20) which are arranged successively in the conveying direction (36), and a second pump device (12) provided with a second rotor element (26) comprising several second rotor disks (28) which are arranged successively in the conveying direction (36). The diameter of the second rotor disks (28) is at least partially greater than the diameter of the first rotor disks (20). The claimed multi-inlet vacuum pump also comprises a main inlet (32) through which a first fluid flow (34) is suctioned by the first pump device (10) and is conveyed in the direction of the second pump device (12). Furthermore, said pump comprises an intermediate inlet (38) through which a second fluid flow (40) is suctioned by the second pump device (12) and is conveyed in the direction of a pump outlet. Both fluid flows (34, 40) are joined inside the second pump device (12), in particular between two adjacent rotor disks (28) of the second pump device (12).

IPC 8 full level
F04D 19/04 (2006.01)

CPC (source: EP US)
F04D 19/042 (2013.01 - EP US); **F04D 19/046** (2013.01 - EP US)

Designated contracting state (EPC)
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 SE SI SK SM TR

DOCDB simple family (publication)
DE 102009011082 A1 20100902; EP 2401505 A2 20120104; EP 2401505 B1 20180926; JP 2012519247 A 20120823; JP 5553847 B2 20140716; TW 201040394 A 20101116; US 2011311348 A1 20111222; US 8926266 B2 20150106; WO 2010097384 A2 20100902; WO 2010097384 A3 20101118

DOCDB simple family (application)
DE 102009011082 A 20090228; EP 10711634 A 20100223; EP 2010052282 W 20100223; JP 2011551484 A 20100223; TW 99104550 A 20100212; US 201013203309 A 20100223