

Title (en)

Two stage conical liquid ring pump having removable manifold, shims and first and second stage head o'ring receiving boss

Title (de)

Konische Zweistufen-Flüssigkeitsringpumpe mit abnehmbarer Stufenkopf-O-Ring-Aufnahmenabe

Title (fr)

Pompe à anneau liquide conique à deux étages dotée d'un bossage de réception de joint torique de tête d'étage amovible

Publication

EP 1892419 A2 20080227 (EN)

Application

EP 07253024 A 20070801

Priority

- US 82214706 P 20060811
- US 56118606 A 20061117

Abstract (en)

A first head of a liquid ring pump has an inlet, an outlet, a shaft receiving aperture extending there through, and an internal end. The internal end includes a boss with a side wall. The boss is received by a pump body. An interstage manifold is removeably coupled to the pump without being integral with or connected to the pump body. An o-ring can be located between a side wall of the boss and an internal side wall of the body.

IPC 8 full level

F04C 19/00 (2006.01)

CPC (source: EP KR US)

F04C 19/00 (2013.01 - EP KR US); **F04C 19/008** (2013.01 - EP US); **F04C 23/001** (2013.01 - EP US); **F04D 29/00** (2013.01 - KR)

Citation (applicant)

- US 4521161 A 19850604 - OLSEN OLE B [US], et al
- US 5899668 A 19990504 - SHENOI RAMESH B [US], et al
- US 4551070 A 19851105 - OLSEN OLE B [US], et al
- EP 2534641 A2 20121219 - UNI POMPEU FABRA [ES], et al

Cited by

EP2446145A4; US10054122B2

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

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1892419 A2 20080227; **EP 1892419 A3 20090812**; AU 2007203697 A1 20080228; BR PI0703356 A 20080401; CA 2594033 A1 20080211; JP 2008045551 A 20080228; KR 20080014658 A 20080214; MX 2007009473 A 20090204; US 2008038120 A1 20080214

DOCDB simple family (application)

EP 07253024 A 20070801; AU 2007203697 A 20070807; BR PI0703356 A 20070803; CA 2594033 A 20070718; JP 2007209590 A 20070810; KR 20070080146 A 20070809; MX 2007009473 A 20070806; US 56118606 A 20061117