

Title (en)  
Pump having interchangeable heads

Title (de)  
Pumpe mit auswechselbaren Köpfen

Title (fr)  
Pompe ayant des têtes interchangeables

Publication  
**EP 2896832 A1 20150722 (EN)**

Application  
**EP 14192774 A 20141112**

Priority  
• US 201361909894 P 20131127  
• US 201414252530 A 20140414

Abstract (en)  
A pump comprising a housing (12) having a head carrying area (18), a motor (14) disposed within the housing (12), a rotor (17) rotated by the motor (14), and a pump head assembly (100) mounted to the head mount of the housing (12), the pump head assembly (100) being one of a piston head assembly (100) or a diaphragm head assembly. The head carrying area (18) is configured such that the piston head assembly (100) and the diaphragm head assembly may be interchangeably mountable thereon. The head carrying area (18) comprises a cylinder seat (36) surrounding an aperture (34) and a radially outward of the aperture (34). The sidewall (22) may also have a step (28). The cylinder seat (36) may be sized to receive a cylinder (118) of the piston head assembly (100) and the annular step (28) of the annular sidewall (22) may be configured to receive a diaphragm support ring of the diaphragm head assembly.

IPC 8 full level  
**F04B 39/12** (2006.01); **F04B 39/14** (2006.01)

CPC (source: EP US)  
**F04B 39/125** (2013.01 - EP US); **F04B 39/127** (2013.01 - EP US); **F04B 39/14** (2013.01 - EP US); **F04B 43/02** (2013.01 - EP US); **F04B 53/22** (2013.01 - EP US)

Citation (search report)  
• [XII] EP 1114933 A2 20010711 - TECHNO TAKATSUKI CO LTD [JP]  
• [XII] US 5364234 A 19941115 - EICKMANN KARL [JP]  
• [XII] US 2008050251 A1 20080228 - ZABAR NACHUM [IL]  
• [XII] US 4498372 A 19850212 - PAREJA RAMON [US]

Cited by  
WO2018187605A1

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**US 2015147202 A1 20150528**; CN 104806515 A 20150729; EP 2896832 A1 20150722; JP 2015102093 A 20150604

DOCDB simple family (application)  
**US 201414252530 A 20140414**; CN 201410658818 A 20141118; EP 14192774 A 20141112; JP 2014233614 A 20141118