

Title (en)

SEALING ASSEMBLY FOR A HIGH-PRESSURE PUMP AND HIGH-PRESSURE PUMP WITH THE SAME

Title (de)

DICHTUNGSANORDNUNG FÜR EINE HOCHDRUCKPUMPE SOWIE HOCHDRUCKPUMPE MIT EINER SOLCHEN

Title (fr)

DISPOSITIF D'ÉTANCHÉITÉ POUR UNE POMPE HAUTE PRESSION ET POMPE HAUTE PRESSION DOTÉE D'UN TEL DISPOSITIF D'ÉTANCHÉITÉ

Publication

EP 3140550 B1 20180606 (DE)

Application

EP 15718826 A 20150414

Priority

- EP 14167034 A 20140505
- EP 2015058067 W 20150414

Abstract (en)

[origin: WO2015169548A1] What is proposed is a seal arrangement for sealing a pressure space (2) in a high-pressure pump, which is bounded by a first and a second bounding element (3, 4), with a separate seal element (5) which has a first sealing face (51) for cooperating with the first bounding element (3) and a second sealing face (52) for cooperating with the second bounding element (4), wherein the two sealing faces (51, 52) are inclined with respect to one another and each has a slot (53, 54) for receiving a seal ring (55), and wherein the seal element (5) is arranged and configured such that, when pressurized, it is displaceable all along one of the bounding elements (3, 4). Also proposed is a high-pressure pump with such a seal arrangement.

IPC 8 full level

F04D 29/08 (2006.01)

CPC (source: CN EP KR RU US)

F04D 29/08 (2013.01 - RU); **F04D 29/086** (2013.01 - CN EP KR US)

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)

WO 2015169548 A1 20151112; AU 2015258040 A1 20161110; AU 2015258040 B2 20181101; BR 112016023078 A2 20170815; BR 112016023078 B1 20220802; CA 2941677 A1 20151112; CN 106232995 A 20161214; CN 106232995 B 20190903; EP 3140550 A1 20170315; EP 3140550 B1 20180606; ES 2674258 T3 20180628; KR 20160148522 A 20161226; MX 2016013774 A 20170120; RU 2016145419 A 20180605; RU 2016145419 A3 20180814; RU 2668052 C2 20180925; SG 11201607376V A 20161229; US 10584710 B2 20200310; US 2017122331 A1 20170504

DOCDB simple family (application)

EP 2015058067 W 20150414; AU 2015258040 A 20150414; BR 112016023078 A 20150414; CA 2941677 A 20150414; CN 201580021167 A 20150414; EP 15718826 A 20150414; ES 15718826 T 20150414; KR 20167027735 A 20150414; MX 2016013774 A 20150414; RU 2016145419 A 20150414; SG 11201607376V A 20150414; US 201515300433 A 20150414