

Title (en)
ROTARY FLUID PUMP

Title (de)
ROTATIONSFLÜSSIGKEITSPUMPE

Title (fr)
POMPE À FLUIDE ROTATIVE

Publication
EP 3240958 A1 20171108 (EN)

Application
EP 15841050 A 20151228

Priority
• IT TO20141112 A 20141229
• IB 2015060006 W 20151228

Abstract (en)
[origin: WO2016108171A1] Pump for fluids (10) comprising a hollow body (11) having a substantially cylindrical cavity (25) where a rotor and at least one vane are mounted. The cavity is connected with at least one inlet port (112, 113) and with an outlet port (115) configured to allow the inflow of a fluid into the internal cavity and the outflow of the fluid from the internal cavity, respectively. The pump also includes at least one vacuum inlet valve (12, 13) mounted on the respective inlet port (112, 113) and connected to a suction channel for the inflow of a fluid into the cavity, and a discharge valve (15) mounted on the outlet port (115) and connected with an outlet channel for the outflow of the fluid from the cavity. The pump further includes a bore (118), a first lubrication duct (120) and a second lubrication duct (20), formed in the body (11) and connected together, through which lubrication oil is sent into the cavity from a lubrication circuit. The pump lastly includes a connecting duct (21) configured to connect the cavity of the pump with a region at atmospheric pressure outside the pump, and a drain valve (16) configured to selectively connect either the second lubrication duct (20) with the pump cavity or the connecting duct (21) with the region at atmospheric pressure outside the pump.

IPC 8 full level
F04C 2/344 (2006.01); **F04C 15/06** (2006.01); **F04C 18/344** (2006.01); **F04C 29/12** (2006.01)

CPC (source: EP)
F04C 18/3441 (2013.01); **F04C 29/128** (2013.01); **F04C 2220/10** (2013.01); **F04C 2270/46** (2013.01)

Citation (search report)
See references of WO 2016108171A1

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)
WO 2016108171 A1 20160707; EP 3240958 A1 20171108

DOCDB simple family (application)
IB 2015060006 W 20151228; EP 15841050 A 20151228