

Title (en)
WATER JET TYPE PUMP AND METHOD FOR OPERATION THEREOF

Title (de)
PUMPE NACH ART EINER WASSERSTRAHLPUMPE SOWIE VERFAHREN ZU DEREN BETRIEB

Title (fr)
POMPE DE TYPE ÉJECTEUR À EAU ET SON PROCÉDÉ DE FONCTIONNEMENT

Publication
EP 2307739 A1 20110413 (DE)

Application
EP 09779283 A 20090409

Priority
• EP 2009054320 W 20090409
• DE 102008032825 A 20080711

Abstract (en)
[origin: WO2010003707A1] The water jet type pump (2) is part of a system (1) for generating an ultrahigh vacuum HV. The pump comprises at least one pump chamber (11) through which an ionic fluid (F) flows at high velocity. The chamber (11) comprises a first fluid feed (3) for the fluid F, said feed ending in a nozzle with a nozzle opening (3a), and a fluid discharge (5). A second feed (4) of the pump chamber (11) is connected to a high pressure chamber (10) to be evacuated. Gas is suctioned out of the high vacuum chamber (10) through the second feed (4) by way of the flowing fluid jet, which is used to discharge the gas out of the pump chamber (11).

IPC 8 full level
F04F 5/04 (2006.01); **F04F 5/54** (2006.01)

CPC (source: EP US)
F04F 5/04 (2013.01 - EP US); **F04F 5/54** (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 TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
DE 102008032825 B3 20100114; CN 102089527 A 20110608; EP 2307739 A1 20110413; JP 2011527397 A 20111027; RU 2011105023 A 20120820; RU 2463487 C1 20121010; US 2011110796 A1 20110512; WO 2010003707 A1 20100114

DOCDB simple family (application)
DE 102008032825 A 20080711; CN 200980126875 A 20090409; EP 09779283 A 20090409; EP 2009054320 W 20090409; JP 2011517045 A 20090409; RU 2011105023 A 20090409; US 73740709 A 20090409