

Title (en)
HALL-EFFECT THRUSTER

Title (de)
HALLEFFEKT-SCHUBDÜSE

Title (fr)
PROPULSEUR A EFFET HALL

Publication
EP 2715131 B1 20150708 (FR)

Application
EP 12731043 A 20120523

Priority
• FR 1154713 A 20110530
• FR 2012051155 W 20120523

Abstract (en)
[origin: WO2012164203A1] The invention relates to a Hall-effect thruster that includes at least one high-pressure gas tank (101), a pressure-control module (103), a device for controlling the gas flow rate (105), an ionisation channel, a cathode (40A, 40B) arranged adjacent to the output of the ionisation channel, an anode combined with the ionisation channel, a power supply unit (110), an electric filter (120), and coils for creating a magnetic field around the ionisation channel. The Hall-effect thruster further includes an additional power supply unit (125) for applying a pulsed voltage between the anode and the cathode (40A, 40B).

IPC 8 full level
F03H 1/00 (2006.01)

CPC (source: EP US)
F03H 1/0018 (2013.01 - EP US); **F03H 1/0062** (2013.01 - US); **F03H 1/0068** (2013.01 - US); **F03H 1/0075** (2013.01 - EP US);
F03H 1/0087 (2013.01 - EP 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 2012164203 A1 20121206; CN 103562549 A 20140205; CN 103562549 B 20160615; EP 2715131 A1 20140409; EP 2715131 B1 20150708; FR 2976029 A1 20121207; FR 2976029 B1 20160311; IL 229558 A0 20140130; IL 229558 B 20180228; JP 2014519573 A 20140814; JP 6096763 B2 20170315; RU 2013156296 A 20150710; RU 2594939 C2 20160820; US 2014090357 A1 20140403; US 9347438 B2 20160524

DOCDB simple family (application)
FR 2012051155 W 20120523; CN 201280026884 A 20120523; EP 12731043 A 20120523; FR 1154713 A 20110530; IL 22955813 A 20131121; JP 2014513230 A 20120523; RU 2013156296 A 20120523; US 201214123175 A 20120523