

Title (en)  
HALL EFFECT PLASMA THRUSTER

Title (de)  
HALL-EFFEKT-PLASMATRIEBWERK

Title (fr)  
PROPULSEUR A PLASMA A EFFET HALL

Publication  
**EP 2433002 B1 20180103 (FR)**

Application  
**EP 10728782 A 20100519**

Priority  
• FR 2010050963 W 20100519  
• FR 0953370 A 20090520

Abstract (en)  
[origin: WO2010133802A1] The invention relates to a Hall effect plasma thruster including a main annular ionization and acceleration channel (120) having an open downstream end (129), at least one cathode, an annular anode that is concentric with the main annular channel (120), a pipe and a dispenser for feeding an ionizable gas into the channel (120), and a magnetic circuit for generating a magnetic field in the main annular channel (120). The main annular channel (120) includes portions of inner (127) and outer (128) annular walls located in the vicinity of the open end and (129) each including an assembly of conductive or semiconducting rings (150) juxtaposed in the form of blades separated by thin layers of insulation (152).

IPC 8 full level  
**F03H 1/00** (2006.01)

CPC (source: EP US)  
**F03H 1/0075** (2013.01 - EP US); **F03H 1/0062** (2013.01 - US); **H01J 27/143** (2013.01 - US); **H05H 1/54** (2013.01 - 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 SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2010133802 A1 20101125**; CN 102439305 A 20120502; EP 2433002 A1 20120328; EP 2433002 B1 20180103; ES 2660213 T3 20180321; FR 2945842 A1 20101126; FR 2945842 B1 20110701; RU 2011149159 A 20130627; RU 2527267 C2 20140827; US 2012117938 A1 20120517; US 9127654 B2 20150908

DOCDB simple family (application)  
**FR 2010050963 W 20100519**; CN 201080021990 A 20100519; EP 10728782 A 20100519; ES 10728782 T 20100519; FR 0953370 A 20090520; RU 2011149159 A 20100519; US 201013321292 A 20100519