

Title (en)
Electron closed drift thruster

Title (de)
Antrieb mit geschlossenem Elektronenlaufbahn

Title (fr)
Propulseur à dérive fermée d'électrons

Publication
EP 2211056 B1 20150311 (FR)

Application
EP 10151687 A 20100126

Priority
FR 0950486 A 20090127

Abstract (en)
[origin: EP2211056A1] The thruster has a magnetic circuit for creating magnetic field in a main annular ionization and acceleration channel. The circuit has external and internal radial polar pieces (134, 135) defining an internal concave peripheral surface (134a) and an external convex peripheral surface (135a), respectively. Each surface has an adjusted profile different from a circular cylindrical surface to form a variable width air gap. The width of the gap is maximum in zones (232) at the right of external coils and minimum in zones (231) between the coils to create a uniform radial magnetic field.

IPC 8 full level
F03H 1/00 (2006.01)

CPC (source: EP US)
F03H 1/0075 (2013.01 - EP US)

Cited by
RU2702709C1; CN103108482A; CN107687404A; CN110230581A; CN111005849A; CN115822905A

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DOCDB simple family (publication)
EP 2211056 A1 20100728; EP 2211056 B1 20150311; FR 2941503 A1 20100730; FR 2941503 B1 20110304; IL 203365 A 20140731; JP 2010174894 A 20100812; JP 5615565 B2 20141029; RU 2010102004 A 20110727; RU 2509918 C2 20140320; US 2010188000 A1 20100729; US 8129913 B2 20120306

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EP 10151687 A 20100126; FR 0950486 A 20090127; IL 20336510 A 20100118; JP 2010031766 A 20100127; RU 2010102004 A 20100125; US 69370510 A 20100126