Title (en)

FIXED PLASMA MOTOR

Title (de)

PLASMATRIEBWERK MIT GESCHLOSSENER ELEKTRONENLAUFBAHN

Title (fr)

MOTEUR A PLASMA A DERIVE FERMEE D'ELECTRONS

Publication

EP 0650557 B1 19970507 (FR)

Application

EP 92919481 A 19920901

Priority

- CA 2142607 A 19930621
- FR 9200836 W 19920901
- FR 9208744 A 19920715

Abstract (en)

[origin: FR2693770A1] The plasma motor comprises a primary ionization and acceleration annular canal (24) delimited by parts (22) made of insulating material and open at its downstream end (225), at least one hollow cathode (40) associated with means (41) for supplying gas capable of being ionized, and an annular anode (25) concentric with said main annular canal (24) and placed at a distance from the open downstream end (225). An annular buffer chamber (24) which has, radially, a larger size than that of the main annular canal (24) extends upstream of the latter beyond the area in which is placed the annular anode (25). Means (26) for supplying gas capable of being ionized open upstream of the anode (25) through an annular distributor (27) into an area separated from the area carrying the anode (25). Means (31 to 33, 34 to 38) for creating a magnetic field in the main canal (24) are adapted to produce in said main canal (24) an essentially radial magnetic field having a gradient with maximum induction at the downstream end (225) of said canal (24).

IPC 1-7

F03H 1/00; H05H 1/54

IPC 8 full level

F03H 1/00 (2006.01); **H05H 1/54** (2006.01)

CPC (source: EP US)

F03H 1/0075 (2013.01 - EP US); **H05H 1/54** (2013.01 - EP US)

Cited by

CN103953517A

Designated contracting state (EPC)

CH DE ES GB IT LI NL SE

DOCDB simple family (publication)

FR 2693770 A1 19940121; **FR 2693770 B1 19941014**; CA 2142607 A1 19950105; DE 69219625 D1 19970612; DE 69219625 T2 19971113; EP 0650557 A1 19950503; EP 0650557 B1 19970507; ES 2101870 T3 19970716; JP 3083561 B2 20000904; JP H08500930 A 19960130; RU 2121075 C1 19981027; RU 95105253 A 19961027; US 5581155 A 19961203; WO 9402738 A1 19940203; WO 9402739 A1 19940203

DOCDB simple family (application)

FR 9208744 A 19920715; CA 2142607 A 19930621; DE 69219625 T 19920901; EP 92919481 A 19920901; ES 92919481 T 19920901; FR 9200836 W 19920901; FR 9300610 W 19930621; JP 50418794 A 19920901; RU 95105253 A 19920901; US 36727995 A 19950112