

Title (en)
HALL EFFECT ION EJECTION DEVICE

Title (de)
HALLEFFEKT-IONENAUSWURFEINRICHTUNG

Title (fr)
DISPOSITIF D'EJECTION D'IONS A EFFET HALL

Publication
EP 2179435 A1 20100428 (FR)

Application
EP 08786854 A 20080804

Priority
• EP 2008060241 W 20080804
• FR 0705658 A 20070802

Abstract (en)
[origin: WO2009016264A1] The invention relates to a Hall-effect ion ejection device that comprises a longitudinal axis (00') substantially parallel to the ion ejection direction, and comprises at least: a main ionisation and acceleration annular channel (21), the annular channel (21) being open at its end; an anode (26) extending inside the channel (21); a cathode (30) extending outside the channel (21) at the outlet thereof; a magnetic circuit (4) for generating a magnetic field in a portion of the annular channel (21), said circuit including at least an annular inner wall (22), an annular outer wall (23) and a bottom (8) connecting the inner (22) and outer (23) annular walls and defining the downstream portion of the magnetic circuit (4); characterised in that the magnetic circuit (4) is arranged so as to create at the outlet of the annular channel (21) a magnetic field independent from the azimuth.

IPC 8 full level
H01J 27/02 (2006.01); **F03H 1/00** (2006.01)

CPC (source: EP US)
F03H 1/0075 (2013.01 - EP US); **H01J 27/02** (2013.01 - EP US)

Citation (search report)
See references of WO 2009016264A1

Cited by
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