

Title (en)  
HALL EFFECT ION EJECTION DEVICE

Title (de)  
HALLEFFEKT-IONENAUSWURFEINRICHTUNG

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

Publication  
**EP 2179435 B1 20190410 (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  
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CPC (source: EP US)  
**F03H 1/0075** (2013.01 - EP US); **H01J 27/02** (2013.01 - EP US)

Citation (examination)  
• US 2004195521 A1 20041007 - ALEKSEEV VALERY V [RU], et al  
• EP 0310223 A1 19890405 - MAGHEMITE INC [CA]  
• ANONYMOUS: "Ferrite (magnet)", 28 July 2007 (2007-07-28), XP055480875, Retrieved from the Internet <URL:https://en.wikipedia.org/w/index.php?title=Ferrite\_(magnet)&oldid=147655184> [retrieved on 20180604]

Cited by  
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DOCDB simple family (publication)  
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