

Title (en)

CHANNEL SPARK SOURCE FOR GENERATING A STABLY FOCUSED ELECTRON BEAM

Title (de)

KANALFUNKENQUELLE ZUR ERZEUGUNG EINES STABIL GEBÜNDELTEN ELEKTRONENSTRAHLS

Title (fr)

SOURCE D'ETINCELLE DE CANAL CONCUE POUR PRODUIRE UN FAISCEAU ELECTRONIQUE STABLEMENT FOCALISE

Publication

**EP 1479090 A2 20041124 (DE)**

Application

**EP 03702521 A 20030124**

Priority

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- EP 0300719 W 20030124

Abstract (en)

[origin: US2005012441A1] In a channel spark source triggered by gas discharge for generating a stable focused electron beam, a gas supply for a hollow cathode thereof is provided which generates in the hollow cathode a pressure differential so that the multiplication of charge carriers in a trigger plasma of a trigger plasma source connected to the hollow cathode provides for a reliable gas discharge and the formation of a stable electron beam which exits the arrangement and which does not damage the internal passages of the arrangement.

IPC 1-7

**H01J 1/02**; **H01J 3/02**; **H05H 1/24**

IPC 8 full level

**C23C 14/30** (2006.01); **H01J 1/02** (2006.01); **H01J 3/02** (2006.01); **H01J 37/077** (2006.01); **H05H 1/24** (2006.01)

CPC (source: EP US)

**H01J 1/025** (2013.01 - EP US); **H01J 3/025** (2013.01 - EP US); **H05H 1/52** (2013.01 - EP US)

Citation (search report)

See references of WO 03071577A2

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