

Title (en)
Ion source with four electrodes.

Title (de)
Ionenquelle mit vier Elektroden.

Title (fr)
Source d'ions à quatre électrodes.

Publication
EP 0295743 A1 19881221 (FR)

Application
EP 88201173 A 19880608

Priority
FR 8708196 A 19870612

Abstract (en)
Vacuum arc ion-source comprising an anode (2 or 3) and a cathode (1) which are arranged facing one another, and are brought to different potentials, and in which the plasma (7) is emitted perpendicularly to the surface of the cathode. This plasma is projected by means of two suitably polarised free-standing gates (4 and 5). <??>Application to the implanting of metal ions. <IMAGE> <IMAGE>

IPC 1-7
H01J 27/02; **H01J 27/08**; **H01J 49/12**

IPC 8 full level
H01J 27/02 (2006.01); **H01J 27/08** (2006.01); **H01J 37/08** (2006.01)

CPC (source: EP US)
H01J 27/022 (2013.01 - EP US); **H01J 27/08** (2013.01 - EP US)

Citation (search report)
• [A] US 4301391 A 19811117 - SELIGER ROBERT L, et al
• [A] GB 1129888 A 19681009 - ASS ELECT IND
• [AD] REVIEW OF SCIENTIFIC INSTRUMENTS, vol. 57, no. 6, juin 1986, pages 1069-1084, American Institute of Physics, New York, US; I.G. BROWN et al.: "Metal vapor vacuum arc ion source"

Designated contracting state (EPC)
CH DE FR GB LI NL

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EP 0295743 A1 19881221; **EP 0295743 B1 19920506**; DE 3870720 D1 19920611; FR 2616587 A1 19881216; FR 2616587 B1 19891124; JP S643941 A 19890109; US 4939425 A 19900703

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