

Title (en)

Method for rejuvenating ion sources.

Title (de)

Verfahren zur Regeneration von Ionenquellen.

Title (fr)

Procédé pour régénérer les sources d'ions.

Publication

**EP 0000586 A1 19790207 (EN)**

Application

**EP 78100528 A 19780727**

Priority

US 81938877 A 19770727

Abstract (en)

[origin: US4135094A] {PG,1 Ion sources which become coated with insulative materials are rejuvenated by forming the repeller electrode in the ion source of gold and bombarding such repeller electrode with ions to sputter the gold onto the coated surfaces to render them conductive again. Gold sputtering is accomplished by bombarding the gold repeller electrode with inert argon ions.

IPC 1-7

**H01J 39/35**

IPC 8 full level

**G01N 27/62** (2006.01); **H01J 3/04** (2006.01); **H01J 27/02** (2006.01); **H01J 27/20** (2006.01); **H01J 49/10** (2006.01); **H01J 49/14** (2006.01)

CPC (source: EP US)

**H01J 49/10** (2013.01 - EP US); **H01J 49/14** (2013.01 - EP US)

Citation (search report)

- [A] NUCLEAR INSTRUMENTS AND METHODS, Vol. 9, 1960, Amsterdam (NL), W.L. RAUTENBACH: "A high temperature sputtering ion source for a laboratory isotope separator", pages 199-211
- [A] NUCLEAR INSTRUMENTS AND METHODS, vol. 107, nr. 3, 1973, Amsterdam (NL), J.H. FREEMAN & G. SIDENIUS: "The technology and chemistry of heavy ion sources", page 477-492

Cited by

EP0528831A4

Designated contracting state (EPC)

CH DE FR GB SE

DOCDB simple family (publication)

**EP 0000586 A1 19790207**; **EP 0000586 B1 19811202**; CA 1107234 A 19810818; DE 2861400 D1 19820128; IT 1097553 B 19850831; IT 7826143 A0 19780726; JP S5434890 A 19790314; JP S588550 B2 19830216; US 4135094 A 19790116

DOCDB simple family (application)

**EP 78100528 A 19780727**; CA 308036 A 19780725; DE 2861400 T 19780727; IT 2614378 A 19780726; JP 9102578 A 19780727; US 81938877 A 19770727