

Title (en)
Isotopic reference material

Title (de)
Isotopenreferenzmaterial

Title (fr)
Matériau de référence isotopique

Publication
EP 1059657 A3 20040107 (EN)

Application
EP 00304683 A 20000601

Priority
GB 9913198 A 19990607

Abstract (en)
[origin: EP1059657A2] This application relates to a reference material for the calibration of a mass spectrometer for isotopic analysis, the reference material including a filament comprising one or more metals (X) selected from W, Re, Rh, Ir, Pd and Pt and alloys thereof having melting points greater than approximately 1800 DEG C and vapour pressures lower than approximately 10<-6> Torr at 2000 DEG C, the filament having a coating on at least a portion thereof of an intermetallic compound comprising one or more metals (Y) selected from W, Re, Rh, Ir, Pd and Pt and alloys thereof having melting points greater than approximately 1800 DEG C and vapour pressures lower than 10<-6> Torr at approximately 2000 DEG C and one or more metals (Z) selected from the lanthanides and the actinides.

IPC 1-7
H01J 49/04; H01J 49/02

IPC 8 full level
H01J 49/02 (2006.01)

CPC (source: EP)
H01J 49/0009 (2013.01); **H01J 49/049** (2013.01)

Citation (search report)

- [A] EFURD D W ET AL: "Identification and quantification of the source terms for uranium in surface waters collected at the Rocky Flats facility", INTERNATIONAL JOURNAL OF MASS SPECTROMETRY AND ION PROCESSES, ELSEVIER SCIENTIFIC PUBLISHING CO. AMSTERDAM, NL, vol. 146-14, 31 August 1995 (1995-08-31), pages 109 - 117, XP004036660, ISSN: 0168-1176
- [A] INKRET W C ET AL: "Applications of thermal ionization mass spectrometry to the detection of Pu and Pu intakes", INTERNATIONAL JOURNAL OF MASS SPECTROMETRY, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 178, no. 1-2, 19 October 1998 (1998-10-19), pages 113 - 120, XP004140864, ISSN: 1387-3806
- [A] RICHTER S ET AL: "Isotopic "fingerprints" for natural uranium ore samples", INTERNATIONAL JOURNAL OF MASS SPECTROMETRY, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 193, no. 1, 28 October 1999 (1999-10-28), pages 9 - 14, XP004365752, ISSN: 1387-3806

Cited by
US2016305867A1; CN102062755A; CN106053354A; US10416074B2; RU2730426C2; AU2016201531B2; TWI716391B

Designated contracting state (EPC)
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