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(54) **Isotopic reference material**

(57) 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°C and vapour pressures lower than approximately 10^{-6} Torr at 2000°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°C and vapour pressures lower than 10^{-6} Torr at approximately 2000°C and one or more metals (Z) selected from the lanthanides and the actinides.

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EUROPEAN SEARCH REPORT

Application Number
EP 00 30 4683

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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 * abstract * * page 111, right-hand column, line 14-33 * ---	1-19	H01J49/04 H01J49/02
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 * abstract * * page 114, right-hand column, line 25-29 * --- -/--	1-19	TECHNICAL FIELDS SEARCHED (Int.Cl.7) H01J

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
MUNICH	17 November 2003	Winkelman, A

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
O : non-written disclosure
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T : theory or principle underlying the invention
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D : document cited in the application
L : document cited for other reasons

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DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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 * abstract * * paragraph [EXPERIMENTAL] * -----	1-19	

TECHNICAL FIELDS SEARCHED (Int.Cl.7)

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