

Title (en)

Mass spectrometers and methods of mass spectrometry

Title (de)

Massenpektrometrisches Verfahren und massenpektrometrische Vorrichtung

Title (fr)

Méthode et dispositif de spectrométrie de masse

Publication

EP 1220291 A3 20040825 (EN)

Application

EP 01310017 A 20011129

Priority

- GB 0029088 A 20001129
- GB 0109760 A 20010420
- GB 0110149 A 20010425
- GB 0115504 A 20010625
- GB 0120029 A 20010816

Abstract (en)

[origin: DE20122469U1] The spectrometer includes an intermediate vacuum chamber (19) which is arranged between input and analyzer vacuum chambers (18,20). An ion guide (15) extending between input and the intermediate vacuum chambers includes multiple electrodes having an internal aperture (8). An independent claim is included for method of mass spectrometry.

IPC 1-7

H01J 49/42

IPC 8 full level

H01J 49/04 (2006.01); **H01J 49/40** (2006.01); **H01J 49/42** (2006.01)

CPC (source: EP)

H01J 49/065 (2013.01)

Citation (search report)

- [XA] SHAFFER S A ET AL: "AN ION FUNNEL INTERFACE FOR IMPROVED ION FOCUSING AND SENSITIVITY USING ELECTROSPRAY IONIZATION MASS SPECTROMETRY", ANALYTICAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. COLUMBUS, US, vol. 70, no. 19, 1 October 1998 (1998-10-01), pages 4111 - 4119, XP000790313, ISSN: 0003-2700
- [X] SHENHENG G ET AL: "Stacked-Ring Electrostatic Ion Guide", JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY, ELSEVIER SCIENCE INC, US, vol. 7, no. 1, 1996, pages 101 - 106, XP004051947, ISSN: 1044-0305
- [A] BELOV M E ET AL: "Initial implementation of an electrodynamic ion funnel with Fourier transform ion cyclotron resonance mass spectrometry", JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY, ELSEVIER SCIENCE INC., NEW YORK, NY, US, vol. 11, no. 1, January 2000 (2000-01-01), pages 19 - 23, XP004264774, ISSN: 1044-0305

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GB2422051A; GB2422051B; US7391021B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

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EP 1220291 A2 20020703; **EP 1220291 A3 20040825**; **EP 1220291 B1 20070228**; AT E355608 T1 20060315; DE 20122469 U1 20051124; DE 60126901 D1 20070412; DE 60126901 T2 20070614

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