Title (en)

FLIGHT TIME MASS SPECTROMETER

Title (de)

FLUGZEIT-MASSENSPEKTROMETER

Title (fr)

SPECTROMETRE DE MASSE A TEMPS DE VOL

Publication

EP 1817788 A2 20070815 (DE)

Application

EP 05792139 A 20050912

Priority

- EP 2005054525 W 20050912
- DE 102004045315 A 20040917

Abstract (en)

[origin: WO2006029999A2] A device for producing an ion beam (120) from positively charged ions in an evacuated flight time mass spectrometer (10) containing an ion source (12), an interface (14) for transferring the ion beam of atmospheric pressure into the mass spectrometer (10), and an ion extraction device (64) with a voltage source (74) for the production of a negative potential difference between the ion extraction device (64) and the ion source (12), characterized in that the negative potential difference amounts to at least one - 1 kV and the ion extraction device (64) is connected to the voltage source (74) via a high ohm resistor (72), the value of which is selected in such a way that no spontaneous discharge occurs between the ion source (12) and ion extraction device (64) when voltage is applied.

IPC 8 full level

H01J 49/40 (2006.01); **H01J 49/04** (2006.01); **H01J 49/06** (2006.01); **H01J 49/10** (2006.01)

CPC (source: EP)

H01J 49/04 (2013.01); **H01J 49/061** (2013.01); **H01J 49/062** (2013.01); **H01J 49/10** (2013.01); **H01J 49/40** (2013.01)

Citation (search report)

See references of WO 2006029999A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

WO 2006029999 A2 20060323; **WO 2006029999 A3 20070802**; AT E517428 T1 20110815; AU 2005284150 A1 20060323; AU 2005284150 A8 20100603; AU 2005284150 B2 20110512; DE 102004045315 A1 20060330; EP 1817788 A2 20070815; EP 1817788 B1 20110720

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