

Title (en)

TANDEM MASS SPECTROMETER AND TANDEM MASS SPECTROMETRY METHOD

Title (de)

TANDEM-MASSENSPEKTROMETER UND TANDEM-MASSENSPEKTROMETRIEVERFAHREN

Title (fr)

SPECTROMETRE DE MASSE TANDEM ET PROCEDE DE SPECTROMETRIE DE MASSE TANDEM

Publication

**EP 2740145 A1 20140611 (FR)**

Application

**EP 12748751 A 20120802**

Priority

- EP 11306019 A 20110805
- FR 2012051834 W 20120802
- EP 12748751 A 20120802

Abstract (en)

[origin: EP2555225A1] The spectrometer has a mass analyzer comprising an ions trap (2) to receive ions from an ionization source (1) and a detecting unit to detect ions leaving the trap based on relative load mass of ions. An ions activation unit activates a part of the trapped ions. A luminescent gas-discharge lamp (4) of the activation unit generates a light beam directed toward the trap to fragment energies of photons ranging between 8-41 eV or for photoionization or photodetachment of the electrons guided to the trapped ions, where the beam is electromagnetic radiation in a field of vacuum UV. The luminescent gas-discharge lamp is designed as a helium discharge lamp, a neon discharge lamp, an argon discharge lamp or a krypton discharge lamp. An independent claim is also included for a tandem mass spectrometry method.

IPC 8 full level

**H01J 49/42** (2006.01)

CPC (source: EP US)

**H01J 49/0031** (2013.01 - US); **H01J 49/0059** (2013.01 - EP US); **H01J 49/0081** (2013.01 - US); **H01J 49/4205** (2013.01 - EP US)

Citation (search report)

See references of WO 2013021124A1

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