

Title (en)

Mass spectrometry method with ion fragmentation by reaction with electrons

Title (de)

Massenspektrometrisches Verfahren mit Ionenfragmentierung durch Reaktion mit Elektronen

Title (fr)

Méthode de spectrométrie de masse avec fragmentation ionique par réaction avec des électrons

Publication

EP 1598850 B1 20190306 (EN)

Application

EP 05010587 A 20050517

Priority

DE 102004025262 A 20040519

Abstract (en)

[origin: EP1598850A2] The invention relates to a mass spectrometer, in particular a time-of-flight mass spectrometer, with fragmentation of pre-selected molecule ions for the acquisition of daughter ion spectra. The invention consists in an instrument with devices for generating multiply charged ions of the molecule of interest, for selecting a multiply charged ion species by a mass filter, for fragmenting the selected ions by allowing them to react with low energy electrons in an RF ion guide system, and for analyzing the fragment ions in a mass analyzer.

IPC 8 full level

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CPC (source: EP)

H01J 49/0054 (2013.01); **H01J 49/421** (2013.01)

Citation (examination)

- WO 2005083743 A2 20050909 - SHIMADZU RES LAB EUROPE LTD [GB], et al
- DE 10325579 A1 20050105 - BRUKER DALTONIK GMBH [DE]

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EP 1598850 A2 20051123; **EP 1598850 A3 20061206**; **EP 1598850 B1 20190306**; DE 102004025262 A1 20051222

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