Title (en)

METHOD FOR DETERMINING THE MAXIMUM MASS PEAK IN MASS SPECTROMETRY

Title (de)

VERFAHREN ZUR BESTIMMUNG DES MAXIMUMS DES MASSENPEAKS IN DER MASSENSPEKTROMETRIE

Title (fr)

PROCÉDÉ DE DÉTERMINATION DU MAXIMUM DU PIC DE MASSE DANS LA SPECTROMÉTRIE DE MASSE

Publication

EP 2820667 B1 20200422 (DE)

Application

EP 13708748 A 20130228

Priority

- DE 102012203137 A 20120229
- EP 2013054055 W 20130228

Abstract (en)

[origin: WO2013127933A2] A fast method for determining molecular mass using mass spectrometry has the following steps: specifying a first adjusting value (M1) of the mass spectrometer, recording the associated signal amplitude (A1), specifying a second adjusting value (M2) which is different to the first, measuring the associated second signal amplitude (A2), specifying a third adjusting value (M3) which is different to the first (M1) and the second (M2) adjusting value, measuring the associated third signal amplitude (A3), determining a quadratic function containing the measured amplitude values as y-values and the specified adjusting values as x-values, determining the maximum of the quadratic function, wherein the searched adjusting value is determined from the x-value of the maximum.

IPC 8 full level

H01J 49/00 (2006.01); **H01J 49/28** (2006.01)

CPC (source: EP RU US)

H01J 49/0009 (2013.01 - EP US); **H01J 49/0031** (2013.01 - EP US); **H01J 49/0036** (2013.01 - EP US); **H01J 49/26** (2013.01 - US); **H01J 49/28** (2013.01 - EP US); H01J 49/04 (2013.01 - RU)

Citation (examination)

DOMINIC M. DESIDERIO ET AL: "High resolution mass spectral photoplate data acquired and reduced with a real time remote time-shared digital computer", ANALYTICAL CHEMISTRY, vol. 40, no. 14, 1 December 1968 (1968-12-01), US, pages 2090 - 2096, XP055388103, ISSN: 0003-2700, DOI: 10.1021/ac50158a027

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

DE 102012203137 A1 20130829; CN 104137222 A 20141105; CN 104137222 B 20160824; EP 2820667 A2 20150107; EP 2820667 B1 20200422; IN 7155DEN2014 A 20150424; JP 2015508898 A 20150323; JP 6263132 B2 20180131; RU 2014138548 A 20160420; RU 2633513 C2 20171013; TW 201341793 A 20131016; TW I589871 B 20170701; US 2015014523 A1 20150115; US 9147561 B2 20150929; WO 2013127933 A2 20130906; WO 2013127933 A3 20131219

DOCDB simple family (application)

DE 102012203137 A 20120229; CN 201380011043 A 20130228; EP 13708748 A 20130228; EP 2013054055 W 20130228; IN 7155DEN2014 A 20140826; JP 2014559220 A 20130228; RU 2014138548 A 20130228; TW 102107242 A 20130301; US 201314381170 A 20130228