

Title (en)

Mass spectrometer and method of mass spectrometry

Title (de)

Massenspektrometer und Massenspektrometrieverfahren

Title (fr)

Spectromètre de masse et méthode associée

Publication

**EP 1365437 B1 20140820 (EN)**

Application

**EP 02257042 A 20021010**

Priority

- GB 0211375 A 20020517
- GB 0212021 A 20020524
- GB 0212385 A 20020529
- GB 0223231 A 20021007

Abstract (en)

[origin: EP1365437A2] A mass spectrometer is disclosed wherein a z-lens 4 upstream of an orthogonal acceleration Time of Flight mass analyser 9 is repeatedly switched between a first mode wherein ions are transmitted to the mass analyser 9 for subsequent mass analysis with a relatively high transmission and a second mode wherein ions are transmitted with a relatively low transmission. If it is determined that mass spectral data obtained when the mass analyser 9 is in the first mode is suffering from saturation, then suitably scaled mass spectral data obtained when the mass analyser 9 is in the second mode is used instead. If the saturation is severe then the mass spectral data obtained in the first mode may be replaced in its entirety with mass spectral data obtained in the second mode.

IPC 8 full level

**H01J 49/40** (2006.01); **H01J 49/00** (2006.01)

CPC (source: EP)

**H01J 49/0027** (2013.01)

Citation (examination)

JP 2000082439 A 20000321 - JEOL LTD

Cited by

CN103460331A; CN111052301A; GB2598871A; GB2598871B; EP3382739A1; CN108666200A; EP3382738A1; CN108666199A; US10515789B2; US11488815B2; WO2023209552A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

**EP 1365437 A2 20031126; EP 1365437 A3 20060104; EP 1365437 B1 20140820**

DOCDB simple family (application)

**EP 02257042 A 20021010**