

Title (en)

METHODS FOR DETECTING METABOLIC STATES BY LASER ABLATION ELECTROSPRAY IONIZATION MASS SPECTROMETRY

Title (de)

VERFAHREN ZUR ERKENNUNG VON METABOLISCHEN ZUSTÄNDEN MITTELS LAESI-MASSENSPEKTROMETRIE

Title (fr)

PROCÉDÉ DE DÉTECTION D'ÉTATS MÉTABOLIQUES PAR SPECTROMÉTRIE DE MASSE PAR IONISATION AVEC ÉLECTRO-VAPORISATION POUR ABLATION LASER

Publication

**EP 2567396 A1 20130313 (EN)**

Application

**EP 10851131 A 20100505**

Priority

US 2010033757 W 20100505

Abstract (en)

[origin: WO2011139274A1] According to certain embodiments, a method of mass spectrometry may generally comprise subjecting a sample comprising at least one indicator to laser ablation electrospray ionization mass spectrometry; determining a relative intensity of the indicator; and comparing the relative intensity of the indicator to a standard indicator intensity. Subjecting a sample to laser ablation electrospray ionization mass spectrometry may comprise ablating the sample with an infrared laser under ambient conditions to form an ablation plume; intercepting the ablation plume by an electrospray plume; and detecting the indicator by mass spectrometry. The method of mass spectrometry may comprise classifying the sample as belonging to or not belonging to the standard indicator intensity. A sample not belonging to the standard indicator intensity may indicate that the sample is predicted to comprise a disease state.

IPC 8 full level

**H01J 49/26** (2006.01)

CPC (source: EP)

**H01J 49/0463** (2013.01); **H01J 49/165** (2013.01)

Citation (search report)

See references of WO 2011139274A1

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 SE SI SK SM TR

DOCDB simple family (publication)

**WO 2011139274 A1 20111110**; CA 2798182 A1 20111110; EP 2567396 A1 20130313; JP 2013525810 A 20130620

DOCDB simple family (application)

**US 2010033757 W 20100505**; CA 2798182 A 20100505; EP 10851131 A 20100505; JP 2013509038 A 20100505