

Title (en)  
A METHOD FOR ELEMENT-SELECTIVE DETECTION, A MICRO PLASMA MASS SPECTROMETER FOR USE IN THE METHOD AND A MICRO PLASMA ION SOURCE, TOGETHER WITH APPLICATIONS THEREOF

Title (de)  
ELEMENT-SELEKTIVES DETEKTIONSVERFAHREN, MIKRO-PLASMA MASSENSPEKTROMETER UND MIKRO-PLASMA IONENQUELLE DAFÜR SOWIE IHRE ANWENDUNGEN

Title (fr)  
PROCEDE DE DETECTION SELECTIVE D'ELEMENTS, SPECTROMETRE DE MASSE A MICRO-PLASMA DESTINE A CE PROCEDE, SOURCE D'IONS PLASMATIKES, ET LEURS APPLICATIONS

Publication  
**EP 0960431 B1 20020410 (EN)**

Application  
**EP 98904444 A 19980212**

Priority  
• NO 9800048 W 19980212  
• NO 970707 A 19970214

Abstract (en)  
[origin: WO9836440A1] In a method for element-selective detection of chromatographically or electrophoretically separated compounds there is employed a micro plasma mass spectrometer with a plasma ion source provided in the mass spectrometer's high vacuum chamber. The plasma ion source is equipped with a capillary channel surrounded by a radio-frequency electrode connected to a radio-frequency generator and around or adjacent to the capillary channel there are provided one or more earth electrodes. When plasma gas is introduced into the channel, the plasma is created by discharges between the radio-frequency electrode and one or more of the earth electrodes. The method, the plasma mass spectrometer and the plasma ion source can be installed in existing, commercial mass spectrometers.

IPC 1-7  
**H01J 49/10; H01J 49/36**

IPC 8 full level  
**G01N 27/62** (2006.01); **H01J 49/10** (2006.01)

CPC (source: EP)  
**H01J 49/105** (2013.01)

Cited by  
WO2007042746A3

Designated contracting state (EPC)  
DE FR GB IT NL

DOCDB simple family (publication)  
**WO 9836440 A1 19980820**; AU 6231498 A 19980908; AU 719247 B2 20000504; CA 2278807 A1 19980820; DE 69804772 D1 20020516; DE 69804772 T2 20021128; EP 0960431 A1 19991201; EP 0960431 B1 20020410; JP 2001512617 A 20010821; NO 304861 B1 19990222; NO 970707 D0 19970214; NO 970707 L 19980817

DOCDB simple family (application)  
**NO 9800048 W 19980212**; AU 6231498 A 19980212; CA 2278807 A 19980212; DE 69804772 T 19980212; EP 98904444 A 19980212; JP 53562498 A 19980212; NO 970707 A 19970214