

Title (en)  
COMPACT MASS SPECTROMETER

Title (de)  
KOMPAKTES MASSENSPEKTROMETER

Title (fr)  
SPECTROMÈTRE DE MASSE COMPACT

Publication  
**EP 2939255 B1 20210310 (EN)**

Application  
**EP 12813735 A 20121231**

Priority  
US 2012072328 W 20121231

Abstract (en)  
[origin: WO2014105089A1] Mass spectrometers and methods for measuring information about samples using mass spectrometry are disclosed. The mass spectrometers include an ion source, an ion trap, an ion detector, and a gas pressure regulation system, where during operation of the mass spectrometers, the gas pressure regulation system is configured to maintain a gas pressure of between 100 mTorr and 100 Torr in at least two of the ion source, the ion trap, and the ion detector, and the ion detector is configured to detect ions generated by the ion source according to a mass-to-charge ratio of the ions.

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CPC (source: CN EP)  
**H01J 49/0013** (2013.01 - CN EP); **H01J 49/24** (2013.01 - CN EP)

Citation (examination)  

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- DARLING R B ET AL: "Micromachined Faraday cup array using deep reactive ion etching", SENSORS AND ACTUATORS A: PHYSICAL, ELSEVIER BV, NL, vol. 95, no. 2-3, 1 January 2002 (2002-01-01), pages 84 - 93, XP004377879, ISSN: 0924-4247, DOI: 10.1016/S0924-4247(01)00718-X
- "Introduction to mass spectrometry : instrumentation, applications, and strategies for data interpretation", 1 January 2007, WILEY, Chichester [u.a], ISBN: 978-0-470-51634-8, article J THROCK WATSON ET AL: "John Wiley & Sons, Ltd INTRODUCTION TO MASS SPECTROMETRY", pages: 53 - 172, XP055389637

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