

Title (en)

Tandem mass spectrometer and method of operating a mass spectrometer system.

Title (de)

Tandem-Massenspektrometer und Verfahren zum Betrieb eines Massenspektrometersystems.

Title (fr)

Spectromètre de masse tandem et procédé de fonctionnement d'un système de spectromètre de masse.

Publication

EP 0024149 A1 19810225 (EN)

Application

EP 80302634 A 19800801

Priority

CA 333326 A 19790803

Abstract (en)

A tandem quadrupole mass spectrometer system in which an AC-only section (6) is close coupled with a standard AC-DC section (8) with the rods of the two sections closely longitudinally adjacent each other. The rods of the AC voltage only section (6) are of open structure, formed by thin wires to allow gas to be introduced into the system and to escape through the open structure rods (14-2). The system is suited for use with a tandem quadrupole system consisting of three sections, namely an AC-DC section (4), an AC-only section (6) and an AC-DC section (8) all close coupled, with a target gas (29) introduced into the AC-only section (6) to perform fragmentation of ions traveling through the system. In one arrangement the rods (14) of the AC-only section (6) have solid centre portions (14-1) between which the target gas is introduced, and open structure end portions (14-2) through which the target gas may flow away so that little of it enter the end AC-DC sections (4,8).

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CPC (source: EP)

H01J 49/005 (2013.01); **H01J 49/063** (2013.01); **H01J 49/421** (2013.01)

Citation (search report)

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