

Title (en)
HIGH TRANSMISSION STIGMATIC MASS SPECTROMETER

Publication
EP 0473488 A3 19920708 (FR)

Application
EP 91402222 A 19910809

Priority
FR 9010632 A 19900824

Abstract (en)
[origin: EP0473488A2] The mass spectrometer according to the invention includes, arranged between an entrance slit (W1y, W1z) and an exit slit (W4y, W4z) through both of which pass particles emitted by a sample, an optical coupling system (1) placed between two sectors, electrostatic (2) and magnetic (3). Its optical coupling system comprises at least two lenses (Ly) and (Lz) with slit, which are oriented respectively in a first direction (Y) along which the trajectory of the ions is bent by the electrostatic (2) and magnetic (3) sectors, and in a direction (Z) perpendicular to the plane of the trajectory. The positions of the two lenses (Ly) and (Lz) on the optical axis of the spectrometer are determined so as to obtain a compensation for the chromatic dispersions throughout the axis downstream of the spectrometer, a stigmatic image of the entrance slit in the exit plane of the spectrometer and a stigmatic image downstream of the spectrometer of the entrance slit, of a plane which is not conjugate with the entrance slit, in a plane different to the exit plane. <??>Application: high transmission stigmatic mass spectrometer. <IMAGE>

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H01J 49/06

IPC 8 full level
H01J 49/06 (2006.01); **H01J 49/32** (2006.01)

CPC (source: EP US)
H01J 49/06 (2013.01 - EP US); **H01J 49/32** (2013.01 - EP US)

Citation (search report)
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• [AD] REVUE TECHNIQUE THOMSON-CSF vol. 12, no. 1, Mars 1980, pages 225 - 265; LEPAREUR M: 'LE MICRO-ANALYSEUR IONIQUE DE SECONDE GENERATION CAMECA MODELE 3 F'
• [A] PATENT ABSTRACTS OF JAPAN vol. 9, no. 298 (E-361)(2021) 26 Novembre 1985 & JP-60 138 833 (NIPPON DENSHI K K) 23 Juillet 1985

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