

Title (en)  
ION SOURCE HAVING A GAS IONIZATION CHAMBER WITH OSCILLATIONS OF ELECTRONS

Publication  
**EP 0077738 B1 19860226 (FR)**

Application  
**EP 82401920 A 19821019**

Priority  
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Abstract (en)  
[origin: US4468564A] The invention relates to an ion source. This source comprises a gas ionization chamber, an electron source and means for oscillating the electrons in the chamber, so as to produce an ionization zone of the gas. The means for oscillating the electrons comprise two identical electron lenses, whose axes coincide with the oscillation direction, two spherical concave mirrors turned towards one another and positioned respectively on either side of the two lenses and whose centers respectively coincide with the foci of the lenses, the electron source being positioned at the focus of one of the two lenses. Application to the analysis of gases by mass spectrometry.

IPC 1-7  
**H01J 27/02**

IPC 8 full level  
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**EP 82401920 A 19821019**; DE 3269440 T 19821019; FR 8119761 A 19811021; JP 18378382 A 19821021; US 43483482 A 19821018