

Title (en)

Electron cyclotron resonance ion source for highly charged ions with polarisable probe

Title (de)

Quelle starkgeladener Ionen mit polarisierbarer Probe und mit Elektronzyklotronresonanz

Title (fr)

Source d'ions fortement chargés à sonde polarisable et à résonance cyclotronique électronique

Publication

EP 0483004 B1 19990224 (FR)

Application

EP 91402829 A 19911023

Priority

FR 9013232 A 19901025

Abstract (en)

[origin: EP0483004A1] The invention relates to an ion source with polarisable probe (20) making it possible to produce, from neutral atoms, a quantity of highly charged ions. This source comprises a microwave cavity (2), means (14) of producing an axial magnetic field in the cavity, means (16) of producing a multipole radial magnetic field in this cavity, a high-frequency input (4), a gas inlet (6) into the cavity, means (10) of extracting ions, and a voltage-polarisable probe (20) for improving the ionisation of the gas. <IMAGE>

IPC 1-7

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IPC 8 full level

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