

Title (en)

ION TRAP WITH LONGITUDINAL PERMANENT MAGNET AND MASS SPECTROMETER USING SAME

Title (de)

IONENFALLE MIT LANGSLAUFENDEM PERMANENTMAGNET UND MASSENSPEKTROMETER MIT EINEM SOLCHEN MAGNET

Title (fr)

PIEGE A IONS A AIMANT PERMANENT LONGITUDINAL ET SPECTROMETRE DE MASSE UTILISANT UN TEL AIMANT

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Application

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Abstract (en)

[origin: WO2006024775A1] The invention concerns a vacuum magnetic ion trap comprising an assembly forming a permanent magnet including at least two magnetized structures (30, 32) in the form of hollow cylinders, one convergent radial structure, magnetized along a convergent radial direction, and one divergent radial structure, magnetized along a divergent radial direction, said convergent and divergent radial magnetized structures (30, 32) being arranged along a common longitudinal axis (XX'). Said trap also comprises a sealed chamber (4) containing an ion confinement cell (8) fixed between said at least two magnetized structures (30, 32) and including at least two trapping electrodes (10) connectable to a voltage generator (12).

IPC 8 full level

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