

Title (en)

Magnetic field generation means and ECR ion source using the same

Title (de)

Magnetfelderzeugungsvorrichtung und ECR Ionenquelle dafür

Title (fr)

Dispositif pour engendrer un champ magnétique et source ecr comportant ce dispositif

Publication

EP 0813223 B1 20020410 (FR)

Application

EP 97401294 A 19970609

Priority

FR 9607228 A 19960611

Abstract (en)

[origin: EP0813223A1] The plasma confinement field has N axially symmetric assemblies (A1 AN). When N=2, the outer assembly defines a mean axial field and the inner one establishes at least locally a gradient of this axial field. The inner one is divided into two sub-assemblies to establish gradients at each end of the outer assembly. The ratio of the length of the device measured parallel to the common axis of symmetry (MM') to the length of the multipolar assembly (32) is less than 1.5. In a cyclotron, the multipolar structure defines a plasma confinement volume with the target (42) at one end (S1, S2) of the volume, lying opposite a primary beam injector (44).

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