

Title (en)
High-flux neutron tube.

Title (de)
Hochfluss-Neutronenröhre.

Title (fr)
Tube neutronique à flux élevé.

Publication
EP 0473233 B1 19950517 (FR)

Application
EP 91202149 A 19910822

Priority
FR 9010873 A 19900831

Abstract (en)
[origin: EP0473233A1] The invention relates to a neutron tube containing an ion source possessing at least one anode (6), at least one cathode (7), possessing at least one extraction orifice (12), and also containing an acceleration device (2) arranged such as to project at least one ion beam from the ion source onto a target in order to produce there a reaction bringing about an emission of neutrons. The ion source is arranged according to at least one portion of a first surface of revolution (8', 41, 51) and configured to produce a radial emission of ions directed outwards from the said first surface (8', 41, 51), in that the acceleration device (2) is arranged according to at least one portion of a second surface of revolution surrounding the said first surface (8', 41, 51), and in that the target (4) is arranged according to at least one portion of a third surface of revolution surrounding the said second surface. <IMAGE>

IPC 1-7
H05H 3/06; **H01J 27/04**

IPC 8 full level
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H01J 27/04 (2013.01 - EP US); **H05H 3/06** (2013.01 - EP US)

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