

Title (en)

Liquid metal ion source for producing cobalt ion beams

Title (de)

Flüssigmetall-Ionenquelle zur Erzeugung von Kobalt-Ionenstrahlen

Title (fr)

Source de ions à métal liquide pour la production des rayons de ions de cobalt

Publication

EP 0620582 B1 19960828 (DE)

Application

EP 94105227 A 19940402

Priority

DE 4312028 A 19930413

Abstract (en)

[origin: EP0620582A1] The invention relates to a liquid metal ion source for producing cobalt ion beams, in particular the source material, which wets the emitter, of an ion source of this kind. The invention comprises liquid metal ion sources, whose emitter is wetted with a defined alloy of cobalt and one or more elements from the group of rare earths as source material. With liquid metal ion sources, equipped in this manner, it is possible to achieve over a long period of time a stable ion stream which consists to a sufficient extent of cobalt ions. In cooperation with the low melting point, the components of the alloy have the result that no chemical reactions with the emitter and heater material occur.

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