

Title (en)
Cathode and method of manufacture.

Title (de)
Kathode und Verfahren zu ihrer Herstellung.

Title (fr)
Cathode et son procédé de fabrication.

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Application
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Priority
DE 4142535 A 19911221

Abstract (en)
[origin: EP0549034A1] The invention relates to a cathode having a matrix body (1) which is impregnated with an alkaline earth metal compound and to whose surface a cover layer (2, 3, 4) is applied which contains scandium and a refractory metal such as, in particular, tungsten. High emission at low operating temperature and, at the same time, rapid recovery after ion bombardment and a long service life are achieved by the cover layer containing at least two layers having different compositions, a purely metallic layer (5, 6, 7) being applied to the impregnated matrix body (1) which contains scandium and a refractory metal such as, in particular, tungsten and/or rhenium, and by there being applied as a final layer a metallic layer made of a refractory metal such as, in particular, tungsten. <IMAGE>

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