

Title (en)
A FIELD EMISSION CATHODE AND METHODS IN THE PRODUCTION THEREOF

Title (de)
FELDEMISSIONSKATHODE UND HERSTELLUNGSVERFAHREN DERSELBEN

Title (fr)
CATHODE A EMISSION DE CHAMP ET PROCEDES POUR LA REALISER

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Abstract (en)
[origin: WO9625753A1] An improved field emission cathode and methods for fabricating such a cathode are disclosed. In the methods of the invention, the field emission cathode is made from at least one body containing a first substance. The method steps include a preparation of irregularities in an emitting surface of the body, adding to the emitting surface of the body ions of a second substance with a low work function, and modifying the emitting surface by inducing field emission in applying a variable electric field to the body and increasing the field strength in steps.

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