

Title (en)

FIELD EMISSION DEVICE USING A REDUCING GAS AND METHOD FOR MAKING SAME

Title (de)

FELDEMISSIONSVORRICHTUNG MIT EINEM REDUKTIONSGAS UND VERFAHREN ZUR HERSTELLUNG

Title (fr)

DISPOSITIF A EMISSION DE CHAMP UTILISANT UN GAZ REDUCTEUR ET FABRICATION D'UN TEL DISPOSITIF

Publication

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Application

**EP 00922750 A 20000426**

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Abstract (en)

[origin: FR2793068A1] The invention concerns a device comprising at least an electron source with field effect in a closed structure defining an internal space which contains a reducing gas for oxidising the material emitting the electron source. The invention is characterised in that the reducing gas comprises a gas of formula  $N_xH_y$  with  $x = 1$  or  $2$  and  $y = 3$  or  $4$ , advantageously under pressure ranging between  $10^{-8}$  mbar and  $10^{-1}$  mbar. The invention also concerns methods for making such a device and appliances therefor.

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IPC 8 full level

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