

Title (en)
Sleeve for hot cathode structure and method for manufacturing such sleeve

Title (de)
Hülse für eine beheizte Kathode und Verfahren zu ihrer Herstellung

Title (fr)
Manchon pour cathode chauffée et procédé de fabrication

Publication
EP 1302969 B1 20051214 (EN)

Application
EP 01308682 A 20011011

Priority
EP 01308682 A 20011011

Abstract (en)
[origin: EP1302969A1] A black rough surface which is uniform and has superior characteristic is obtained through simple steps such that a black coating is formed on the inner surface of a sleeve for a hot cathode structure. The black coating 7 is formed at the inner surface of a sleeve 3 in order to quickly and efficiently transfer heat from a heater 4 to a cathode substrate 1. The black coating 7 is a composite film of tantalum and tungsten, rhenium, or a mixture of tungsten and rhenium. The composition of the black coating is such that the mass ratio (tantalum : tungsten, rhenium, or the mixture of tungsten and rhenium) between tantalum and tungsten, rhenium, or the mixture of tungsten and rhenium is in a range between (80 : 20) and (10 : 90). <IMAGE>

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H01J 9/04; **H01J 1/20**

IPC 8 full level
H01J 1/20 (2006.01); **H01J 9/04** (2006.01)

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