



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
13.08.2003 Bulletin 2003/33

(51) Int Cl.7: **H01J 1/142**

(43) Date of publication A2:
20.12.2000 Bulletin 2000/51

(21) Application number: **00111884.3**

(22) Date of filing: **09.06.2000**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE**
Designated Extension States:
AL LT LV MK RO SI

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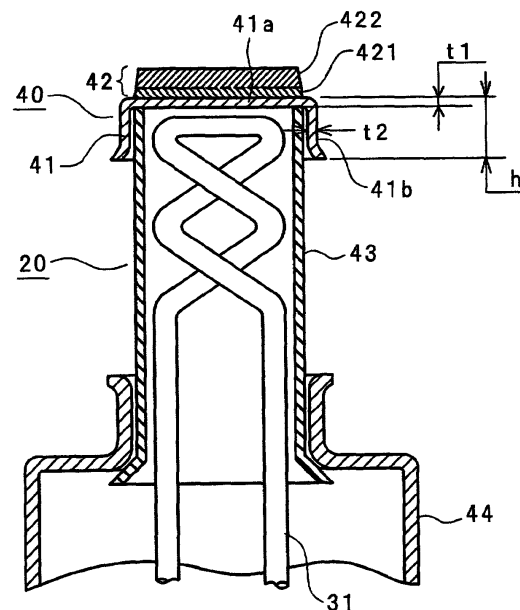
(30) Priority: **14.06.1999 JP 16676499**

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(54) **Cathode ray tube having an improved cathode**

(57) A cathode ray tube is provided with a phosphor screen (14) and an electron gun (19) including a cathode (40) having an electron-emissive material layer (42) formed on a surface of a cathode base metal (41). The electron-emissive material layer includes a first layer (421) made of an alkaline earth metal oxide on the surface of the cathode base metal, a second layer (422) on a surface of the first layer which is an alkaline earth metal oxide layer containing at least one rare earth metal oxide in a range of 0.1 to 10 weight percent, the at least one rare earth metal oxide having a specific particle size distribution. The cathode base metal is made chiefly of nickel and containing at least one reducing agent, and a thickness of a portion of the cathode base metal in contact with the electron-emissive material layer is in a range of 0.10 to 0.16 mm.

FIG. 4





European Patent
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EUROPEAN SEARCH REPORT

Application Number
EP 00 11 1884

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Place of search THE HAGUE		Date of completion of the search 23 June 2003	Examiner Van den Bulcke, E
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EPO FORM 1503 03/82 (P/M/C01)

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