

Title (en)
Linear beam tubes.

Title (de)
Linearstrahlröhren.

Title (fr)
Tubes à faisceau linéaire.

Publication
EP 0178359 A1 19860423 (EN)

Application
EP 84307241 A 19841019

Priority
• EP 84307241 A 19841019
• GB 8320613 A 19830730

Abstract (en)
A linear beam tube may be protected against high voltage arcs between the cathode (2) and anode (3) of its electron gun by connecting to ground a limiting impedance in a series path from said anode. The anode is carried upon the end of a ceramic cylinder (8) which is coaxially within a conical metallic member (9). The end (10) of the ceramic cylinder remote from the anode is attached to one end of said conical metallic member, the other end of which is flanged, with the flange passing through the tube envelope to provide an external termination (11) which may be connected to ground. Resistive material is deposited in a groove (12) in the inner surface of said ceramic cylinder to form a deposited impedance which extends from the anode over the end of the ceramic cylinder, to the end of the conical metallic member and constitutes said limiting impedance.

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H01J 23/06

IPC 8 full level
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CPC (source: EP)
H01J 23/06 (2013.01)

Citation (search report)
• [A] DE 1541078 A1 19700108 - TELEFUNKEN PATENT
• [A] DE 1273703 B 19680725 - TELEFUNKEN PATENT
• [A] US 3683235 A 19720808 - PHILLIPS GRAHAM, et al
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• [A] GB 872170 A 19610705 - FERRANTI LTD
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• [A] US 4366415 A 19821228 - TAKENAKA SHIGEO, et al
• [A] GB 655706 A 19510801 - PHILIPS NV
• [A] IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol. CE-26, no. 3, August 1980, pages 446-451, New York, US; Y. KOBORI et al.: "A novel arc-suppression technique for cathode ray tubes"
• [A] PATENTS ABSTRACTS OF JAPAN, vol. 6, no. 222 (E-140)[1100], 6th November 1982; & JP - A - 57 124 835 (NIPPON DENKI K.K.) 03-08-1982

Designated contracting state (EPC)
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