

Title (en)

BEAM MODE FLUORESCENT LAMP HAVING DUAL CATHODES WITH UNIPOTENTIAL ENDS

Publication

**EP 0087962 A3 19840509 (EN)**

Application

**EP 83301034 A 19830225**

Priority

US 35267682 A 19820226

Abstract (en)

[origin: EP0087962A2] A beam mode lamp has two thermionic electrodes (33, 34) which when energized by AC power function alternately as cathode and anode. Electrodes emitted from a cathode are shaped by the anode into electron beams (e) which excite a gaseous mixture into radiating ultraviolet light and secondary electrons. A phosphor coating (37) on the envelope (31) of the lamp connects the ultraviolet radiation into visible light. During start the electrodes (33, 34) are connected in series. During operation the electrodes (33, 34) are disconnected from each other. The ends of each electrode are then connected making the two ends of an electrode at substantially the same electrical potential. This arrangement results in improved luminous output efficacy and longer operating life of the lamp.

IPC 1-7

**H01J 61/72**; **H05B 41/18**

IPC 8 full level

**H01J 61/56** (2006.01); **H01J 61/54** (2006.01); **H01J 61/72** (2006.01); **H01J 63/00** (2006.01); **H01J 63/08** (2006.01); **H05B 41/04** (2006.01); **H05B 41/18** (2006.01)

CPC (source: EP)

**H01J 61/72** (2013.01); **H01J 63/00** (2013.01); **H05B 41/04** (2013.01)

Citation (search report)

- [X] DE 2151854 A1 19730426 - ORIGINAL HANAU QUARZLAMPEN
- [A] US 3378724 A 19680416 - ISAO KANEDA, et al

Cited by

RU2505744C2; EP0187494A1; US4751435A

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

**EP 0087962 A2 19830907**; **EP 0087962 A3 19840509**; JP H0454343 B2 19920831; JP S58157048 A 19830919

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