

Title (en)

Cathodoluminescent light sources and electric lighting arrangements including such sources.

Title (de)

Kathodolumineszente Lichtquellen und aus solchen Lichtquellen bestehende Beleuchtungseinrichtungen.

Title (fr)

Source lumineuse à cathodoluminescence et installations d'éclairage comprenant de telles sources lumineuses.

Publication

EP 0054356 A1 19820623 (EN)

Application

EP 81305389 A 19811113

Priority

GB 8040346 A 19801217

Abstract (en)

A cathodoluminescent lamp includes an anode constituted by an electrically conducting coating on the interior surface of the bulb wall, a phosphor coating over the whole of the bulb wall interior, a dome-shaped grid located near the junction of the bulb with the envelope neck and supported on a hollow metal cylinder, and an electron emissive cathode mounted within the grid/cylinder assembly. The cathode may be effectively circular and located near the grid, or may be a linear filament located near the open end of the cylinder remote from the grid. In the latter case a metal disc, connected to the negative lead to the cathode, is located near the open end of the cylinder, to repel electrons emerging therefrom. The leads to the anode, cathode and grid lie within the neck and pinched foot tube closing the neck, and are connected to contacts carried by the lamp cap, the anode lead passing through the exhaust tube in the foot tube.

IPC 1-7

H01J 63/06

IPC 8 full level

H01J 61/35 (2006.01); **H01J 63/06** (2006.01)

CPC (source: EP)

H01J 63/06 (2013.01)

Citation (search report)

- EP 0035828 A2 19810916 - GEN ELECTRIC CO PLC [GB]
- GB 749448 A 19560523 - SEBEL S A
- US 2907909 A 19591006 - FRANK KAZUK WALTER

Cited by

FR2538950A1; EP0102139A3

Designated contracting state (EPC)

BE DE FR IT NL

DOCDB simple family (publication)

EP 0054356 A1 19820623; AU 539996 B2 19841025; AU 7778981 A 19820624; GB 2089561 A 19820623; GB 2089561 B 19840830; JP S57124844 A 19820803; ZA 818144 B 19821027

DOCDB simple family (application)

EP 81305389 A 19811113; AU 7778981 A 19811124; GB 8134718 A 19811118; JP 19758281 A 19811208; ZA 818144 A 19811124