

Title (en)

Single electrode beam mode fluorescent lamp for D.C. use.

Title (de)

Leuchtstofflampe vom Strahltyp mit Einfachkathode für Gleichstrom.

Title (fr)

Lampe fluorescente à type de faisceau à cathode simple pour usage à courant continu.

Publication

**EP 0084268 A2 19830727 (EN)**

Application

**EP 82307012 A 19821231**

Priority

US 33704782 A 19820104

Abstract (en)

The lamp shown herein is a beam mode fluorescent lamp for general lighting applications. The lamp comprises a light transmitting envelope (31), having a phosphor coating (37) on its inner surface, enclosing a single electrode (29) including a thermionic cathode (34) for emitting electrons and an integral anode (35) for accelerating the electrons and forming an electron beam, and a fill material, such as mercury, which emits ultraviolet radiation upon excitation. The electrode configuration provides for use of a single power source and minimal number of power leads. In addition, a separate cathode heater filament is not required.

IPC 1-7

**H01J 61/72**; H01J 63/00

IPC 8 full level

**H01J 63/08** (2006.01); **H01J 61/54** (2006.01); **H01J 61/72** (2006.01); **H01J 63/00** (2006.01); **H05B 41/16** (2006.01)

CPC (source: EP)

**H01J 61/72** (2013.01); **H01J 63/00** (2013.01)

Cited by

DE102005062394A1

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

**EP 0084268 A2 19830727**; **EP 0084268 A3 19840502**; CA 1190587 A 19850716; JP H0454342 B2 19920831; JP S58145056 A 19830829

DOCDB simple family (application)

**EP 82307012 A 19821231**; CA 417410 A 19821210; JP 2783 A 19830104