

Title (en)
Beam mode fluorescent lamp.

Title (de)
Strahlungs-Fluoreszenzlampe.

Title (fr)
Lampe fluorescente à rayons.

Publication
EP 0054959 A1 19820630 (EN)

Application
EP 81110674 A 19811222

Priority
US 21956480 A 19801223

Abstract (en)
A beam mode fluorescent lamp for general lighting applications. A light transmitting envelope (10), having a phosphor coating (12) on its inner surface, encloses a cathode (14) for emitting electrons, an anode (16) for accelerating the electrons and forming an electron beam, and a fill material, such as mercury, which emits ultraviolet radiation upon excitation. The anode (16) is spaced apart from the cathode (14) by a distance which is less than the electron range in the fill material and has a structure which permits the electron beam (22) to pass therethrough. The electron beam causes excitation of the fill material and emission of ultraviolet radiation in a relatively field-free drift region (20) havin a dimension which is greater than the electron range. The phosphor coating (12) absorbs the ultraviolet radiation and emits visible light.

IPC 1-7
H01J 61/16

IPC 8 full level
H01J 63/06 (2006.01); **H01J 63/08** (2006.01)

CPC (source: EP)
H01J 63/06 (2013.01)

Citation (search report)

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Designated contracting state (EPC)
DE FR GB NL

DOCDB simple family (publication)
EP 0054959 A1 19820630; JP S57130364 A 19820812

DOCDB simple family (application)
EP 81110674 A 19811222; JP 20626681 A 19811222