

Title (en)
FLUORESCENT LAMP APPARATUS

Publication
EP 0348979 A3 19901128 (EN)

Application
EP 89111876 A 19890629

Priority
JP 16077488 A 19880630

Abstract (en)
[origin: EP0348979A2] A fluorescent lamp apparatus is disclosed which (15) includes a fluorescent lamp including a discharge tube (16) having a discharge space (17) filled with a gas conducive to light emission and electrodes (20) sealed one at each end of the tube and having a phosphor layer (21) coated on an inner surface (18) of the tube (16) and a high-frequency lighting circuit (30) for supplying a high-frequency electric power with a potential gradient set at over 5 V/cm, in which a light-transmitting electric insulation layer (22) is provided between the phosphor layer (21) and the inner surface (18) of the tube (16). The fluorescent lamp apparatus is of such a type that mercury ions within the discharge space (17) are prevented by the insulating layer from intruding in the wall of the tube (16).

IPC 1-7
H01J 61/35; H01J 61/72

IPC 8 full level
H01J 61/72 (2006.01); **H01J 61/35** (2006.01); **H01J 65/00** (2006.01)

CPC (source: EP KR)
H01J 61/35 (2013.01 - EP KR)

Citation (search report)
• [A] US 3067356 A 19621204 - RAY JOHN G
• [A] EP 0270004 A2 19880608 - TOSHIBA KK [JP]
• [A] EP 0249743 A2 19871223 - GTE LABORATORIES INC [US]

Cited by
CN100403112C; FR2882489A1; FR2905032A1; EP0466138A1; EP0518132A3; US5514934A; EP0794555A3; US5796210A; US6201352B1; US8120236B2; US6316872B1; US6566810B1; WO9957749A3; WO2006090086A3; WO0120642A1; WO2008023124A1; WO0017910A1; US7461963B2; USRE44197E; US6515433B1; US8217220B2; US7474044B2; US6211612B1; US7919915B2

Designated contracting state (EPC)
DE GB

DOCDB simple family (publication)
EP 0348979 A2 19900103; EP 0348979 A3 19901128; JP H0212751 A 19900117; KR 900000964 A 19900131; KR 910010106 B1 19911216

DOCDB simple family (application)
EP 89111876 A 19890629; JP 16077488 A 19880630; KR 890008213 A 19890614