

Title (en)

Ultraviolet ray-shielding agent and tube.

Title (de)

Ultraviolettstrahlenschutz und Rohr.

Title (fr)

Agent et tube de protection contre les rayons ultraviolets.

Publication

EP 0389717 A2 19901003 (EN)

Application

EP 89312420 A 19891129

Priority

JP 7387489 A 19890328

Abstract (en)

Disclosed is an ultraviolet ray-shielding agent for selectively shielding ultraviolet rays while allowing a transmission of visible rays therethrough, comprising a visible ray-transmitting binder and extremely fine zinc oxide particles having an average size of 0.1 μm or less in a mixing ratio of the zinc oxide particles to the binder of 1/10 to 10/1, and an ultraviolet ray-shielding tube for visible ray-irradiation luminescent lamps comprising a transparent substrate tube for sealing a light emission source therein, and a coating formed on a surface of the substrate tube and comprising the above-mentioned ultraviolet ray-shielding agent.

IPC 1-7

C03C 17/25; **H01J 61/35**; **H01J 61/40**

IPC 8 full level

H01J 9/20 (2006.01); **H01J 61/35** (2006.01); **H01J 61/40** (2006.01); **H01K 1/32** (2006.01); **H01K 3/00** (2006.01)

CPC (source: EP)

H01J 61/40 (2013.01)

Cited by

NL9301024A; DE4137819A1; EP0758141A3; EP0662704A1; DE4432770A1; DE4432770C2; US5464462A; US5572091A; CN110349833A; WO9923687A1

Designated contracting state (EPC)

DE GB NL

DOCDB simple family (publication)

EP 0389717 A2 19901003; **EP 0389717 A3 19910424**; **EP 0389717 B1 19960911**; DE 68927166 D1 19961017; DE 68927166 T2 19970220; HK 1000298 A1 19980220; JP H02253554 A 19901012

DOCDB simple family (application)

EP 89312420 A 19891129; DE 68927166 T 19891129; HK 97101855 A 19970926; JP 7387489 A 19890328