

Title (en)

Edge breakdown protection in alternating current electroluminescent thin film display.

Title (de)

Randbruchabschirmung in einer Wechselstromelektrolumineszenz-Dünnschichtvorrichtung.

Title (fr)

Protection contre la rupture de bord dans un dispositif électroluminescent à film mince en courant alternatif.

Publication

EP 0273320 A1 19880706 (EN)

Application

EP 87118861 A 19871218

Priority

US 94469286 A 19861219

Abstract (en)

The present invention is directed to novel AC thin film electroluminescent display devices employing a protective dielectric stripe along the edges of the transparent electrode (or conductor). In particular, the present invention is directed to an AC thin film electroluminescent display device comprising: a multilayer stack including a first dielectric layer; a phosphor layer; and a second dielectric layer; situated on a glass substrate which includes parallel stripes of etched transparent conductors; said multilayer stack further including a protective stripe of dielectric material placed at least along the edges of the transparent conductors. The present invention is also directed to a method for protecting an AC thin film electroluminescent display device against premature breakdown at the edges of the transparent conductors. This protection is achieved by depositing a stripe of dielectric material along the edges of the transparent conductors.

IPC 1-7

H05B 33/22; **H05B 33/28**

IPC 8 full level

G09F 9/30 (2006.01); **H05B 33/22** (2006.01); **H05B 33/28** (2006.01)

CPC (source: EP)

H05B 33/22 (2013.01); **H05B 33/28** (2013.01)

Citation (search report)

[A] EP 0111566 A1 19840627 - MATSUSHITA ELECTRIC IND CO LTD [JP]

Cited by

US5400047A; GB2437015B; DE10234178B4; US7911137B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0273320 A1 19880706; FI 875585 A0 19871218; FI 875585 A 19880620; JP S63234285 A 19880929

DOCDB simple family (application)

EP 87118861 A 19871218; FI 875585 A 19871218; JP 31915187 A 19871218