

Title (en)

Electroluminescent device and method for producing the same

Title (de)

Organisches Elektrolumineszenzelement und Verfahren zu dessen Erzeugung

Title (fr)

Dispositif électroluminescent et procédé de production

Publication

EP 1416775 A1 20040506 (EN)

Application

EP 03029040 A 20000103

Priority

- EP 00903079 A 20000103
- JP 744699 A 19990114

Abstract (en)

An electroluminescent (EL) device has a transparent conductive layer, binder layer placed at the back of the conductive layer surface, luminescent-particle layer applied at the back of the conductive layer through the binder layer, insulating layer which is placed on the back of the luminescent particle layer, and a rear electrode placed at the back of the insulating layer. An EL device comprises a transparent conductive layer with a binder layer that is placed on the back the transparent conductive layer. A luminescent - particle layer has a single layer of particles, which is applied on the back surface of the transparent conductive layer through the binder layer. An insulating layer has insulating particles, which are placed on the back surface of the luminescent - particle layer. A rear electrode is placed on the back surface of the insulating layer where the luminescent particles are embedded in the binder layer and not in the insulating layer. An independent claim is also included for a method for the production of an EL device comprising applying a coating for the formation of the first layer on either on the back surface of the transparent conductive layer or the surface of the insulating layer. The particles containing luminescent particles are placed in a layer that is formed on the applied coating. The coating is then solidified after partly embedding the particle layers to form the first layer of the binder resin with the luminescent particles adhered to it. A coating is applied for the formation of the second layer on the luminescent particle layer followed by solidifying the coating, without exposing the surfaces of the luminescent particles. The other transparent conductive layer and insulating layer are applied on the binder layer in which the luminescent particles are embedded.

IPC 1-7

H05B 33/12; **H05B 33/14**; **H05B 33/20**; **H05B 33/22**; **H05B 33/26**; **H05B 33/10**

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CPC (source: EP KR)

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Citation (search report)

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- [X] PATENT ABSTRACTS OF JAPAN vol. 018, no. 551 (E - 1619) 20 October 1994 (1994-10-20)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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