

Title (en)
ELECTROLUMINESCENT LAYERED ELEMENT

Title (de)
ELEKTROLUMINESZIERENDES SCHICHTELEMENT

Title (fr)
ÉLÉMENT STRATIFIÉ ÉLECTROLUMINESCENT

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Application
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Abstract (en)
[origin: WO2008119554A1] The invention relates to an electroluminescent layered element (1) comprising at least one light-permeable substrate (2); a light-permeable surface electrode (3) applied to the substrate (3); a first layer (5) comprising inorganic electroluminescent particles (6) incorporated into an organic binding material, the organic binding material of the first layer (5) having at least approximately identical refractive properties to those of the light-permeable substrate (2); and a rear electrode (9), the transparent surface electrode (3) and the rear electrode (9) being provided to supply the voltage and to produce an electrical field which excites the particles (6) incorporated into the first layer (5) in such a way as to emit light. The aim of the invention is to provide a mechanically stable and permanently durable layered element (1) having very good optical properties, especially avoiding total reflection inside the first layer (5). To this end, the binding material is based on polyvinyl butyral (PVB) or ethylene vinyl acetate (EVA).

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