

Title (en)  
METHOD FOR PRODUCING DEFECT-FREE LIGHT GUIDING ELEMENTS OF GREAT WIDTHS, PRODUCTION DEVICE AND DIFFRACTIVE LIGHT GUIDING ELEMENT

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON DEFEKTFREIEN LICHTLENKELEMENTEN GROSSER BREITE, VORRICHTUNG ZUR HERSTELLUNG UND DIFFRAKTIVES LICHTLENKELEMENT

Title (fr)  
PROCEDE DE FABRICATION D'UN ELEMENT SANS DEFAUT GUIDANT LA LUMIERE, DE GRANDE AMPLITUDE, DISPOSITIF POUR LA FABRICATION ET ELEMENT DE DIFFRACTION GUIDANT LA LUMIERE

Publication  
**EP 1993816 A1 20081126 (DE)**

Application  
**EP 07723266 A 20070314**

Priority  
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• DE 102006011949 A 20060315

Abstract (en)  
[origin: WO2007104555A1] A description is given of a method for producing a diffractive light guiding element by a continuous, single-stage reel-to-reel method, which comprises the following steps: a) applying a photosensitive coating composition to a flexible backing web, b) drying the coating composition, c) laminating on a flexible mask, d) exposing the coating composition through the mask in order to produce a refractive index gradient in the coating composition by the pattern-like exposure, and e) full-area curing of the coating composition in order to fix the refractive index gradient. This method can be used for producing high-value diffractive light guiding elements that are virtually free from inclusions or bubbles. Moreover, webs of very great widths can be produced. The light guiding elements are suitable for example for large-format applications, such as for example projection screens, projection TV or large-format LCD TV displays.

IPC 8 full level  
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CPC (source: EP KR US)  
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