

Title (en)
DEVICE FOR PRODUCING ISOTROPIC AMBIENT LIGHT

Title (de)
VORRICHTUNG ZUR ERZEUGUNG VON ISOTROPEM UMGEBUNGSLICHT

Title (fr)
DISPOSITIF DE PRODUCTION DE LUMIERE AMBIANTE ISOTROPE

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Application
EP 07731163 A 20070320

Priority

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Abstract (en)
[origin: WO2007107650A2] The invention concerns a device (1) for producing isotropic ambient light, comprising: at least one extended light source (Si) including several punctual light sources (101) spaced apart along two orthogonal axes (X, Y); a waveguide (11, 11') for propagating, by total reflections in a propagating direction (Z) perpendicular to the plane (X, Y), the light beams produced by the punctual light sources; and means (12) for scattering the light in the waveguide output (11, 11'). The dimension (L) of the waveguide (11, 11') along said propagating direction (Z) is further sufficient to allow the light intensity curve ($I_{_i, _x}$) which is detected, for each light source ($S_{_i, _y}$), in the waveguide output along one of the two axes (X or Y) and in a detecting range corresponding to the waveguide output section along said axis (X or Y), to have a maximum value (I_{max}) and a minimum value (I_{min}) which satisfy the following criterion of quasi-uniformity ($I_{max} - I_{moy} < 0.3 \cdot I_{moy}$ et ($I_{moy} - I_{min} = 0.3 \cdot I_{moy}$, I_{moy} being the average value of the light intensity levels ($I_{_{i, x}}$) detected along said axis (X or Y).

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