

Title (en)

LIGHT-CONDUCTING COMPONENT FOR CONSTRUCTIONS AND BUILDINGS AND ALSO PRODUCTION PROCESS THEREFOR

Title (de)

LICHT LEITENDES BAUTEIL FÜR BAUWERKE UND GEBÄUDE SOWIE HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

ÉLÉMENT CONDUCTEUR DE LUMIÈRE POUR CONSTRUCTIONS ET BÂTIMENTS ET PROCÉDÉ DE FABRICATION ASSOCIÉ

Publication

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Application

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Abstract (en)

[origin: CA2824946A1] Light-conducting component, in particular finished concrete part in the form of a masonry brick, for constructions and buildings, wherein the component is produced in a casting mould (29) by casting into at least one casting building material (19) and the optical waveguide (1) is made of a light-conducting building material, e.g. PMMA polymer or glass, which is accessible at at least two positions on the outer surface of the light-conducting component for the input of light (8) and output of light (9), where the optical waveguide (1) is configured as a self-supporting 2D or 3D lattice body (1) composed of rods (2, 3) having a thickness/diameter of greater than 1 mm, where the self-supporting 2D or 3D lattice body (1) has approximately the same or an only slightly smaller width (B), or length (L), or base dimensions (B, L), or total external dimensions (B, L, H) than the casting mould (29) itself. It is therefore an object of the present invention to develop a component, in particular a finished concrete part in the form of a masonry brick, for constructions and buildings in such a way that it can be produced significantly more quickly and cheaply.

IPC 8 full level

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