

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

EP 2665588 A1 20131127 (DE)

Application

EP 12703232 A 20120117

Priority

- DE 102011008853 A 20110118
- EP 2012000171 W 20120117

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

B28B 23/00 (2006.01); **E04C 1/42** (2006.01); **E04C 2/54** (2006.01); **G02B 6/00** (2006.01)

CPC (source: EP US)

B28B 23/0037 (2013.01 - EP US); **E04C 1/42** (2013.01 - EP US); **E04C 2/54** (2013.01 - EP US); **G02B 6/0001** (2013.01 - US); **Y10T 428/24182** (2015.01 - EP US)

Citation (search report)

See references of WO 2012097975A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

DE 102011008853 A1 20120719; AU 2012208728 A1 20130815; AU 2012208728 B2 20170413; CA 2824946 A1 20120726; CA 2824946 C 20180220; CN 103442863 A 20131211; CN 103442863 B 20160106; EP 2665588 A1 20131127; JP 2014508868 A 20140410; JP 5948347 B2 20160706; RU 2013138443 A 20150227; RU 2554958 C2 20150710; US 2014059952 A1 20140306; US 8997415 B2 20150407; WO 2012097975 A1 20120726

DOCDB simple family (application)

DE 102011008853 A 20110118; AU 2012208728 A 20120117; CA 2824946 A 20120117; CN 201280014108 A 20120117; EP 12703232 A 20120117; EP 2012000171 W 20120117; JP 2013549755 A 20120117; RU 2013138443 A 20120117; US 201213980314 A 20120117