

Title (en)

Illuminated roofing structure and method of construction

Title (de)

Beleuchtete Bedachungskonstruktion und Verfahren zum Aufbau

Title (fr)

Structure de toiture illuminée et procédé pour la construction

Publication

EP 2383400 A1 20111102 (EN)

Application

EP 11003438 A 20110427

Priority

US 77180610 A 20100430

Abstract (en)

An illuminated exterior roofing structure (20) has rafters (10) supported by the building, a plurality of pan tiles (30) supported by the rafters (10), and a plurality of convex roof tiles (50) positioned over the pan tiles (30). Each of the pan tiles (30) has a concave body (32) having a top surface (34) and an opposed bottom surface (36) connected by a perimeter edge (38), and is constructed of a light transmitting material. A light generating element (68) is mounted adjacent the perimeter edge (38) to direct generated light into the pan tile (30). A power distribution network (74) provides electric power to the light generating elements (68) of the pan tiles (30). The plurality of convex roof tiles (50) are mounted on top of and partially covering the pan tiles (30), and are adapted to resemble traditional roof tiles.

IPC 8 full level

E04D 1/04 (2006.01); **E04D 1/08** (2006.01); **F21V 33/00** (2006.01)

CPC (source: EP US)

E04D 1/08 (2013.01 - EP US); **E04D 13/00** (2013.01 - EP US); **F21V 33/006** (2013.01 - EP); **F21W 2121/004** (2013.01 - EP);
F21Y 2115/10 (2016.07 - EP US); **F21Y 2115/30** (2016.07 - EP)

Citation (applicant)

- US 7549784 B1 20090623 - TEETERS RACHEL [US]
- US 7410284 B2 20080812 - EDMONDS IAN ROBERT [AU]
- US 2007133193 A1 20070614 - KIM STEVEN [US]
- US 5806263 A 19980915 - COLEMAN WILLIAM J [US]
- US 6922951 B1 20050802 - INZEJO JOSEPH A [US], et al
- US 2587855 A 19520304 - JOHNSON OSCAR F
- US 5375045 A 19941220 - RUUD ALAN J [US], et al
- DE 202007005103 U1 20070802 - KRAUSE THOMAS [DE]
- BR 9803622 A 20000509 - LINDOVAL CARDINS ARAUJO [BR]
- US 5493825 A 19960227 - GASTON JOHANNES N [US]
- US 5303525 A 19940419 - MAGEE JOHN A [US]
- US 3998017 A 19761221 - WHITLOCK DONALD M
- US 3332192 A 19670725 - GERALD KESSLER, et al
- US 3282012 A 19661101 - DU PRADAL ROGER VIGUIER
- US 3261132 A 19660719 - MILLER MAURICE M
- US 2093559 A 19370921 - HOBBIE EDWARD H
- US 2159665 A 19390523 - LYTLE WILLIAM O
- US 640338 A 19000102 - TURNLEY WILLIAM DAVIS [US]

Citation (search report)

- [Y] US 6044602 A 20000404 - CANAVAN JOHN P [US]
- [XY] NL 1028080 C2 20060724 - KAMPS LAMBERT FLORIS [NL]
- [XY] WO 2007019183 A2 20070215 - BANISTER MARK [US]
- [Y] WO 02095287 A1 20021128 - RUSSELL MICHAEL GULVIN [GB], et al
- [Y] US 2009147504 A1 20090611 - TEETERS RACHEL [US]

Cited by

CN105507501A

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2383400 A1 20111102

DOCDB simple family (application)

EP 11003438 A 20110427