

Title (en)  
TILE LIGHTING METHODS AND SYSTEMS

Title (de)  
MOSAIK-BELEUCHTUNGSVERFAHREN UND -SYSTEME

Title (fr)  
PROCEDES ET SYSTEMES D'ECLAIRAGE DE DALLES

Publication  
**EP 1620843 B1 20150902 (EN)**

Application  
**EP 04760087 A 20040421**

Priority  

- US 2004012314 W 20040421
- US 46418503 P 20030421
- US 46791303 P 20030505
- US 50075403 P 20030905
- US 52390303 P 20031120
- US 55840004 P 20040331

Abstract (en)  
[origin: WO2004094896A2] A tile lighting system is provided in which an interior space of a tile is lit by LEDs, such as in a grid or edge-lit formation, and a light diffusing panel is disposed over the interior space. The tile lighting system can be combined with others to tile any surface, such as a floor, ceiling, wall, or building exterior. Lighting control signals can be supplied to generate a wide range of effects on the tile lighting units, including effects coordinated among different tile lighting units. Two- and three-dimensional embodiments are contemplated.

IPC 8 full level  
**B60Q 1/06** (2006.01); **B60Q 1/26** (2006.01); **E04F 13/08** (2006.01); **E04F 15/02** (2006.01); **F21S 8/00** (2006.01); **F21V 19/00** (2006.01); **F21V 21/00** (2006.01); **F21V 23/04** (2006.01); **F21V 29/00** (2015.01); **F21V 33/00** (2006.01); **G09F 3/04** (2006.01); **G09F 9/302** (2006.01); **G09F 11/00** (2006.01); **G09F 13/02** (2006.01); **G09G 3/32** (2006.01); **G09G 3/34** (2006.01); **G09G 5/00** (2006.01); **H01L 33/00** (2010.01); **H01L 33/48** (2010.01); **H01L 33/50** (2010.01); **H05B 44/00** (2022.01); **F21Y 115/10** (2016.01)

IPC 8 main group level  
**F21S** (2006.01)

CPC (source: EP US)  
**E04F 13/08** (2013.01 - EP US); **E04F 15/02** (2013.01 - EP); **F21V 23/04** (2013.01 - EP); **F21V 33/006** (2013.01 - EP); **G09F 9/3026** (2013.01 - EP); **E04F 2290/026** (2013.01 - EP); **F21Y 2115/10** (2016.07 - EP US)

Cited by  
DE102018213564A1; EP3436791A4; CN108510898A; WO2018150095A1; WO2018022017A1; US10891782B2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2004094896 A2 20041104; WO 2004094896 A3 20050922**; CN 103017017 A 20130403; CN 103017017 B 20190514; DK 3419388 T3 20200824; DK 3722533 T3 20221205; EP 1620843 A2 20060201; EP 1620843 A4 20130821; EP 1620843 B1 20150902; EP 1620843 B8 20151111; EP 3002512 A1 20160406; EP 3002512 B1 20180919; EP 3419388 A2 20181226; EP 3419388 A3 20190116; EP 3419388 B1 20200617; EP 3721958 A1 20201014; EP 3721959 A1 20201014; EP 3721959 B1 20221123; EP 3722533 A1 20201014; EP 3722533 B1 20221026; ES 2814649 T3 20210329; ES 2935908 T3 20230313; ES 2936257 T3 20230315; FI 3722533 T3 20230113; HK 1088431 A1 20061103; HK 1221277 A1 20170526; HU E051881 T2 20210329; HU E060631 T2 20230428; HU E061062 T2 20230528; JP 2007525690 A 20070906; PL 1620843 T3 20160129; PL 3419388 T3 20210125; PL 3722533 T3 20230306; SI 3419388 T1 20201231; SI 3722533 T1 20230131

DOCDB simple family (application)  
**US 2004012314 W 20040421**; CN 201210470710 A 20040421; DK 18182693 T 20040421; DK 20172248 T 20040421; EP 04760087 A 20040421; EP 15174450 A 20040421; EP 18182693 A 20040421; EP 20172248 A 20040421; EP 20172261 A 20040421; EP 20172270 A 20040421; ES 18182693 T 20040421; ES 20172248 T 20040421; ES 20172270 T 20040421; FI 20172248 T 20040421; HK 06108506 A 20060731; HK 16109278 A 20060731; HU E18182693 A 20040421; HU E20172248 A 20040421; HU E20172270 A 20040421; JP 2006513195 A 20040421; PL 04760087 T 20040421; PL 18182693 T 20040421; PL 20172248 T 20040421; SI 200432499 T 20040421; SI 200432524 T 20040421