

Title (en)
EXPLOSION-PROOF LUMINAIRE

Title (de)
EXPLOSIONSGESCHÜTZTE LEUCHTE

Title (fr)
LUMINAIRE ANTIDÉFLAGRANT

Publication
EP 3631292 A1 20200408 (DE)

Application
EP 18726444 A 20180518

Priority
• DE 102017112146 A 20170601
• EP 2018063150 W 20180518

Abstract (en)
[origin: WO2018219695A1] The invention relates to a luminaire (10) comprising an internal space (15) which is divided into a first section (17) and a second section (18) by a separating wall (16). While the first section (17) is free and contains at least one light source, an operating circuit (25) for the light source (19) and/or other components forming potential ignition sources and/or other components that are not considered as ignition sources are arranged in the section section (18). The section (18) is provided with an open-pore filling material. The separating wall (16) has at least one opening (22) which permits a fluidic connection between the two sections (17, 18). The section (18) of the internal space (15) provided with filling material (29) functions as a pressure-relief volume for the first section (17), in which the light source (19) is arranged. The filling material (29) can entirely or partially fill the section (18).

IPC 8 full level
F21V 25/12 (2006.01); **F21V 23/00** (2015.01); **F21V 31/04** (2006.01); **F21Y 115/10** (2016.01)

CPC (source: EP KR US)
F21V 23/006 (2013.01 - KR); **F21V 25/12** (2013.01 - EP KR US); **F21V 31/005** (2013.01 - US); **F21V 31/04** (2013.01 - EP KR);
F21V 17/12 (2013.01 - US); **F21V 19/001** (2013.01 - US); **F21V 23/006** (2013.01 - EP); **F21V 31/04** (2013.01 - US);
F21Y 2115/10 (2016.07 - EP KR US)

Citation (search report)
See references of WO 2018219695A1

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)
WO 2018219695 A1 20181206; DE 102017112146 A1 20181206; EP 3631292 A1 20200408; EP 3631292 B1 20210707;
ES 2884025 T3 20211210; KR 102500893 B1 20230220; KR 20200014826 A 20200211; PL 3631292 T3 20211122; US 11371689 B2 20220628;
US 2020116343 A1 20200416

DOCDB simple family (application)
EP 2018063150 W 20180518; DE 102017112146 A 20170601; EP 18726444 A 20180518; ES 18726444 T 20180518;
KR 20197038500 A 20180518; PL 18726444 T 20180518; US 201816618220 A 20180518