

Title (en)

LAYER STRUCTURE WITH SYMBOLS WHICH CAN BE ILLUMINATED AND USE THEREOF

Title (de)

SCHICHTAUFBAU MIT BELEUCHTBAREN SYMBOLEN UND DESSEN VERWENDUNG

Title (fr)

STRUCTURE EN COUCHES COMPORTANT DES SYMBOLES POUVANT ÊTRE ILLUMINÉS ET SON UTILISATION

Publication

EP 3529532 A1 20190828 (DE)

Application

EP 17780451 A 20171012

Priority

- EP 16194470 A 20161018
- EP 2017076014 W 20171012

Abstract (en)

[origin: WO2018073087A1] The invention relates to a layer structure (S) for an operating element which can be illuminated, comprising or consisting of the following layers in the specified sequence: A) a first symbol layer (7) comprising at least one symbol; B) a light-guiding flat element (3) into which light from a first light source (4) can be coupled via at least one of the abutting edges of the flat element, wherein the light propagates within the light-guiding flat element (3) in a lateral manner and is at least partly emitted on the element flat side facing away from the first symbol layer (7); C) optionally a transparent intermediate layer (2); D) a second symbol layer (1) comprising at least one symbol; and E) optionally a protective layer (9), wherein light can be coupled into the layer structure (S) by means of a second light source (5) from the first symbol layer (7) flat side facing away from the light-guiding flat element (3). The invention further relates to the production of such a layer structure (S), to a decorative element which can be illuminated and comprises such a layer structure (S), and to the use of the decorative element and the layer structure (S).

IPC 8 full level

F21V 8/00 (2006.01)

CPC (source: EP)

G02B 6/006 (2013.01); **G02B 6/0068** (2013.01); **B60K 2360/34** (2024.01)

Citation (search report)

See references of WO 2018073087A1

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 2018073087 A1 20180426; EP 3529532 A1 20190828

DOCDB simple family (application)

EP 2017076014 W 20171012; EP 17780451 A 20171012