

Title (en)
LIGHT AND SOUND SIGNALLING DEVICE

Title (de)
OPTISCHES UND AKUSTISCHES SIGNALISIERUNGSORGAN

Title (fr)
ORGANE DE SIGNALISATION LUMINEUX ET SONORE

Publication
EP 3236146 B1 20180711 (FR)

Application
EP 17161988 A 20170321

Priority
FR 1653526 A 20160421

Abstract (en)
[origin: CN107305766A] The invention relates to a signal device including a cover part, a light source (22) installed on a support circuit board (20) and vibration generators (25, 26) used for transmitting acoustic waves, the cover part is such formed that at least part of it is a semi-transparent outer wall (11), and the device is characterized in that the light source (22) is located between the vibration generators (25, 26) and the outer wall (11); the cover part includes a connecting column (12), the connecting column passes through the support circuit board (20) and the vibration generators (25, 26) are fixed to the connecting column.

IPC 8 full level
F21V 33/00 (2006.01); **F21V 15/01** (2006.01); **F21V 23/00** (2015.01); **G08B 7/06** (2006.01); **F21V 23/04** (2006.01); **F21V 31/00** (2006.01); **F21W 111/00** (2006.01); **F21W 131/403** (2006.01); **F21Y 105/18** (2016.01); **F21Y 115/10** (2016.01)

CPC (source: CN EP US)
F21K 9/68 (2016.07 - US); **F21V 15/01** (2013.01 - EP US); **F21V 23/005** (2013.01 - EP US); **F21V 33/00** (2013.01 - EP US); **F21V 33/0052** (2013.01 - US); **G08B 7/06** (2013.01 - US); **G10K 9/121** (2013.01 - CN); **G10K 9/122** (2013.01 - US); **G10K 9/22** (2013.01 - CN); **F21V 23/0435** (2013.01 - EP US); **F21V 31/00** (2013.01 - EP US); **F21V 33/0056** (2013.01 - EP US); **F21W 2111/00** (2013.01 - EP US); **F21W 2131/403** (2013.01 - EP US); **F21Y 2105/18** (2016.07 - EP US); **F21Y 2115/10** (2016.07 - EP US)

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)
EP 3236146 A1 20171025; EP 3236146 B1 20180711; CN 107305766 A 20171031; CN 107305766 B 20230721; FR 3050514 A1 20171027; JP 2018022467 A 20180208; JP 6896494 B2 20210630; US 10019876 B2 20180710; US 2017309141 A1 20171026

DOCDB simple family (application)
EP 17161988 A 20170321; CN 201710203730 A 20170330; FR 1653526 A 20160421; JP 2017083933 A 20170420; US 201715451977 A 20170307