

Title (en)
LIGHT SOURCE FOR THE SIGNALING SYSTEM OF A MOTOR VEHICLE

Title (de)
LICHTQUELLE FÜR EIN SIGNALSYSTEM EINES KRAFTFAHRZEUGS

Title (fr)
SOURCE LUMINEUSE POUR LA SIGNALISATION D'UN VÉHICULE AUTOMOBILE

Publication
EP 4292140 A1 20231220 (FR)

Application
EP 22704764 A 20220209

Priority
• FR 2101236 A 20210209
• EP 2022053177 W 20220209

Abstract (en)
[origin: WO2022171705A1] Disclosed is a light source (100) of a matrix arrangement of light sources of a motor vehicle lighting module, comprising: a substrate (120) having an upper face (122), a lower face (121) opposite the upper face, and an electronic circuit (150); at least one light-emitting element (130) which is mounted on the upper face of the substrate and includes a light-emitting part; and an optical device for forming the light beams emitted by the light-emitting element; the lower face comprising connection contacts (151) connected to the electronic circuit, the electronic circuit being adapted to power the at least one light-emitting element; the light-emitting part of at least one light-emitting element having a surface area of less than 40,000 μm^2 ; the beam-forming optical device having an optical element (140) on the upper face of the substrate and/or on the light-emitting part of the at least one light-emitting element.

IPC 8 full level
B60Q 1/26 (2006.01); **H01L 33/62** (2010.01); **B60Q 1/34** (2006.01); **B60Q 1/50** (2006.01); **B60Q 1/52** (2006.01); **F21S 43/14** (2018.01); **F21S 43/20** (2018.01); **F21S 43/30** (2018.01); **F21S 43/31** (2018.01); **F21S 43/40** (2018.01); **H01L 33/58** (2010.01); **H01L 33/60** (2010.01)

CPC (source: EP US)
F21S 43/14 (2018.01 - EP US); **F21S 43/195** (2018.01 - US); **F21S 43/26** (2018.01 - EP); **F21S 43/31** (2018.01 - EP); **F21S 43/315** (2018.01 - US); **F21S 43/33** (2018.01 - US); **F21S 43/40** (2018.01 - EP); **H01L 33/58** (2013.01 - EP); **H01L 33/60** (2013.01 - EP); **H01L 33/62** (2013.01 - EP)

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
FR 3119663 A1 20220812; **FR 3119663 B1 20230519**; CN 116868356 A 20231010; EP 4292140 A1 20231220; US 2024044472 A1 20240208; WO 2022171705 A1 20220818

DOCDB simple family (application)
FR 2101236 A 20210209; CN 202280013926 A 20220209; EP 2022053177 W 20220209; EP 22704764 A 20220209; US 202218264450 A 20220209