

Title (en)
Light signal

Title (de)
Lichtsignal

Title (fr)
Signal lumineux

Publication
EP 1538059 B1 20060726 (DE)

Application
EP 04090427 A 20041109

Priority
DE 10358053 A 20031205

Abstract (en)
[origin: EP1538059A1] The signal unit consists of a lamp and a first optical system (3), and a second optical system (6) between the two. The focal point (9) of the second system mainly coincides with the light entry-sided focal point of the first system. The lamp is an LED unit, e.g. single LED with a focusing lens to form the second optical system, or an LED matrix (7) with a number of mainly similar LED modules (8), which define a mainly circular light surface.

IPC 8 full level
B61L 5/18 (2006.01); **F21K 99/00** (2010.01); **G08G 1/095** (2006.01); **F21V 5/04** (2006.01)

CPC (source: EP US)
B61L 5/1845 (2013.01 - EP US); **F21K 9/69** (2016.07 - EP US); **F21V 5/04** (2013.01 - EP US); **B61L 2207/02** (2013.01 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Cited by
EP2202458A3; EP2163455A3; US8067881B2; WO2011023479A1; WO2011157597A1; EP2113712A1; DE102008022344A1; EP2113439A2; DE102008022346A1; EP2163455A2; DE102008047664A1

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DOCDB simple family (publication)
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