Title (en)
LED track signal for rail transport and interface for such an LED track signal

Title (de)
LED-Streckensignal für den Schienenverkehr sowie Schnittstelle für ein solches LED-Streckensignal

Title (fr)
Signal de trajectoire à LED pour le transport ferroviaire et interface pour un tel signal de trajectoire à LED

Publication
EP 2687418 A3 20140514 (DE)

Application
EP 13177492 A 20130722

Priority
DE 102012106630 A 20120720

Abstract (en)
[origin: EP2687418A2] The box (10) has a LED unit (12) for creation of a light signal, and an interface (14) for integration of the box into a signaling system. The interface comprises a characteristic curve replication unit (22) for creation of a determined current and voltage behavior of the box. The interface comprises a logic unit (16) and a separate configuration memory (18), where parameters for adjusting the current and voltage behavior to a given voltage behavior are stored in the memory. The logic unit controls the characteristic curve replication unit based on the parameters stored in the memory. The parameters are selected from a group consisting of day/night switching parameters, plausibility parameters of a driving voltage, plausibility parameters of a power supply, simulation parameters of a known distance signal lamp i.e. route signal bulb, day/night parameters for an LED supply, minimum or maximum parameters for LED current monitoring, minimum or maximum parameters for LED voltage monitoring, error response parameters for determining an error response behavior of a logic unit and/or parameters used in the LED unit.

IPC 8 full level
B61L 5/18 (2006.01)

CPC (source: EP)
B61L 5/1881 (2013.01); B61L 2207/02 (2013.01)

Citation (search report)
- [I] EP 2463174 A1 20120613 - SIEMENS SCHWEIZ AG [CH]
- [A] US 2005062481 A1 20050324 - VAUGHN THOMAS [US], et al
- [A] EP 2124507 A2 20091125 - SIEMENS AG [DE]

Cited by
US10582588B2; WO2016166591A2

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)
DE 202013103303 U1 20130905; DE 102012106630 A1 20140123; EP 2687418 A2 20140122; EP 2687418 A3 20140514; EP 2687418 B1 20150909

DOCDB simple family (application)
DE 202013103303 U 20130722; DE 102012106630 A 20120720; EP 13177492 A 20130722