

Title (en)
LANTERN FOR EMITTING A WARNING SIGNAL IN A CIRCULAR MANNER

Title (de)
LATERNE ZUM RUNDUMABSTRAHLEN EINES WARNSIGNALS

Title (fr)
LANterne POUR METTRE UN SIGNAL D'ALARME DE MANIÈRE CIRCULAIRE

Publication
EP 1761726 A1 20070314 (DE)

Application
EP 05774127 A 20050615

Priority
• EP 2005052764 W 20050615
• DE 202004009781 U 20040622
• DE 202005000916 U 20050120

Abstract (en)
[origin: WO2005124224A1] The invention relates to a lantern comprising a base body (1), an annular shaped support element (10) and an internal and external belt optical system (16, 2). Illuminating means are arranged in an annular manner on the support element (10) which comprises a belt reflector (17, 18). Each illuminating means (15) emits light in relation to the axis of the lantern (14) in a radial manner towards the outside in an solid angle area, which covers a polar angle (delta), in relation to the lantern axis (14), which is considerably greater than a desired polar angle area (B), wherein the warning signal is emitted about an average polar direction (alpha). The light emitted by the illuminating means (15) transverses the belt optical system (16, 2) either without hitting the belt reflector (17, 18), or after being reflected by the belt reactor (17, 18) in a radial manner towards the outside. Illuminating means (15), the belt reactor (17, 18) and a belt optical system (2, 16) are adapted in relation to each other such that the total light, exiting from the external belt optical system (2) within the desired polar angle area (beta), is emitted in a polar direction about the average polar direction (alpha).

IPC 8 full level
F21S 8/00 (2006.01); **F21V 5/04** (2006.01); **F21V 13/04** (2006.01); **F21K 99/00** (2010.01)

CPC (source: EP US)
F21V 5/046 (2013.01 - EP US); **F21V 13/04** (2013.01 - EP US); **F21S 10/06** (2013.01 - EP US); **F21W 2111/00** (2013.01 - EP US); **F21W 2111/06** (2013.01 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)
See references of WO 2005124224A1

Cited by
EP3034934A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005124224 A1 20051229; AR 052518 A4 20070321; AT E382825 T1 20080115; AU 2005255158 A1 20051229; AU 2005255158 B2 20100513; BR PI0512438 A 20080304; CA 2570360 A1 20051229; CA 2570360 C 20101102; DE 502005002430 D1 20080214; DK 1761726 T3 20080331; EP 1761726 A1 20070314; EP 1761726 B1 20080102; ES 2299071 T3 20080516; US 2008025020 A1 20080131

DOCDB simple family (application)
EP 2005052764 W 20050615; AR M050102499 A 20050617; AT 05774127 T 20050615; AU 2005255158 A 20050615; BR PI0512438 A 20050615; CA 2570360 A 20050615; DE 502005002430 T 20050615; DK 05774127 T 20050615; EP 05774127 A 20050615; ES 05774127 T 20050615; US 63086705 A 20050615