

Title (en)
Lighting device, in particular for tunnel lighting

Title (de)
Leuchte, insbesondere zur Tunnelbeleuchtung

Title (fr)
Dispositif d'éclairage, en particulier pour tunnels

Publication
EP 1684006 A3 20100303 (DE)

Application
EP 05027685 A 20051216

Priority
DE 102005002563 A 20050119

Abstract (en)
[origin: EP1684006A2] The fixture has a lamp (4) and a ballast (10) for operating the lamp. A latent heat storage unit (7) containing a phase changing material is integrated in the fixture for protecting the ballast from heat. The storage unit partly and outwardly shields the ballast. The phase changing material is water, paraffin or salt hydrate. The ballast is thermally isolated from the housing of the fixture and is thermally connected with the unit (7).

IPC 8 full level
F21V 15/06 (2006.01); **F21V 23/02** (2006.01); **F21V 29/15** (2015.01); **F21W 131/101** (2006.01)

CPC (source: EP US)
F21V 23/02 (2013.01 - EP); **F21V 29/15** (2015.01 - EP); **F21V 29/51** (2015.01 - EP US); **F21V 31/04** (2013.01 - EP); **F21W 2131/101** (2013.01 - EP); **F21Y 2103/00** (2013.01 - EP US)

Citation (search report)

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- [X] US 5852339 A 19981222 - HAMILTON ROBIN E [US], et al
- [A] EP 1302722 A2 20030416 - LMT LEUCHTEN & METALL TECHNIK [DE]
- [A] DE 3622109 A1 19880107 - PROMAT GMBH [DE]

Cited by
EP2093484A1; EP2455657A1; US9121590B2; WO2013192499A1; WO2011104308A1

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 LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1684006 A2 20060726; EP 1684006 A3 20100303; EP 1684006 B1 20130522; DE 102005002563 A1 20060727; NO 20060226 L 20060720

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EP 05027685 A 20051216; DE 102005002563 A 20050119; NO 20060226 A 20060116