

Title (en)

HEAT SINK FOR LIGHTING DEVICE

Title (de)

WÄRMESENKE FÜR EINE BELEUCHTUNGSVORRICHTUNG

Title (fr)

DISSIPATEUR THERMIQUE POUR DISPOSITIF D'ÉCLAIRAGE

Publication

EP 4089323 A1 20221116 (EN)

Application

EP 21290030 A 20210512

Priority

EP 21290030 A 20210512

Abstract (en)

Heat sink (1) for a lighting device (100), comprising a base panel (2) having a top surface (20) and a bottom surface (21), and a plurality of pin fins (3) each extending outwardly from the top surface (20) in a protruding direction (4). The bottom surface (21) comprises a mounting section (22) for mounting a light source (200) so as to transfer heat from the light source (200) via the base panel (2) to the pin fins (3) by thermal conduction. The pin fins (3) each have a cross-sectional configuration, when viewed along the protruding direction (4), with a central section (30) and two extension sections (31) extending along an extension direction (5) from opposite sides of the central section (30) so as to taper with increased distance from the central section (30).

IPC 8 full level

F21V 29/81 (2015.01); **F21V 21/30** (2006.01); **F21V 29/89** (2015.01); **F21W 131/10** (2006.01); **F21Y 105/12** (2016.01)

CPC (source: EP)

F21V 29/81 (2015.01); **F21V 21/30** (2013.01); **F21V 29/89** (2015.01); **F21W 2131/10** (2013.01); **F21Y 2105/12** (2016.07)

Citation (search report)

- [E] WO 2021180706 A1 20210916 - SCHREDER SA [BE]
- [X] US 10302371 B2 20190528 - KADIJK SIMON EME [NL], et al
- [XI] US 7712926 B2 20100511 - MATHESON GEORGE E [CA]
- [XI] US 2012199336 A1 20120809 - HSU TAKEHO [TW]

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)

EP 4089323 A1 20221116; EP 4089324 A1 20221116

DOCDB simple family (application)

EP 21290030 A 20210512; EP 22290030 A 20220511