

Title (en)
HIGH PERFORMANCE LED FLOODLIGHT AND FLOODLIGHT SYSTEM USING THE SAME FOR ILLUMINATION OF SPORT HALLS

Title (de)
HOCHLEISTUNGS-LED-FLUTLICHTLEUCHTEN SOWIE DIESE VERWENDENDE FLUTLICHTANLAGEN ZUR BELEUCHTUNG VON SPORTPLÄTZEN

Title (fr)
PROJECTEUR À DEL DE HAUTE PERFORMANCE, ET SYSTÈME DE PROJECTION COMPRENANT CE PROJECTEUR POUR ÉCLAIRER DES TERRAINS SPORTIFS

Publication
EP 3583353 B1 20201125 (DE)

Application
EP 18712790 A 20180216

Priority
• DE 102017103256 A 20170216
• DE 2018100142 W 20180216

Abstract (en)
[origin: WO2018149457A1] The invention relates to high power LED floodlight lamps (1) for arrangement on floodlight towers (2) on the lateral edges of a sports field for illumination thereof, wherein each LED floodlight lamp (1) comprises 4 LED emitters (14), which are formed at least from a housing (6), a cooling element (5), a reflector lens and a high power LED chip, wherein the LED emitters (14) are arranged in pairs on a carrier frame having joint connections, wherein an upper LED emitter pair (15) sits on a common carrier element (4), aligned parallel, and has a reflector lens, which effects a narrow emission angle, whereby the light emission of said LED emitter pair (15) is amplified, equally aligned, and thus overcomes additional sections in order to reach the center region of the sports field, whereas a lower LED emitter pair (16) sits on a separately alignable carrier element (4') and has reflector lenses which effect a wide emission angle, whereby the light emission of said LED emitter pair (16) is alignable separate from each other for targeted illumination of the edge regions of the sports field located closer to the floodlight tower.

IPC 8 full level
F21V 21/28 (2006.01); **F21S 8/08** (2006.01); **F21V 7/00** (2006.01); **F21V 21/30** (2006.01); **F21W 131/105** (2006.01); **F21Y 115/10** (2016.01)

CPC (source: EP US)
F21S 8/085 (2013.01 - EP US); **F21V 7/0066** (2013.01 - US); **F21V 21/28** (2013.01 - EP US); **F21V 21/30** (2013.01 - EP US); **F21V 29/773** (2015.01 - US); **F21V 7/0066** (2013.01 - EP); **F21V 29/773** (2015.01 - EP); **F21W 2131/105** (2013.01 - EP US); **F21Y 2115/10** (2016.07 - EP US)

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

DOCDB simple family (publication)
DE 102017103256 A1 20180816; CN 110520672 A 20191129; CN 110520672 B 20210622; EP 3583353 A1 20191225; EP 3583353 B1 20201125; ES 2860073 T3 20211004; US 11054099 B2 20210706; US 2020049319 A1 20200213; WO 2018149457 A1 20180823

DOCDB simple family (application)
DE 102017103256 A 20170216; CN 201880025185 A 20180216; DE 2018100142 W 20180216; EP 18712790 A 20180216; ES 18712790 T 20180216; US 201816486630 A 20180216