

Title (en)  
LAMP HAVING AIR-CONDUCTING SURFACES

Title (de)  
LEUCHTE MIT LUFTLEITFLÄCHEN

Title (fr)  
APPAREIL D'ÉCLAIRAGE POURVU DE SURFACES DE GUIDAGE D'AIR

Publication  
**EP 2929237 A1 20151014 (DE)**

Application  
**EP 13799063 A 20131203**

Priority  
• DE 102012222184 A 20121204  
• EP 2013075367 W 20131203

Abstract (en)  
[origin: WO2014086770A1] The invention relates to a lamp, which has a light source (2) having several light-emitting elements (3), in particular in the form of LEDs. The lamp has first passage openings (5) on a first side (re) next to the light source (2) and second passage openings (7) on a second side (li) next to the light source. The passage openings (5, 7) are designed for an air flow for cooling the light source (2). The lamp also has a first air-conducting surface (6) on the first side (re) next to the first passage openings (5) and below the light source (2) and a second air-conducting surface (8) on the second side (li) next to the second passage openings (7) and below the light source (2), wherein the two air-conducting surfaces (6, 8) are designed in such a way that the two air-conducting surfaces form an air incidence region (A) that expands away from the light source (2). Thus, air can be directed to the passage openings (5, 7) in a particularly targeted manner. In this way, flow through the passage openings (5, 7) is forced and thus especially effective heat discharge from the surfaces of the passages openings (5, 7) to the environment is enabled.

IPC 8 full level  
**F21V 29/00** (2015.01); **F21S 8/06** (2006.01); **F21V 7/00** (2006.01)

CPC (source: CN EP US)  
**F21S 8/06** (2013.01 - CN EP US); **F21V 7/00** (2013.01 - CN); **F21V 7/005** (2013.01 - EP US); **F21V 29/83** (2015.01 - EP US);  
**F21W 2131/105** (2013.01 - EP US); **F21W 2131/407** (2013.01 - EP US); **F21Y 2105/10** (2016.07 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)  
See references of WO 2014086770A1

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 102012222184 A1 20140605**; CN 104870891 A 20150826; CN 104870891 B 20200717; DE 212013000200 U1 20150420;  
EP 2929237 A1 20151014; EP 2929237 B1 20180214; EP 3249292 A1 20171129; EP 3249292 B1 20200624; PL 2929237 T3 20180629;  
US 2015300624 A1 20151022; US 9791142 B2 20171017; WO 2014086770 A1 20140612

DOCDB simple family (application)  
**DE 102012222184 A 20121204**; CN 201380062746 A 20131203; DE 212013000200 U 20131203; EP 13799063 A 20131203;  
EP 17174955 A 20131203; EP 2013075367 W 20131203; PL 13799063 T 20131203; US 201314649094 A 20131203