

Title (en)
Lamp

Title (de)
Lampe

Title (fr)
Lampe

Publication
EP 2824379 B1 20210519 (DE)

Application
EP 14176776 A 20140711

Priority
DE 102013213684 A 20130712

Abstract (en)
[origin: CN203823471U] The utility model relates to a lamp bulb, in particular to an improved lamp bulb with a lamp holder. The lamp bulb is provided with an airtight lampshade, a lamp group and a heat-transferring medium, wherein the airtight lampshade is connected with the lamp holder and provided with at least one transparent part and serves as a heat-radiating body of the lamp, the lamp group includes multiple 4n-arranged photoelectric elements located in the lampshade and playing roles in all directions, and the heat-transferring medium is embedded into the lampshade in a gaseous state and used for transferring heat energy produced by the lamp group to the lampshade serving as the heat-radiating body.

IPC 8 full level
F21K 9/232 (2016.01); **F21V 3/00** (2015.01); **F21V 23/00** (2015.01); **F21V 29/00** (2015.01); **F21Y 111/00** (2016.01)

CPC (source: EP US)
F21K 9/232 (2016.07 - EP US); **F21K 9/27** (2016.07 - EP US); **F21V 3/061** (2018.01 - EP US); **F21V 3/062** (2018.01 - EP US); **F21V 29/50** (2015.01 - US); **F21V 29/506** (2015.01 - EP); **F21V 29/65** (2015.01 - EP); **F21V 29/677** (2015.01 - EP); **F21V 23/0464** (2013.01 - EP); **F21Y 2107/00** (2016.07 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (examination)
• US 8227962 B1 20120724 - SU ALLEN HUI LONG [CA]
• CA 2687529 A1 20100823 - SU ALLEN H L [CA]

Cited by
CN105485534A; US11332066B2

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 202013009434 U1 20131105; CN 203823471 U 20140910; DE 102014213560 A1 20150115; DE 102014213561 A1 20150115; EP 2824379 A1 20150114; EP 2824379 B1 20210519; HU 4525 U 20150428

DOCDB simple family (application)
DE 202013009434 U 20131024; CN 201320849152 U 20131220; DE 102014213560 A 20140711; DE 102014213561 A 20140711; EP 14176776 A 20140711; HU 1300242 U 20131216