

Title (en)

Compact lighting device, in particular for use in a dental lamp

Title (de)

Kompakte Beleuchtungsvorrichtung, insbesondere anwendbar bei einer zahnärztlichen Lampe

Title (fr)

Dispositif d'éclairage compact, en particulier à utiliser dans une lampe dentaire

Publication

**EP 1847762 A2 20071024 (EN)**

Application

**EP 07106219 A 20070416**

Priority

- IT MI20060770 A 20060419
- IT MI20061812 A 20060926

Abstract (en)

A lighting device (10), in particular for use in a dental lamp, characterised in that it comprises one or more optical groups, each of which comprises an LED light source (11), a collimation group (12) and a reflector (13), the collimation groups (12) being arranged close to the respective LED light sources (11) and converging the light radiation coming from them in respective cones, the vertices of which are located close to a common point, which defines the first focus of an ellipsoid, and which intersect the surface of the ellipsoid defining respective areas, at which the respective reflectors (13) are arranged, the surfaces of which come near to that of said ellipsoid.

IPC 8 full level

**F21S 8/00** (2006.01); **F21W 131/202** (2006.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)

**F21V 7/0008** (2013.01 - EP US); **F21V 14/02** (2013.01 - EP); **F21V 29/75** (2015.01 - EP); **F21V 29/76** (2015.01 - EP); **F21V 29/763** (2015.01 - EP); **F21V 29/777** (2015.01 - EP); **F21K 9/68** (2016.07 - EP US); **F21V 7/09** (2013.01 - EP); **F21V 21/40** (2013.01 - EP); **F21W 2131/202** (2013.01 - EP); **F21Y 2115/10** (2016.07 - EP US)

Cited by

CN101893187A; EP2392854A3; CN102753881A; CN101936469A; EP2270390A3; US9874322B2; DE202010016955U1; US10514139B2; US10451253B2; WO2013010718A1; WO2012030387A3; WO2011098513A3; US9488330B2; US9441798B2; US8376578B2; US8905575B2; US10012354B2; US10648643B2; US8870417B2; US9777897B2; US10527225B2; TWI568966B; USRE48620E; USRE49228E; US9822951B2; US10823347B2; US11209135B2; US8931929B2; US10309627B2; US10544925B2; US11408569B2; US9423104B2; US10054274B2; US10228111B2; US10883702B2; US11306895B2

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1847762 A2 20071024**; **EP 1847762 A3 20080827**; **EP 1847762 B1 20090708**; AT E435997 T1 20090715; DE 602007001479 D1 20090820; ES 2330054 T3 20091203; HK 1105223 A1 20080206; PL 1847762 T3 20100129

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**EP 07106219 A 20070416**; AT 07106219 T 20070416; DE 602007001479 T 20070416; ES 07106219 T 20070416; HK 07113515 A 20071212; PL 07106219 T 20070416