

Title (en)
Surgical lamp and method of illumination of an operating theatre

Title (de)
Operationsleuchte

Title (fr)
Lampe chirurgicale et procédé d'illumination d'un champ opératoire

Publication
EP 1568938 A1 20050831 (DE)

Application
EP 04018642 A 20040806

Priority
• EP 04018642 A 20040806
• EP 04004602 A 20040228

Abstract (en)
The lighting system is composed of a number of modules [6a] having a hexagonal shape that are combined to form a dish shape. Each module has a large number of light emitting diodes, LEDE, arranged as groups of red, green and blue elements [10] and each have a lens [11]. The LED elements are coupled to a regulator [15] that varies the colour temperature and level during dimming to maintain a uniform output.

Abstract (de)
Eine Operationsleuchte (1) weist mindestens ein weißes und mehrere farbige Leuchtmittel zur Ausleuchtung der Operationsstelle auf. Es sind Mittel zur Dimmung des Lichtstroms und eine Regeleinrichtung zur Regelung einer konstanten Farbtemperatur oder einer konstanten Farbwiedergabe während der Dimmung vorgesehen. Bei der Dimmung der Operationsleuchte durch eine Farbtemperaturänderung und der Farbwiedergabeänderung auftretende Nachteile werden vermieden. <IMAGE>

IPC 1-7
F21S 8/00

IPC 8 full level
A61B 19/00 (2006.01); **F21S 2/00** (2006.01); **F21S 8/00** (2006.01); **F21W 131/205** (2006.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)
H05B 45/20 (2020.01 - EP US); **F21V 21/403** (2013.01 - EP US); **F21W 2131/205** (2013.01 - EP US); **F21Y 2113/13** (2016.07 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)
• [A] US 4196460 A 19800401 - SCHRECKENDGUST JAY G [US]
• [A] WO 03019072 A1 20030306 - OKUMURA YUKIYASU [JP]
• [A] US 2003165055 A1 20030904 - SCHOLZ MANFRED [DE]

Cited by
DE102006040393B4; EP2215987A1; EP2169965A1; RU188259U1; DE102007048115A1; DE102008039791A1; DE102008039791B4; CH701854A1; EA034252B1; US8430815B2; WO2009043326A1; US8454197B2; US8134309B2; EP2065634A1; FR2924199A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1568938 A1 20050831; **EP 1568938 B1 20060927**; CN 100473892 C 20090401; CN 1661273 A 20050831; JP 2005237973 A 20050908; JP 5048927 B2 20121017; US 2005231945 A1 20051020; US 7614763 B2 20091110

DOCDB simple family (application)
EP 04018642 A 20040806; CN 200510052437 A 20050228; JP 2005054108 A 20050228; US 6758005 A 20050228