

Title (en)
Spectrum for mesopic vision

Title (de)
Spektrum für Kurzsichtigkeit

Title (fr)
Spectre pour vision mésopique

Publication
EP 2469983 A3 20150121 (EN)

Application
EP 11193962 A 20111216

Priority
• DE 102010063830 A 20101222
• DE 102011005689 A 20110317

Abstract (en)
[origin: EP2469983A2] The present invention proposes a lighting arrangement comprising a supporting element (2) having at least one blue LED light source (3a) being at least partially covered with colour conversion layer (5a) and designed to emit a light of at least a first wavelength region, and at least one red LED based light source (3b) being designed to emit light of at least a second wavelength region, said blue and red LED light sources (3a,3b) being adapted to mimic a predefined mesopic spectrum, the spectrum having a first intensity peak (11) at a wavelength of 440 to 480nm and a second intensity peak (12) at a wavelength of 600 to 650nm.

IPC 8 full level
H05B 44/00 (2022.01)

CPC (source: EP US)
H05B 45/20 (2020.01 - EP US)

Citation (search report)
• [A] US 2008080178 A1 20080403 - KITA YASUSHI [JP], et al
• [A] US 5015924 A 19910514 - BERMAN SAMUEL M [US], et al

Cited by
WO2015034350A1; NL2011375C2; CN105723146A; WO2020259094A1; US10161572B2

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)
EP 2469983 A2 20120627; EP 2469983 A3 20150121; EP 2469983 B1 20160309; DE 102011005689 A1 20120628

DOCDB simple family (application)
EP 11193962 A 20111216; DE 102011005689 A 20110317