

Title (en)
ENHANCED COLOR-PREFERENCE LED LIGHT SOURCES USING YAG, NITRIDE, AND PFS PHOSPHORS

Title (de)
LED-LICHTQUELLEN MIT VERBESSERTER FARBPRAEFERENZ MITTELS YAG, NITRID UND PFS-PHOSPHOREN

Title (fr)
SOURCES DE LUMIERE A LED A PREFERENCE DE COULEUR AMELIOREE UTILISANT DES PHOSPHORES YAG ET PFS ET DU NITRURE DE PHOSPHORE

Publication
EP 3194530 A1 20170726 (EN)

Application
EP 15706560 A 20150121

Priority
• US 2014054868 W 20140909
• US 2015012240 W 20150121

Abstract (en)
[origin: WO2016039799A1] Aspects of the present disclosure are directed to a composite light source which includes at least one blue light source having peak wavelength in the range of about 400 nm to about 460 nm; at least one yellow-green garnet phosphor; and at least one narrow-band red-emitting down-converter. Such composite light source may have a Lighting Preference Index (LPI) of at least 120. In other aspects the disclosure is directed to composite light source comprising at least one blue light source having peak wavelength in the range of about 400 nm to about 460 nm; at least one yellow-green garnet phosphor; and at least one broad red down-converter. In this latter aspect the composite light source may have a Lighting Preference Index (LPI) of at least 120. Numerous other aspects are provided.

IPC 8 full level
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CPC (source: EP US)
C09K 11/617 (2013.01 - EP); **C09K 11/7774** (2013.01 - EP US); **H05B 33/14** (2013.01 - EP)

Citation (search report)
See references of WO 2016039799A1

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