

(54) Title of the invention : LUMINAIRE

(51) International classification :G02B6/00,F21V8/00,F21S8/02
 (31) Priority Document No :11169225.7
 (32) Priority Date :09/06/2011
 (33) Name of priority country :EPO
 (86) International Application No :PCT/IB2012/052654
 Filing Date :28/05/2012
 (87) International Publication No :WO 2012/168822
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :

1)KONINKLIJKE PHILIPS N.V.Address of Applicant :High Tech Campus 5 NL 5656 AE
Eindhoven Netherlands

(72)Name of Inventor :

1)DE ZWART Siebe Tjerk**2)VAN GHELUWE Jochen Renaat****3)MICHELIS Wilhelmus Petrus Adrianus Johannus****4)VAN BAARDWIJK Menno****5)PIJLMAN Fetze****6)DE HAAS Cornelis Gerardus Maria**

(57) Abstract :

The invention relates to a luminaire that enables the use of more sparsely distributed light sources having a uniform fixture surface brightness and good color mixing. The luminaire comprises first and second light guide layers (10 11) optically coupled together by at least one optical coupler (12a 12b) which allows the passage of light from the first (10) to the second light guide layer (11). The luminaire also comprises a plurality of light sources (16a 16b) each of which being arranged such that light emitted by the light source (16a 16b) is coupled into the first light guide layer (10) at an interface surface (17) arranged substantially perpendicularly to a longitudinal axis of the first light guide layer (10). The luminaire further comprises a scattering element (14) adapted to cause light to be emitted from an emitting surface of the second light guide layer (11). By providing two optically coupled light guide layers (10 11) one for receiving light emitted by the light sources (16a 16b) and the other for emission greater opportunity for dispersion and color mixing of the light is provided.

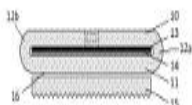


Figure 3a

No. of Pages : 33 No. of Claims : 15