

Title (en)  
Lighting apparatus with interchangeable modules

Title (de)  
Beleuchtungsanordnung mit austauschbaren Modulen

Title (fr)  
Appareil d'éclairage avec modules interchangeables

Publication  
**EP 2385294 B1 20201021 (EN)**

Application  
**EP 11164604 A 20110503**

Priority  
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Abstract (en)  
[origin: EP2385294A2] Disclosed is a lighting apparatus, and more particularly, a lighting apparatus with interchangeable modules that can obtain a desired distribution of luminous intensity by interchanging and combining a plurality of modularized light sources. A lighting apparatus with interchangeable modules according to an aspect of the invention provides a lighting apparatus including: a frame; and at least two light source modules detachably coupled to the frame, wherein the light source modules are interchangeable. Furthermore, the at least two light source modules may be selected from a first light source module emitting light at a large radiation angle and a second light source module emitting light at a small radiation angle.

IPC 8 full level  
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Citation (examination)  
US 2008273327 A1 20081106 - WILCOX KURT S [US], et al

Cited by  
CN104676328A; EP2600054A1; CN102705734A; US10180248B2; JP2015181133A; EP3051212A1; DE102016115035A1

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