

Title (en)

COMPACT OPTICAL SYSTEM WITH TURN AND COLOR MIXING

Title (de)

Kompaktes optisches System mit Umlenkung und Farbenmischung

Title (fr)

SYSTEME OPTIQUE COMPACT A COURBURE ET A MELANGE DES COULEURS

Publication

**EP 1073922 A4 20010516 (EN)**

Application

**EP 99973719 A 19990224**

Priority

US 9904023 W 19990224

Abstract (en)

[origin: WO0050940A1] A compact optical assembly includes a tight bend region (50) that effectively propagates light from a source (30) to an end use while maximizing beam lumens, improving color mixing, and minimizing complexity. A first nonimaging optical component (60) increases the angular distribution of light from the source (30) to an input end (60b) of the bend region (50) having a light fiber (64) with a first cross-sectional dimension. A second nonimaging optical component (62) receives light from the bend region (50) and decreases the angular distribution. A light conductor that interconnects the light source (30) to the first nonimaging optical component (60) has a cross-sectional dimension in the plane of the bend region (50) greater than that of the light fiber (64) and, likewise, a second conductor receiving light from the second nonimaging optical component (62) has a cross-sectional dimension in the plane of the bend region (50) greater than the light fiber (64).

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IPC 8 full level

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Citation (search report)

- No further relevant documents disclosed
- See references of WO 0050940A1

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