

Title (en)

SEGMENTED REFLECTOR FOR COUPLING AN EXTENDED ILLUMINATION SOURCE TO N FIBER ELEMENTS

Title (de)

SEGMENTIERTER REFLEKTOR ZUR KOPPELUNG EINER LÄNGLICHEN LICHTQUELLE AN N LICHTLEITER

Title (fr)

REFLECTEUR EN SECTEURS PERMETTANT DE COUPLER UNE SOURCE ETENDUE D'ECLAIRAGE A N ELEMENTS DE FIBRES

Publication

**EP 1023557 A4 20001108 (EN)**

Application

**EP 99905557 A 19990129**

Priority

- US 9902002 W 19990129
- US 7330798 P 19980129

Abstract (en)

[origin: WO9939134A1] An optical fiber illumination system comprises a segmented reflector that efficiently couples energy from a lamp into a plurality of optical fibers. The segmented reflector offers the ability to improve the coupling efficiency by utilizing the cross-sectional area and numerical aperture of more than one optical fiber at the output of a reflector. Also this reduces the energy collected by a single fiber, and can be useful in preventing damage created by the source intensity. In practice, a source lamp (12) is placed along a reflector axis (16). The reflector (14) is specifically designed for a particular style and type of lamp, and is designed to collect as many rays from that lamp as possible.

IPC 1-7

**F21V 8/00**

IPC 8 full level

**F21V 8/00** (2006.01); **G02B 6/42** (2006.01)

CPC (source: EP)

**G02B 6/0006** (2013.01); **G02B 6/4298** (2013.01)

Citation (search report)

- [XAY] WO 9622555 A1 19960725 - REMOTE SOURCE LIGHTING INT INC [US]
- [YA] US 5317484 A 19940531 - DAVENPORT JOHN M [US], et al
- See references of WO 9939134A1

Designated contracting state (EPC)

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