Title (en)

SEGMENTED REFLECTOR FOR COUPLING AN EXTENDED ILLUMINATION SOURCE TO A PLURALITY OF FIBRE ELEMENTS

Title (de)

SEGMENTIERTER REFLEKTOR ZUR KOPPELUNG EINER LÄNGLICHEN LICHTQUELLE AN MEHRERE LICHTLEITER

Title (fr)

REFLECTEUR EN SECTEURS PERMETTANT DE COUPLER UNE SOURCE ETENDUE D'ECLAIRAGE À PLUSIEURS ÉLÉMENTS DE FIBRES

Publication

EP 1023557 A1 20000802 (EN)

Application

EP 99905557 A 19990129

Priority

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- 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.

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F21V 7/04

IPC 8 full level

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

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