

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

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Application

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Priority

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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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