

Title (en)

IMPROVED COUPLING OF LIGHT FROM A SMALL ARC LAMP TO A LARGER TARGET

Title (de)

VERBESSERTE KOPPLUNG DES LICHTS EINER KLEINEN BOGENLAMPE IN EIN GRÖßERES OPTISCHES ELEMENT

Title (fr)

COUPLAGE AMELIORE DE LUMIERE A PARTIR D'UNE LAMPE A PETIT ARC VERS UNE CIBLE PLUS GRANDE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO0067057A1] A light guide (8) is used to couple as much light as possible from an imaging source (1) having a large numerical aperture into a fiber optic component (7) with a relatively smaller numerical aperture. A tapered cladded rod, tapered fused bundle of optical fibers, tapered hollow reflective tube, CPC or negative lens when used as a light guide, provides for efficient coupling of light into a fiber optic component without loss of flux density. Such a system is especially advantageous when used with an imaging source that produces a very small image spot size with high numerical aperture, such as one producing a 1:1 image like a spherical off-axis reflector.

IPC 1-7

G02B 6/42; **F21V 8/00**

IPC 8 full level

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CPC (source: EP KR)

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See references of WO 0067057A1

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