

Title (en)  
OPTICAL COUPLING SYSTEM AND A METHOD FOR MANUFACTURING IT

Title (de)  
OPTISCHES KOPPELSYSTEM UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)  
SYSTEME DE LIAISON OPTIQUE ET PROCEDE DE FABRICATION ASSOCIE

Publication  
**EP 1719007 A1 20061108 (EN)**

Application  
**EP 05708180 A 20050215**

Priority  
• FI 2005000100 W 20050215  
• FI 20045041 A 20040216

Abstract (en)  
[origin: WO2005078492A1] The invention relates to a novel two dimensional optical structures for combining the outputs of a plurality of light sources. These structures combine the output of multiple light sources through any one or combination of spatial, polarization, and wavelength multiplexing in a monolithic optical element. The construction of these elements is such that they can be mass produced utilizing traditional glass fiber fabrication techniques resulting in small per unit cost. Furthermore, these optical structures can be employed in the construction very efficient and inexpensive systems for collecting and concentrating the light output of laser diode bars and other light sources.

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CPC (source: EP)  
**G02B 6/4206** (2013.01)

Citation (search report)  
See references of WO 2005078492A1

Citation (examination)  
• EP 1376179 A2 20040102 - TOYODA MACHINE WORKS LTD [JP]  
• WO 9014316 A1 19901129 - NAT RES DEV [GB]

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