

Title (en)
INTEGRATION OF ARRAY OF NON-ROD SHAPED OPTICAL ELEMENTS WITH ARRAY OF OPTICAL FIBERS

Title (de)
INTEGRATION EINER MATRIX NICHTSTABFÖRMIGER OPTISCHER ELEMENTE MIT EINER LICHTLEITFASERMATRIX

Title (fr)
INTEGRATION DE RESEAU D'ELEMENTS OPTIQUES DE FORME NON LINEAIRE AVEC UN RESEAU DE FIBRES DANS UNE STRUCTURE ET PROCEDE S'Y RAPPORTANT

Publication
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Application
EP 00990906 A 20001106

Priority
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• US 16357499 P 19991105

Abstract (en)
[origin: WO0133262A2] Arrays of non-rod shaped optical elements may be integrated with fiber arrays arranged in a positioning structure. The use of non-rod shaped optical elements allow the elements to be lithographically created already accurately aligned relative to one another. This also allows for simultaneous alignment of the array of optical elements with the array of fibers. The arrays may be one or two dimensional. The support structure for the fibers may be any desired structure. The fiber endfaces may be angled. The array of optical elements may include more than one substrate bonded together. Passive alignment features, including visual alignment mark and/or mechanical mating features, may be provided on the arrays.
[origin: WO0133262A2] Arrays (100) of non-rod shaped optical elements (104) may be integrated with fiber arrays (108) arranged in a positioning structure (110, 114). The use of non-rod shaped optical elements allow the elements to be lithographically created already accurately aligned relative to one another. This also allows for simultaneous alignment of the array of optical elements with the array of fibers. The arrays may be one or two dimensional. The support structure for the fibers may be any desired structure. The fiber endfaces may be angled. The array of optical elements may include more than one substrate bonded together. Passive alignment features, including visual alignment mark and/or mechanical mating features, may be provided on the arrays.

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