

Title (en)

MICROLENS ARRAYS HAVING HIGH FOCUSING EFFICIENCY

Title (de)

MIKROLINSENMATRIX MIT HOHER FOKUSSIERUNGSEFFIZIENZ

Title (fr)

MOSAIQUE DE MICROLENTILLES PRESENTANT UN RENDEMENT FOCAL ELEVE

Publication

EP 1218777 A4 20051228 (EN)

Application

EP 01962321 A 20010730

Priority

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Abstract (en)

[origin: WO0210805A1] Microlens arrays (105) having high focusing efficiencies are provided. The high focusing efficiencies are achieved by accurately producing the individual microlenses making up the array at high fill factors. Arrays of positive microlenses are produced by forming a master having a concave surface-relief pattern (101) in a positive photoresist (21) using direct laser writing. Through this approach, the problems associated with the convolution of a finite laser beam with a desired profile for a microlens are overcome. The microlens arrays of the invention have focusing efficiencies of at least 75%.

IPC 1-7

G02B 5/04; **G02F 1/13**

IPC 8 full level

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CPC (source: EP KR)

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Citation (search report)

- No further relevant documents disclosed
- See references of WO 0210805A1

Cited by

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DOCDB simple family (publication)

WO 0210805 A1 20020207; AU 8351401 A 20020213; CN 1200304 C 20050504; CN 1386204 A 20021218; EP 1218777 A1 20020703; EP 1218777 A4 20051228; JP 2004505307 A 20040219; KR 100878966 B1 20090119; KR 20020044154 A 20020614; TW 200502586 A 20050116; TW I238266 B 20050821; TW I241415 B 20051011

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