

Title (en)

OPTICAL REFLECTOR ARRAYS AND APPARATUS USING SUCH ARRAYS.

Title (de)

OPTISCHE REFLEKTORANORDNUNGEN UND SOLCHE ANORDNUNGEN VERWENDETES GERAET.

Title (fr)

GROUPEMENTS DE REFLECTEURS OPTIQUES ET APPAREIL LES UTILISANT.

Publication

EP 0663077 A4 19951129 (EN)

Application

EP 93918799 A 19930906

Priority

- AU 9300453 W 19930906
- AU PL457592 A 19920904
- AU PL777593 A 19930312

Abstract (en)

[origin: WO9406046A1] An energy directing device, for use with all forms of energy having a wave-like propagation mode, consists of an array of reflecting elements. The reflecting elements are either planar reflecting strips (12, 52, 92) or channels (32) with an internal surface (or internal surfaces) which is (are) reflecting. A surface called the "surface of curvature" of the array - which may differ from the envelope of corresponding points on the elements of the array - is orthogonal to the plane of each reflecting strip, or to the axis of each internally reflecting channel. The arrays may be used to concentrate, to deflect, or to otherwise direct incident radiation. Applications of the invention include solar radiation concentrators, light wells for buildings, beam splitters, and ultrasonic lenses.

IPC 1-7

G02B 17/00; G02B 5/08; F24J 2/16; F21V 7/05; E04D 13/03; G10K 11/28; H01L 31/052

IPC 8 full level

E04B 9/32 (2006.01); **E04D 13/03** (2006.01); **F21S 11/00** (2006.01); **F21V 7/00** (2006.01); **F24J 2/34** (2006.01); **F24S 10/70** (2018.01); **F24S 23/77** (2018.01); **F24S 23/79** (2018.01); **G02B 17/06** (2006.01); **G10K 11/28** (2006.01); **H01L 31/052** (2006.01)

CPC (source: EP US)

E04B 9/32 (2013.01 - EP); **E04D 13/033** (2013.01 - EP); **F21S 11/00** (2013.01 - EP); **F21V 7/00** (2013.01 - EP); **F24S 10/72** (2018.04 - EP); **F24S 23/00** (2018.04 - EP US); **F24S 23/77** (2018.04 - EP); **F24S 23/79** (2018.04 - EP); **F24S 50/20** (2018.04 - EP US); **F24S 60/30** (2018.04 - EP US); **G02B 17/006** (2013.01 - EP); **G02B 19/0019** (2013.01 - EP); **G02B 19/0033** (2013.01 - EP US); **G02B 19/0042** (2013.01 - EP); **G10K 11/28** (2013.01 - EP); **H01L 31/0547** (2014.12 - EP); **E04D 2013/0345** (2013.01 - EP); **F24S 2023/878** (2018.04 - EP); **Y02B 10/10** (2013.01 - EP); **Y02B 10/20** (2013.01 - EP); **Y02E 10/44** (2013.01 - EP); **Y02E 10/47** (2013.01 - EP); **Y02E 10/52** (2013.01 - EP)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 9406046A1

Designated contracting state (EPC)

DE DK FR GB SE

DOCDB simple family (publication)

WO 9406046 A1 19940317; EP 0663077 A1 19950719; EP 0663077 A4 19951129

DOCDB simple family (application)

AU 9300453 W 19930906; EP 93918799 A 19930906