

Title (en)
A MIRROR BLANK.

Title (de)
SPIEGELROHLING.

Title (fr)
EBAUCHE DE MIROIR.

Publication
EP 0071605 A1 19830216 (EN)

Application
EP 81902946 A 19811021

Priority
SE 8007420 A 19801022

Abstract (en)
[origin: WO8201421A1] A mirror blank including a shell (1) of glass or ceramics, the shape of which substantially corresponds to that of the finished mirror, and a support structure which forms a three-dimensional network which is fastened to the shell and fills the latter. The novelty of the invention consists in the support structure including fibres (3) of a material the coefficient of thermal expansion of which is adapted to that of the shell and a binder which firmly connects the fibres with each other and with the shell. By using fibres the coefficient of thermal expansion of which is greater than that of the shell the mirror blank may have an initial stress imparted to it.

Abstract (fr)
Ebauche de miroir comprenant une coquille (1) en verre ou ceramique, dont la forme correspond sensiblement a celle du miroir fini, et une structure de support formant un reseau tridimensionnel fixee a la coquille et remplissant celle-ci. La nouveaute de l'invention consiste en ce que la structure de support comprend des fibres (3) d'un materiau dont le coefficient de dilatation thermique est adapte a celui de la coquille, ainsi qu'un liant qui relie solidement les fibres entre elles et a la coquille. En utilisant des fibres dont le coefficient de dilatation thermique est superieur a celui de la coquille on peut conferer une precontrainte a l'ebauche de miroir.

IPC 1-7
G02B 1/00; **G02B 5/08**; **C03C 14/00**

IPC 8 full level
C03C 14/00 (2006.01); **C03C 17/06** (2006.01); **C03C 27/06** (2006.01); **G02B 5/08** (2006.01)

CPC (source: EP)
G02B 5/08 (2013.01)

Designated contracting state (EPC)
AT CH DE FR GB LI LU NL SE

DOCDB simple family (publication)
WO 8201421 A1 19820429; EP 0071605 A1 19830216; JP S57501894 A 19821021; SE 8007420 L 19820423

DOCDB simple family (application)
SE 8100312 W 19811021; EP 81902946 A 19811021; JP 50335581 A 19811021; SE 8007420 A 19801022