

Title (en)  
WAVEGUIDE COMPRISING A CHANNEL ON AN OPTICAL SUBSTRATE

Title (de)  
WELLENLEITER MIT EINEM KANAL IN EINEM OPTISCHEN SUBSTRAT

Title (fr)  
GUIDE D'ONDE COMPORTANT UN CANAL DANS UN SUBSTRAT OPTIQUE

Publication  
**EP 1342112 A2 20030910 (FR)**

Application  
**EP 01270789 A 20011214**

Priority  
• FR 0104014 W 20011214  
• FR 0016549 A 20001215

Abstract (en)  
[origin: WO0248747A2] The invention concerns a waveguide comprising a channel (12) on an optical substrate (11), the refractive index of said channel being higher than that of the substrate. Said waveguide comprises at least a guide layer (13) provided on the channel, the index of said guide layer being higher than that of the substrate. In addition, the channel (12) is integrated in the substrate (11). Advantageously, the guide further comprises a covering layer (14) arranged on the guide layer (13), the index of said covering layer being less than that of the guide layer and that of the channel. The invention also concerns a method for making said waveguide.

IPC 1-7  
**G02B 6/134**

IPC 8 full level  
**G02B 6/122** (2006.01); **G02B 6/13** (2006.01); **G02B 6/134** (2006.01); **G02B 6/12** (2006.01)

CPC (source: EP US)  
**G02B 6/122** (2013.01 - EP US); **G02B 6/1347** (2013.01 - EP US); **G02B 2006/121** (2013.01 - EP US)

Citation (search report)  
See references of WO 0248747A2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 0248747 A2 20020620**; **WO 0248747 A3 20020822**; **WO 0248747 A8 20030109**; **WO 0248747 A8 20030206**; AU 1931502 A 20020624; CA 2431797 A1 20020620; CA 2431797 C 20110614; CN 1486440 A 20040331; EP 1342112 A2 20030910; FR 2818390 A1 20020621; FR 2818390 B1 20031107; JP 2004515815 A 20040527; US 2004071428 A1 20040415; US 7756377 B2 20100713

DOCDB simple family (application)  
**FR 0104014 W 20011214**; AU 1931502 A 20011214; CA 2431797 A 20011214; CN 01822152 A 20011214; EP 01270789 A 20011214; FR 0016549 A 20001215; JP 2002549999 A 20011214; US 45067103 A 20031128