

Title (en)  
A method of forming a photonic crystal

Title (de)  
Verfahren zur Bildung eines photonisches Kristalls

Title (fr)  
Methode de formation d'un cristal photonique

Publication  
**EP 1214614 A1 20020619 (EN)**

Application  
**EP 00960859 A 20000920**

Priority  
• GB 0003603 W 20000920  
• GB 9922196 A 19990920

Abstract (en)  
[origin: WO0122133A1] A method of forming a photonic crystal material is disclosed comprising exposing a photosensitive material to an interference pattern of electromagnetic radiation whereby the exposure through the material varies in accordance with the spatially varying intensity created by the interference to produce a three dimensional periodic variation in the refractive index of the photosensitive material based on the exposure, the photosensitive material possessing an average number of crosslinkable groups per molecule of at least 3, with an equivalent weight per crosslinkable group of at most 1000, e.g. a glycidyl ether of bisphenol A novolac resin, preferably a SU-8 negative photoresist.

IPC 1-7  
**G02B 6/12**; C08L 63/00

IPC 8 full level  
**G02B 6/12** (2006.01); **C08G 59/68** (2006.01); **G02B 6/122** (2006.01); **G02B 6/13** (2006.01); **G03F 7/00** (2006.01); **G03F 7/038** (2006.01)

CPC (source: EP)  
**B82Y 20/00** (2013.01); **G02B 6/1225** (2013.01); **G03F 7/001** (2013.01); **G03F 7/038** (2013.01)

Citation (search report)  
See references of WO 0122133A1

Citation (examination)  
SENSORS AND ACTUATORS, vol. A64, 1998, pages 33 - 39

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

DOCDB simple family (publication)  
**WO 0122133 A1 20010329**; AU 7302500 A 20010424; EP 1214614 A1 20020619; GB 9922196 D0 19991117; JP 2003510630 A 20030318

DOCDB simple family (application)  
**GB 0003603 W 20000920**; AU 7302500 A 20000920; EP 00960859 A 20000920; GB 9922196 A 19990920; JP 2001525446 A 20000920