

Title (en)  
SURFACE WARP RESISTANT OPTICAL DEVICES

Title (de)  
GEGENÜBER OBERFLÄCHENVERZERRUNG BESTÄNDIGE OPTISCHE ANORDNUNGEN

Title (fr)  
DISPOSITIFS OPTIQUES RÉSISTANTS AU GAUCHISSEMENT EN SURFACE

Publication  
**EP 2076804 A4 20130710 (EN)**

Application  
**EP 07843851 A 20071004**

Priority  

- US 2007080461 W 20071004
- US 82816606 P 20061004
- US 97307007 P 20070917
- US 86468707 A 20070928

Abstract (en)  
[origin: WO2008043028A2] In at least one example, an optical component includes a central optical surface proximate an optical axis, a peripheral portion extending radially from the central optical surface, and a stepped portion between the central optical surface and the peripheral portion. The stepped portion may be formed to raise the central optical surface above the peripheral portion.

IPC 8 full level  
**G02B 6/34** (2006.01); **G02B 6/42** (2006.01)

CPC (source: EP)  
**G02B 6/4204** (2013.01); **G02B 6/4207** (2013.01)

Citation (search report)  

- [X] US 2003147602 A1 20030807 - TAKADA KOJI [JP]
- [XYI] JP 2004361583 A 20041224 - MATSUSHITA ELECTRIC IND CO LTD
- [Y] US 2001004414 A1 20010621 - KUHN GERHARD [DE], et al
- [E] EP 1998198 A2 20081203 - ALPS ELECTRIC CO LTD [JP]
- See references of WO 2008043028A2

Citation (examination)  

- EP 1722258 A1 20061115 - ST MICROELECTRONICS SRL [IT]
- US 2006263015 A1 20061123 - FINCATO ANTONIO [IT], et al

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2008043028 A2 20080410; WO 2008043028 A3 20081120; WO 2008043028 A9 20080522**; CN 101535854 A 20090916;  
CN 101535854 B 20121031; EP 2076804 A2 20090708; EP 2076804 A4 20130710; TW 200821647 A 20080516

DOCDB simple family (application)  
**US 2007080461 W 20071004**; CN 200780035805 A 20071004; EP 07843851 A 20071004; TW 96137161 A 20071003