

Title (en)  
OPTICAL SWITCHES AND LOGIC GATES EMPLOYING SAME

Title (de)  
OPTISCHE SCHALTER UND DIESE VERWENDENDE LOGIKGATTER

Title (fr)  
COMMUTATEURS OPTIQUES ET PORTES LOGIQUES UTILISANT CEUX-CI

Publication  
**EP 2137563 A4 20120711 (EN)**

Application  
**EP 08738196 A 20080410**

Priority

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- US 73474707 A 20070412
- US 73475007 A 20070412
- US 91146907 P 20070412

Abstract (en)  
[origin: WO2008126080A2] An optical switch including a light passageway having a changeable cross-sectional area, an activation light responsive piezoelectric element associated with the light passageway, the activation light responsive piezoelectric element being operative to change its shape in response to activation light impinging thereon and a conductive element operatively associated with the piezoelectric element for enhancing activation light responsiveness thereof, the activation light responsive piezoelectric element being associated with the light passageway and being operative such that changes in the shape of the piezoelectric element cause changes in the changeable cross-sectional area of the light passageway sufficient to govern the passage of light along the light passageway. Logic gates and logic functionality employing an optical switch are also described.

IPC 8 full level  
**G02B 6/35** (2006.01); **G02F 1/01** (2006.01); **G02F 3/00** (2006.01)

CPC (source: EP KR)  
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Citation (search report)

- [A] US 4524294 A 19850618 - BRODY PHILIP S [US]
- [A] FR 2504285 A1 19821022 - CHEVRON RES [US]
- See references of WO 2008126080A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
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