

Title (en)

AN OPTICAL ROUTER INCLUDING BISTABLE OPTICAL SWITCH AND METHOD THEREOF

Title (de)

OPTISCHER VERZWEIGER MIT BISTABLEM OPTISCHEN SCHALTER UND ZUGEHÖRIGES VERFAHREN

Title (fr)

ROUTEUR OPTIQUE COMPRENANT UN COMMUTATEUR OPTIQUE BISTABLE ET PROCEDE ASSOCIE

Publication

EP 1250620 A2 20021023 (EN)

Application

EP 01918153 A 20010103

Priority

- US 0100122 W 20010103
- US 17416400 P 20000103

Abstract (en)

[origin: WO0150172A2] A bistable optical micro-switch (110) controls the routing of an optical beam. The micro-switch (110) has at least one optical micro-element, which is stable through electrical power interrupts, for directing the optical beam. A change in the state of the optical micro-element is effected by a vertical micro-actuator (221, 222, 223, 224), which is biased by a micro-spring (225). A micro-latch (350) can be used to keep the tensed micro-spring (225) from un-tensing when electrical power is interrupted. A micro-latch (350) holds the micro-element in at least one mechanically tensed, stable state.

IPC 1-7

G02B 26/02

IPC 8 full level

G02B 26/08 (2006.01); **H04B 10/00** (2013.01); **H04B 10/27** (2013.01)

CPC (source: EP)

G02B 26/08 (2013.01)

Citation (search report)

See references of WO 0150172A2

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 0150172 A2 20010712; **WO 0150172 A3 20020404**; **WO 0150172 A9 20021031**; **WO 0150172 B1 20020516**; EP 1250620 A2 20021023; JP 2003530583 A 20031014; JP 4405705 B2 20100127

DOCDB simple family (application)

US 0100122 W 20010103; EP 01918153 A 20010103; JP 2001550066 A 20010103