

Title (en)
MIRROR BASED FIBER OPTIC SWITCH AND CONTROL SYSTEM

Title (de)
FASEROPTISCHER SCHALTER MIT SPIEGEL UND KONTROLSYSTEM

Title (fr)
COMMUTATEUR A FIBRE OPTIQUE A MIROIR ET SON SYSTEME DE COMMANDE

Publication
EP 1110114 A1 20010627 (EN)

Application
EP 99951364 A 19990603

Priority

- US 9912334 W 19990603
- US 9240098 A 19980605
- US 9239398 A 19980605
- US 9209998 A 19980605

Abstract (en)
[origin: WO9967666A1] A fiber optical control system for use in an optical switch comprising a fiber assembly (86), a signal separator (88), a sensor unit (90), a lens assembly (92), stationary mirror (94), targeting RED (96), moveable mirror assembly (98) with mounted alignment REDs (100), window (102) and a processor (104). The separator (88) separates the control signals from the communication signals so that the control signals are received by the sensor unit (90) and the communication signals are received by fiber (106). The control signals received by the sensor unit (90) provide target identification and alignment information for connecting target fibers. The assembly (98) is used to actuate both targeting and alignment adjustments. The mirror surface (132) of the moveable mirror assembly move in response to commands from processor (104) to allow for adjustment of the optical path of the communication and control signals received through window (102) in two dimensions relative to the fiber (106) and sensor unit (90).

IPC 1-7
G02B 6/26; **G02B 6/35**

IPC 8 full level
G02B 26/08 (2006.01); **G02B 6/26** (2006.01); **G02B 6/35** (2006.01); **H04Q 11/00** (2006.01); **G02B 6/32** (2006.01); **G02B 6/38** (2006.01); **G02B 6/42** (2006.01)

CPC (source: EP)
G02B 6/262 (2013.01); **G02B 6/359** (2013.01); **H04Q 11/0005** (2013.01); **G02B 6/32** (2013.01); **G02B 6/3512** (2013.01); **G02B 6/3556** (2013.01); **G02B 6/3803** (2013.01); **G02B 6/4204** (2013.01); **G02B 6/4225** (2013.01); **H04Q 2011/0026** (2013.01); **H04Q 2011/0039** (2013.01); **H04Q 2011/0041** (2013.01); **H04Q 2011/0043** (2013.01); **H04Q 2011/0049** (2013.01); **H04Q 2011/0073** (2013.01); **H04Q 2011/0083** (2013.01)

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 9967666 A1 19991229; AU 6381599 A 20000110; BR 9910904 A 20010213; CA 2334279 A1 19991229; CN 1306630 A 20010801; EP 1110114 A1 20010627; EP 1110114 A4 20050316; JP 2002519710 A 20020702; MX PA00012022 A 20030422; NZ 508624 A 20030829

DOCDB simple family (application)
US 9912334 W 19990603; AU 6381599 A 19990603; BR 9910904 A 19990603; CA 2334279 A 19990603; CN 99807786 A 19990603; EP 99951364 A 19990603; JP 2000556266 A 19990603; MX PA00012022 A 19990603; NZ 50862499 A 19990603