

Title (en)

OPTICAL CIRCUIT FOR OBTAINING A MONITOR SIGNAL

Title (de)

OPTISCHE SCHALTUNG ZUR GEWINNUNG EINES ÜBERWACHUNGSSIGNALS

Title (fr)

CIRCUIT OPTIQUE DESTINE A OBTENIR UN SIGNAL DE SURVEILLANCE

Publication

**EP 1053647 A1 20001122 (EN)**

Application

**EP 99907396 A 19990121**

Priority

- EP 9900386 W 19990121
- NL 1008206 A 19980205

Abstract (en)

[origin: WO9940738A1] An optical circuit for obtaining a monitor signal (M2) for the monitoring of an optical switch (1) with input gate (1.3) and two output gates (1.1, 1.2) comprises first and second optical coupling-out means (2, 3) for coupling out first and second coupled-out signals with power levels which are fractions of the power of optical signals (O1, O2) exiting at the two output gates of the switch. The coupled-out signals are combined in optical combination means (40) into a single optical monitor signal (M1) and emitted at an output gate (50) to detection means (5) for power measurement. By a suitable choice of either the coupling-out fractions of the first and second coupling-out means, or of an asymmetry in the combination means, or both, different power fractions of possibly exiting signals (O1, O2) are present in the monitor signal. By power measurement, at least four switching states are unambiguously distinguishable.

IPC 1-7

**H04Q 3/52**; **H04Q 11/00**

IPC 8 full level

**H04Q 3/52** (2006.01); **H04Q 11/00** (2006.01)

CPC (source: EP)

**H04Q 11/0003** (2013.01); **H04Q 2011/0007** (2013.01); **H04Q 2011/0043** (2013.01); **H04Q 2011/0049** (2013.01); **H04Q 2011/0083** (2013.01)

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)

**WO 9940738 A1 19990812**; AU 2718299 A 19990823; AU 745931 B2 20020411; CA 2320284 A1 19990812; EP 1053647 A1 20001122; HU P0100982 A2 20010730; NL 1008206 C2 19990806

DOCDB simple family (application)

**EP 9900386 W 19990121**; AU 2718299 A 19990121; CA 2320284 A 19990121; EP 99907396 A 19990121; HU P0100982 A 19990121; NL 1008206 A 19980205