

Title (en)

OPTO-ELECTRONIC MODULE FOR BI-DIRECTIONAL OPTICAL DATA TRANSMISSION

Title (de)

OPTOELEKRONISCHES MODUL ZUR BIDIREKTIONALEN OPTISCHEN DATENÜBERTRAGUNG

Title (fr)

MODULE OPTOELECTRONIQUE POUR TRANSFERT DE DONNEES BIDIRECTIONNEL PAR VOIE OPTIQUE

Publication

**EP 0931357 A1 19990728 (DE)**

Application

**EP 97912032 A 19970926**

Priority

- DE 9702224 W 19970926
- DE 19640421 A 19960930

Abstract (en)

[origin: DE19640421A1] The invention concerns an opto-electronic module for bi-directional optic data transmission having a shaped body (14) working as a beam-splitting device (4). Said body is essentially made of a material transparent to the emitted beam (7) and the picked-up beam (13) and has an embedded beam-splitting layer (10). An emitting component (2), a receiving component (3) and a beam-focusing element (8) are advantageously directly connected to the shaped body (14).

IPC 1-7

**H01L 33/00**; **G02B 6/42**

IPC 8 full level

**G02B 6/42** (2006.01); **H01L 31/0232** (2006.01); **H01L 31/12** (2006.01); **H01L 33/00** (2010.01); **H01L 33/58** (2010.01); **H01L 33/62** (2010.01); **H04B 10/40** (2013.01)

CPC (source: EP US)

**G02B 6/4246** (2013.01 - EP US); **H04B 10/40** (2013.01 - EP US)

Citation (search report)

See references of WO 9815017A1

Designated contracting state (EPC)

DE FI FR GB IT NL SE

DOCDB simple family (publication)

**DE 19640421 A1 19980423**; CN 1238858 A 19991215; EP 0931357 A1 19990728; JP 2001501378 A 20010130; TW 357493 B 19990501; US RE38280 E 20031021; WO 9815015 A1 19980409; WO 9815017 A1 19980409

DOCDB simple family (application)

**DE 19640421 A 19960930**; CN 97180139 A 19970926; DE 9702224 W 19970926; DE 9702249 W 19970930; EP 97912032 A 19970926; JP 51613698 A 19970926; TW 86113139 A 19970910; US 78534601 A 20010216