

Title (en)

MULTICHANNEL OPTICAL COUPLING SYSTEM

Title (de)

MEHRKANALIGE OPTISCHE KOPPELANORDNUNG

Title (fr)

SYSTEME DE COUPLAGE OPTIQUE A CANAUX MULTIPLES

Publication

EP 1247125 A2 20021009 (DE)

Application

EP 01909452 A 20010105

Priority

- DE 0100088 W 20010105
- DE 10001680 A 20000112

Abstract (en)

[origin: WO0155762A2] The invention relates to a coupling system comprised of an optical plug-in connector (1), of a coupling partner (60) and of a retaining element (20). The housing (3) of the plug-in connector is provided with a sliding key (5) and with two springy detent limbs (6) which comprise a detent nose (7) for engaging with the coupling partner (60). In order to receive the plug-in connector, the coupling partner is provided with a plug inlet (62) which has recesses (63) that correspond to the detent noses of the plug-in connector. The retaining element (20) is comprised of a laterally displaceable outer housing (23) and of an inner housing (24) that is pivotally arranged therein. A locking element (25) provided as a two-limb lever is arranged on the inner housing (24) and serves to lock the plug-in connector in the retaining element. When inserting the plug inlet, this locking is released once the plug-in connector and plug inlet are engaged with one another. The detent limbs of the plug-in connector also carry transversal members (8) which strike against inclined surfaces inside the inner housing (24) of the retaining element when disassembling the coupling system and thus disengage the locking between the plug-in connector and coupling partner. Before this, the active connection between the coupling partner and the locking element is released so that the locking element locks the plug-in connector in the retaining element once again.

IPC 1-7

G02B 6/38; G02B 6/42

IPC 8 full level

G02B 6/40 (2006.01); **G02B 6/38** (2006.01); **G02B 6/42** (2006.01)

CPC (source: EP US)

G02B 6/3825 (2013.01 - EP US); **G02B 6/3893** (2013.01 - EP US); **G02B 6/4292** (2013.01 - EP US); **G02B 6/3879** (2013.01 - EP US); **G02B 6/3885** (2013.01 - EP US)

Citation (search report)

See references of WO 0155762A2

Designated contracting state (EPC)

AT BE FR GB

DOCDB simple family (publication)

WO 0155762 A2 20010802; **WO 0155762 A3 20020321**; DE 10001680 C1 20010823; EP 1247125 A2 20021009; JP 2003521730 A 20030715; US 2003012520 A1 20030116; US 6604862 B2 20030812

DOCDB simple family (application)

DE 0100088 W 20010105; DE 10001680 A 20000112; EP 01909452 A 20010105; JP 2001555843 A 20010105; US 19507702 A 20020712