

Title (en)

Coupling device for an optical fibre.

Title (de)

Kopplungseinrichtung für eine Glasfaserleitung.

Title (fr)

Dispositif de couplage pour fibre optique.

Publication

**EP 0000529 A1 19790207 (FR)**

Application

**EP 78100414 A 19780718**

Priority

FR 7722716 A 19770725

Abstract (en)

[origin: US4253727A] Mode coupling using grating of ridges and furrows to curve the fibre along a zig-zag path are associated with an index matcher which surrounds the fibre. The average axis of the zig-zag fibre coincides that of the matcher. Light travels along lines all at the same angle to the axis of the matcher and pass through via a conical optical end surface thereof. The optical surface converts the said rays into a parallel beam for coupling with large aperture optical means such as a photo-cell or a LED.

Abstract (fr)

L'invention concerne un dispositif de couplage pour fibre optique. Des moyens de couplage de modes (14,16,12) par courbures alternées de la fibre (18) sont associés à un adaptateur d'indice (3) entourant la fibre et parcouru par un ensemble de rayons lumineux faisant tous un même angle avec l'axe (2) de celle-ci, et cet adaptateur est muni d'une surface optique conique (5) pour faire correspondre un faisceau parallèle à cet ensemble de rayons. Application aux télécommunications.

IPC 1-7

**G02B 5/14**

IPC 8 full level

**G02B 6/42** (2006.01); **H01B 11/00** (2006.01)

CPC (source: EP US)

**G02B 6/4201** (2013.01 - EP US); **G02B 6/4259** (2013.01 - EP US); **G02B 6/4286** (2013.01 - EP US); **G02B 6/4289** (2013.01 - EP US)

Citation (search report)

- US 4021099 A 19770503 - KAWASAKI BRIAN S, et al
- FR 2334125 A1 19770701 - COMP GENERALE ELECTRICITE [FR]

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EP0230938A3; EP0171246A3; FR2513390A1; GB2158607A; GB2162657A; EP0170511A3; GB2162962A; FR2574565A1; GB2179468A; US4294513A; GB2142157A; US4676584A

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