

Title (en)

COUPLING DEVICE FOR AN OPTICAL FIBRE

Publication

EP 0000529 B1 19810610 (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.

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)

Cited by

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

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EP 0000529 A1 19790207; **EP 0000529 B1 19810610**; CA 1111690 A 19811103; DE 2860751 D1 19810917; DK 144926 B 19820705; DK 144926 C 19821129; DK 329178 A 19790126; FR 2399042 A1 19790223; FR 2399042 B1 19820115; IE 47140 B1 19831228; IE 781481 L 19790125; IT 1097143 B 19850826; IT 7825688 A0 19780714; JP S5424045 A 19790223; US 4253727 A 19810303

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