

Title (en)  
OPTICAL ROTARY TRANSMITTER

Title (de)  
OPTISCHER DREHÜBERTRAGER

Title (fr)  
TRANSMETTEUR OPTIQUE À ROTATION

Publication  
**EP 2914991 A1 20150909 (DE)**

Application  
**EP 13789742 A 20131031**

Priority  
• DE 102012021453 A 20121031  
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Abstract (en)  
[origin: WO2014068059A1] The invention relates to an optical rotary transmitter for transmitting optical signals, comprising a first light coupler (1) that has one or a plurality of first light guides (11) the end faces of which are designed to transmit optical signals and are arranged on a first ring about a central rotational axis Z, a second light coupler (3) that has one or a plurality of second light guides (31) the end faces of which are designed to transmit optical signals and are arranged on a second ring about the central rotational axis Z, a fibre mirror (5) comprising a plurality of third light guides that are arranged between said two light couplers (1, 3) and are designed to compensate for the effect, on the transmission of the optical signals, of the two light couplers (1, 3) rotating relative to one another, the end faces of the third light guides being designed to transmit optical signals and arranged on a third and fourth ring about the central rotational axis Z. Light inlet/outlet surfaces that are formed by the third and fourth rings are substantially gap-free such that the optical signals can be continuously transmitted without interruption.

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CPC (source: EP US)  
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