

Title (en)  
RECEIVER FOR OPTICAL TRANSVERSE-MODE-MULTIPLEXED SIGNALS

Title (de)  
EMPFÄNGER FÜR OPTISCHE TRANSVERSALMODE-MULTIPLEXSIGNALS

Title (fr)  
RÉCEPTEUR POUR SIGNAUX À MULTIPLEXAGE DE MODES TRANSVERSAUX OPTIQUES

Publication  
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Application  
**EP 10727622 A 20100618**

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Abstract (en)  
[origin: WO2010151484A1] A representative optical receiver of the invention receives an optical transverse-mode-multiplexed (TMM) signal through a multimode fiber that supports a plurality of transverse modes. The optical receiver has a plurality of optical detectors operatively coupled to a digital signal processor configured to process the TMM signal to determine its modal composition. Based on the determined modal composition, the optical receiver demodulates each of the independently modulated components of the TMM signal to recover the data encoded onto the TMM signal at the remote transmitter.

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Citation (search report)  
See references of WO 2010151484A1

Citation (examination)  
ALIREZA TARIGHAT ET AL: "Fundamentals and Challenges of Optical Multiple-Input Multiple-Output Multimode Fiber Links", IEEE COMMUNICATIONS MAGAZINE, IEEE SERVICE CENTER, PISCATAWAY, US, 1 May 2007 (2007-05-01), pages 57 - 63, XP002598346, ISSN: 0163-6804

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