

Title (en)  
DEVICE AND METHOD FOR OPTICAL FREE SPACE TRANSMISSION

Title (de)  
VORRICHTUNG UND VERFAHREN ZUR DRAHTLOSEN OPTISCHEN ÜBERTRAGUNG

Title (fr)  
DISPOSITIF ET PROCEDE DE TRANSMISSION OPTIQUE EN ESPACE LIBRE

Publication  
**EP 1046248 A1 20001025 (DE)**

Application  
**EP 98967175 A 19981022**

Priority  
CH 9800454 W 19981022

Abstract (en)  
[origin: WO0025452A1] The inventive device for the free space optical transmission of data, speech, sound and image information comprises a transmitting module (2) with a laser diode, a transmitting optical device (4), and a receiving module (1) having an avalanche photodiode. The inventive device also comprises a navigation assistance unit and/or a sighting device (5), one or more contact wafer(s) and/or one or more hybrid unit(s). In addition, the inventive device is provided with one or more adjusting device(s) and a connection (6) for admitting both current and control pulses. According to the inventive method, modulated light pulses are transmitted at 904 nm or 267 nm. For a bi-directional transmission, the transmitting module (2), the receiving module (1) and a telescopic sight (5) are fastened to a common base plate, and they can, in part, be separately adjusted. The device is very simple to install. It is especially suited for optically communicating over a number of kilometers during bad atmospheric conditions and visibility.

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IPC 8 full level  
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CPC (source: EP)  
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Citation (search report)  
See references of WO 0025452A1

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