

Title (en)

HOLOGRAPHIC OPTICAL TRANSCEIVER EMPLOYING DIFFRACTIVE OPTIC FOR ATMOSPHERIC FREE SPACE TELECOMMUNICATION

Title (de)

HOLOGRAPHISCHER OPTISCHER SENDER-EMPFÄNGER MIT DIFFRAKTIVER OPTIK FÜR ATMOSPHERISCHE FREIRAUMÜBERTRAGUNGSSTRECKE

Title (fr)

EMETTEUR-RECEPTEUR OPTIQUE HOLOGRAPHIQUE METTANT EN OEUVRE UNE OPTIQUE DIFFRACTIVE POUR DES TELECOMMUNICATIONS ATMOSPHERIQUES EN ESPACE LIBRE

Publication

EP 1312176 A2 20030521 (EN)

Application

EP 01964159 A 20010817

Priority

- US 0125836 W 20010817
- US 64216400 A 20000818

Abstract (en)

[origin: WO0217516A2] A diffractive optic multiplexer/demultiplexer for telecommunications is disclosed. The diffractive optic provides wavelength multiplexing/demultiplexing. The diffractive optic is located off-axis to at least one source of diverging coherent electromagnetic energy, wherein the diffractive optic is configured to collimate the diverging coherent electromagnetic energy along a communication axis. The diffractive optic can be bi-directional, thereby providing multiplexing for the diverging beams intersecting the diffractive optic an demultiplexing for intersecting multiplexed collimated communication beams.

IPC 1-7

H04B 10/10

IPC 8 full level

H04B 10/112 (2013.01)

CPC (source: EP)

H04B 10/1123 (2013.01)

Citation (search report)

See references of WO 0217516A2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0217516 A2 20020228; WO 0217516 A3 20020815; AU 8504601 A 20020304; EP 1312176 A2 20030521

DOCDB simple family (application)

US 0125836 W 20010817; AU 8504601 A 20010817; EP 01964159 A 20010817