

Title (en)

OPTO-MICROWAVE TRANSDUCER WITH SUPPRESSION OF LOCAL OSCILLATOR SIGNAL, AND SYSTEM USING SAME

Title (de)

OPTISCHER MIKROWELLENWANDLER ZUR UNTERDRÜCKUNG DES LOKALEN OSZILLATORSIGNALES , UND DESSEN GEBRAUCH IN EINEM SYSTEM

Title (fr)

TRANSDUCTEUR OPTO-MICROONDE A SUPPRESSION DU SIGNAL D OSCILLATEUR LOCAL, ET SYSTEME METTANT EN OEUVRE UN TEL TRANSDUCTEUR

Publication

EP 1461858 A2 20040929 (FR)

Application

EP 02806326 A 20021210

Priority

- FR 0204244 W 20021210
- FR 0116977 A 20011228

Abstract (en)

[origin: WO03061113A2] The invention concerns a transducer for mixing a data signal at an intermediate frequency (IF) modulating an optical carrier with a microwave or millimetric wave from a local oscillator (LO). The microwave signal is then used as carrier for transmission to mobile terminals for example. Advantageously, said transducer performs a function for photodetection of the data signal, a function for mixing said data signal with the microwave signal and a function for suppressing in the output signal the LO frequency. Therefor, the transducer comprises two phototransistors in common transmitters, a current source connected to the two transmitters and a coupler for coupling the signals exiting from the collectors of the two phototransistors.

IPC 1-7

H03D 9/06

IPC 8 full level

H03D 9/06 (2006.01)

CPC (source: EP)

H03D 9/0666 (2013.01)

Citation (search report)

See references of WO 03061113A2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 03061113 A2 20030724; WO 03061113 A3 20040212; AU 2002364633 A1 20030730; EP 1461858 A2 20040929; FR 2834393 A1 20030704; FR 2834393 B1 20040312

DOCDB simple family (application)

FR 0204244 W 20021210; AU 2002364633 A 20021210; EP 02806326 A 20021210; FR 0116977 A 20011228