

Title (en)

OPTICAL SYSTEM AND METHOD FOR CHANGING THE LENGTHS OF OPTICAL PATHS AND THE PHASES OF LIGHT BEAMS

Title (de)

OPTISCHES SYSTEM ZUR ANDERUNG DER STRAHLENGÄNGE UND PHASEN VON LICHTSTRAHLEN

Title (fr)

SYSTEME OPTIQUE ET PROCEDE DE MODIFICATION DE LA LONGUEUR DES VOIES OPTIQUES ET DES PHASES DES FAISCEAUX LUMINEUX

Publication

EP 1031065 A1 20000830 (EN)

Application

EP 98954575 A 19981112

Priority

- GB 9803404 W 19981112
- GB 9810693 A 19980519
- US 96943497 A 19971112

Abstract (en)

[origin: WO9924867A1] The optical system comprises two optical paths (P1, P2), and an arrangement for changing the length of the two paths including two phase modulators (M1, M2) one coupled to each of the paths. A driving system (Figure 3) applies power to the phase modulators to drive them in the same direction and to change the amount of power applied to the phase modulators in opposite directions so as to change the length of each optical path in a different direction. As a result, the relationship between the changes in the amount of power applied to the modulators and the resulting changes in the phase of light beams passing through the device becomes substantially linear.

IPC 1-7

G02F 1/225

IPC 8 full level

G02F 1/035 (2006.01); **G02F 1/01** (2006.01); **G02F 1/015** (2006.01); **G02F 1/225** (2006.01)

CPC (source: EP)

G02F 1/0121 (2013.01); **G02F 1/2257** (2013.01); **G02F 2201/126** (2013.01)

Citation (search report)

See references of WO 9924867A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 9924867 A1 19990520; CA 2309815 A1 19990520; CN 1285931 A 20010228; EP 1031065 A1 20000830; JP 2001523012 A 20011120

DOCDB simple family (application)

GB 9803404 W 19981112; CA 2309815 A 19981112; CN 98813074 A 19981112; EP 98954575 A 19981112; JP 2000519808 A 19981112