

Title (en)

METHOD AND APPARATUS FOR ALIGNING OPTICAL WIRELESS LINKS

Title (de)

VERFAHREN UND VORRICHTUNG ZUM AUSRICHTEN OPTISCHER DRAHTLOSER VERBINDUNGEN

Title (fr)

PROCEDE ET APPAREIL D'ALIGNEMENT DE LIAISONS OPTIQUES RADIO

Publication

EP 1389371 A2 20040218 (EN)

Application

EP 02723916 A 20020419

Priority

- US 0212436 W 20020419
- US 28546101 P 20010420
- US 94076301 A 20010827

Abstract (en)

[origin: WO02086555A2] Optical wireless links (4, 6) automatically align themselves using feedback information that is transmitted over the light beams (16, 20) being aligned. Each link performs an acquisition routine in which its light beam is swept through a pre-defined pattern while transmitting its beam alignment information. When a link receives beam alignment information from a remote link, it updates its transmission to include the alignment information received from the remote link. At some point during the acquisition routine, the remote link will receive its own alignment information "echoed back" from the first link and will re-align its beam accordingly. At some point, each links will have received its own alignment information echoed back from the other link and will have aligned itself to that position. Data communication can begin at that point, or a more refined alignment step can then be performed. The alignment information can be based upon position, sample number, or time transmitted.

IPC 1-7

H04B 10/00

IPC 8 full level

H04B 10/112 (2013.01); **H04B 10/114** (2013.01); **H04B 10/40** (2013.01)

CPC (source: EP)

H04B 10/1127 (2013.01); **H04B 10/1143** (2013.01); **H04B 10/40** (2013.01)

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 02086555 A2 20021031; **WO 02086555 A3 20030313**; AU 2002254676 A1 20021105; EP 1389371 A2 20040218; EP 1389371 A4 20061108

DOCDB simple family (application)

US 0212436 W 20020419; AU 2002254676 A 20020419; EP 02723916 A 20020419