

Title (en)

OPTICAL UNIT FOR SYNCHRONIZING CLOCK SIGNALS

Title (de)

OPTISCHE EINHEIT ZUR SYNCHRONISIERUNG VON TAKTSIGNALEN

Title (fr)

DISPOSITIF OPTIQUE DE SYNCHRONISATION DE SIGNAUX D'HORLOGE

Publication

EP 0811263 A1 19971210 (EN)

Application

EP 96938431 A 19961204

Priority

- EP 96938431 A 19961204
- EP 95203626 A 19951222
- IB 9601348 W 19961204

Abstract (en)

[origin: WO9723933A1] The invention relates to an optical unit (17) for synchronizing clock signals. The unit (17) comprises at least two ring lasers (1', 1''), each ring laser (1', 1'') generating a repetitive optical pattern at a different repetition frequency f_i . The repetition frequency of at least one of the ring lasers (1', 1'') is variable. The unit (17) comprises detection means (19) adapted to simultaneously receive the optical patterns from two ring lasers (1', 1'') to be synchronized with each other and to compare these patterns. The ring laser, whose repetition frequency is variable, is controllable on the basis of a signal from the detection means, by which the optical path length of this laser is changed. The invention also relates to a high-frequency carrier transmission system comprising an optical unit as described hereinbefore.

IPC 1-7

H01S 3/10; **H04B 10/04**

IPC 8 full level

H01S 3/10 (2006.01); **H04B 10/04** (2006.01); **H04B 10/06** (2006.01); **H04B 10/07** (2013.01); **H04B 10/142** (2006.01); **H04B 10/152** (2006.01); **H04B 10/516** (2013.01); **H04B 10/524** (2013.01); **H04B 10/58** (2013.01); **H04B 10/61** (2013.01); **H04L 7/00** (2006.01)

CPC (source: EP)

H04L 7/0075 (2013.01)

Citation (search report)

See references of WO 9723933A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 9723933 A1 19970703; EP 0811263 A1 19971210; JP H11501168 A 19990126

DOCDB simple family (application)

IB 9601348 W 19961204; EP 96938431 A 19961204; JP 52346997 A 19961204