

Title (en)

IMPROVEMENTS IN ULTRAFAST TIME HOPPING CDMA-RF

Title (de)

VERBESSERUNGEN BEI RADIOFREQUENZ-CDMA MIT ZEITSPRUNGBETRIEB

Title (fr)

AMELIORATIONS CONCERNANT L'AMCR-HF A SAUTS TEMPORELS ULTRARAPIDES

Publication

EP 0966818 A4 20021009 (EN)

Application

EP 97930976 A 19970307

Priority

US 9703182 W 19970307

Abstract (en)

[origin: CA2262955A1] Ultrashort pulse time hopping code-division-multiple-access (CDMA) and time-division-multiple-access (TDMA) RF, IR, and optical communications systems (20, 30) in the time-frequency domain (60) comprise a transmitter (20) including a short duration pulse/packet generator (40) for generating a short duration pulse/packet in the femtosecond to microsecond range and a controller (14) for controlling the generator (40), code connected to the controller (14) for varying the time position of each short pulse/packet in frames (90) of pulses/packets (100) in orthogonal superframes (200) of ultrafast time hopping code and time division multiple access format precise oscillator-clock (10) for controlling such timing, encoding modems for transforming intelligence into pulse/packet position modulation form, and antenna/amplifier system (70). Orthogonal codes with temporal coding of the sequence of ultrafast pulses/packets constituting the carrier for transmission by the antenna system (70).

IPC 1-7

H04L 25/06

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [X] WO 9609694 A1 19960328 - PULSON COMMUNICATIONS CORP INC [US]
- [A] GARRETT I: "Pulse-position modulation for transmission over optical fibers with direct or heterodyne detection", IEEE TRANSACTIONS ON COMMUNICATIONS, APRIL 1983, USA, vol. COM-31, no. 4, pages 518 - 527, XP001093913, ISSN: 0090-6778
- See references of WO 9839882A1

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