Title (en)

SPREAD-SPECTRUM GMSK/M-ARY RADIO WITH OSCILLATOR FREQUENCY CORRECTION

Title (de)

SPREIZSPEKTORUM-GMSK/M-ARY FUNGERÄT MIT OSZILLATOR FREQUENZKORRECTION

Title (fr)

RADIO A BASE M/A MODULATION A DEPLACEMENT MINIMAL A FILTRAGE GAUSSIEN AVEC UNE CORRECTION DE FREQUENCES D'OSCILLATEUR

Publication

EP 1188249 A1 20020320 (EN)

Application

EP 00932152 A 20000505

Priority

- US 0012470 W 20000505
- US 13288299 P 19990506
- US 52239300 A 20000309
- US 56468300 A 20000504

Abstract (en)

[origin: WO0069088A1] A communication device includes a transmitter (21) and receiver. The transmitter (21) includes an M-ary encoder (23) configured to generate an M-1 number of distinctive symbols each comprising k bits. M is equal to 2k and k is a positive integer. The transmitter (21) also includes a code generator (25) configured to produce spread spectrum codeword sequence based on the symbols generated by the M-ary encoder and based on a first and second Gold code polynomials. The transmitter (21) sends a radio signal based on the spread spectrum codeword sequences to a receiver. The receiver includes a first shift register (81) configured to receive an input signal generated based on the received radio signal and a second shift register (83) configured to receive and circularly shift a locally generated codeword sequence that is identical to the codeword sequence used to encode the symbols.

IPC 1-7

H04B 1/69

IPC 8 full level

H03L 7/091 (2006.01); **H03L 7/181** (2006.01); **H04B 1/707** (2011.01); **H04J 13/00** (2011.01); **H04L 27/20** (2006.01); **H04L 27/22** (2006.01); H04L 27/00 (2006.01)

CPC (source: EP)

H03L 7/091 (2013.01); **H03L 7/181** (2013.01); **H04B 1/707** (2013.01); **H04J 13/0029** (2013.01); **H04J 13/10** (2013.01); **H04L 27/2017** (2013.01); **H04L 27/22** (2013.01); H04L 2027/0028 (2013.01); H04L 2027/0055 (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

DOCDB simple family (publication)

WO 0069088 A1 20001116; **WO 0069088 A8 20010322**; AR 031519 A1 20030924; BR 0010340 A 20020604; EP 1188249 A1 20020320; EP 1188249 A4 20061227; JP 2003530728 A 20031014

DOCDB simple family (application)

US 0012470 W 20000505; AR P000102189 A 20000505; BR 0010340 A 20000505; EP 00932152 A 20000505; JP 2000617573 A 20000505