

Title (en)

45 DEGREE PHASE AMBIGUITY RESOLUTION FOR 8PSK MODULATION

Title (de)

AUFLÖSUNG VON 45 GRAD PHASENMEHRDEUTIGKEIT FÜR 8PSK MODULATION

Title (fr)

LEVÉE D'AMBIGUÏTÉ DES PHASES A 45 DEGRÉS DESTINÉE A LA MODULATION 8-MDP

Publication

EP 1072098 A1 20010131 (EN)

Application

EP 99916691 A 19990416

Priority

- US 9908342 W 19990416
- US 8220098 P 19980417

Abstract (en)

[origin: WO9955009A1] A method and apparatus for 45 DEG phase ambiguity resolution for one coded bit per symbol 8PSK modulation resolves phase ambiguity by selection of pre-differential encoders. A treillis encoder for 8PSK modulation of the type in which input data bits are encoded to a three-bit symbols includes a differential encoder, a convolutional encoder and first and second encoding assemblies. A decoder for decoding treillis coded data of 8PSK modulation includes a Viterbi decoder, a differential decoder, a convolutional decoder and first and second decoder assemblies. Each of the encoding and decoding assemblies includes multiplexing logic for selecting from among possible data paths according to a phase invariant scheme.

IPC 1-7

H03M 13/00; **H04L 27/18**

IPC 8 full level

H03M 13/00 (2006.01); **H04L 27/18** (2006.01)

CPC (source: EP)

H03M 13/256 (2013.01); **H04L 27/186** (2013.01)

Citation (search report)

See references of WO 9955009A1

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 9955009 A1 19991028; AU 3495099 A 19991108; EP 1072098 A1 20010131

DOCDB simple family (application)

US 9908342 W 19990416; AU 3495099 A 19990416; EP 99916691 A 19990416