

Title (en)
SPREAD SPECTRUM TRANSMISSION SYSTEM WITH REDUCTION OF INTERSYMBOL INTERFERENCE

Title (de)
SPREIZSPEKTRUMÜBERTRAGUNGSSYSTEM MIT VERMINDERUNG DER INTERSYMBOLSTÖRUNG

Title (fr)
SYSTEME D'EMISSION A SPECTRE ETALE AVEC REDUCTION DU BROUILLAGE INTER-SYMOBLES

Publication
EP 1129524 A1 20010905 (EN)

Application
EP 00960563 A 20000831

Priority
• EP 00960563 A 20000831
• EP 0008495 W 20000831
• EP 99202952 A 19990910

Abstract (en)
[origin: WO0120798A1] In a spread spectrum communication system a transmitter uses a spreading codeword to obtain spreaded digital symbols from source symbols. These spreaded digital symbols are transmitted to a receiver which uses de-spreading means to obtain the originally transmitted source symbols. A problem in spread spectrum transmission system is that due to multipath transmission so-called intersymbol interference can occur. This intersymbol interference causes an increased bit error rate. In the transmission system according to the present invention it is proposed to use a de-spreading codeword which is shorter than the spreading codeword, so no overlap of signals originated from different symbols with the despreding codeword occurs. Preferably, the spreading codeword comprises a concatenation of the despreding codeword and a preamble. This preamble can be a cyclically permuted part of the despreding codeword.

IPC 1-7
H04B 1/707

IPC 8 full level
H04B 1/707 (2011.01); **H04W 16/00** (2009.01)

CPC (source: EP KR)
H04B 1/7073 (2013.01 - KR); **H04B 1/7075** (2013.01 - EP); **H04B 1/711** (2013.01 - KR); **H04J 13/0003** (2013.01 - KR);
H04B 1/70751 (2013.01 - EP); **H04B 1/7117** (2013.01 - EP)

Citation (search report)
See references of WO 0120798A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
WO 0120798 A1 20010322; CN 1294704 C 20070110; CN 1337097 A 20020220; EP 1129524 A1 20010905; JP 2003509946 A 20030311;
KR 20010092451 A 20011025

DOCDB simple family (application)
EP 0008495 W 20000831; CN 00802676 A 20000831; EP 00960563 A 20000831; JP 2001524255 A 20000831; KR 20017005789 A 20010508