

Title (en)

Channel estimation for time division duplex communication systems

Title (de)

Kanalschätzung für ein Zeitduplexkommunikationssystem

Title (fr)

Estimation de canal pour un système de communication duplex à répartition dans le temps

Publication

EP 1635525 B8 20071003 (EN)

Application

EP 05111738 A 20010105

Priority

- EP 04006212 A 20010105
- EP 01901796 A 20010105
- US 17516700 P 20000107

Abstract (en)

[origin: EP1635525A1] A single transmitter transmits K communication bursts in a shared spectrum in a time slot of a time division duplex communication system. Each burst has an associated midamble sequence. A receiver receives a vector corresponding to the transmitted midamble sequences of the K communication bursts. A matrix having K identical right circulant matrix blocks is constructed based in part on the known N midamble sequences. The wireless channel between the transmitter and receiver is estimated based on in part the constructed matrix and the received vector.

IPC 8 full level

H04L 25/02 (2006.01)

CPC (source: EP)

H04L 25/0204 (2013.01); **H04L 25/0224** (2013.01); **H04L 25/0242** (2013.01); **H04L 25/025** (2013.01); **H04B 1/7105** (2013.01); **H04B 2201/70709** (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 TR

DOCDB simple family (publication)

EP 1635525 A1 20060315; EP 1635525 B1 20070801; EP 1635525 B8 20071003

DOCDB simple family (application)

EP 05111738 A 20010105