

Title (en)

RANGING CHANNEL STRUCTURES AND METHODS

Title (de)

KANALSTRUKTUREN FÜR ENTFERNMUNGSMESSUNG UND VERFAHREN

Title (fr)

PROCÉDÉS ET STRUCTURES DE CANAL DE TÉLÉMÉTRIE

Publication

**EP 2591562 A1 20130515 (EN)**

Application

**EP 10796615 A 20100706**

Priority

- CA 2010001034 W 20100706
- US 22310809 P 20090706

Abstract (en)

[origin: WO2011003183A1] To facilitate ranging between mobile terminals and a base station in a wireless communication network employing orthogonal frequency division multiplexing (OFDM) for uplink data communications, a periodic ranging channel for use by a mobile terminal is defined. The channel specifies a plurality N of blocks of sub-carrier frequencies of an OFDM frequency band which are non-contiguous within the OFDM frequency band. The channel also specifies a time slot within an OFDM subframe which spans one or more OFDM symbol periods. A ranging transmission is periodically sent as a spread signal across the specified N blocks of sub-carrier frequencies within the specified time slot. The duration of the ranging transmission may be less than a duration of the OFDM subframe. A notional grid of tiles representing time and frequency resources associated with the subframe may facilitate channel definition. A similar approach may be used to define an initial access channel for initial access transmissions.

IPC 8 full level

**H04B 7/208** (2006.01); **H04B 7/01** (2006.01); **H04W 72/04** (2009.01)

CPC (source: EP KR)

**H04B 7/04** (2013.01 - KR); **H04L 5/0007** (2013.01 - KR); **H04L 5/0048** (2013.01 - EP KR); **H04L 27/2602** (2013.01 - KR); **H04W 72/044** (2013.01 - EP); **H04W 72/0446** (2013.01 - KR); **H04W 72/0453** (2013.01 - KR); **H04B 7/04** (2013.01 - EP)

Citation (search report)

See references of WO 2011003183A1

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