Title (en)

RANGING CHANNEL STRUCTURES AND METHODS

Title (de)

KANALSTRUKTUREN FÜR ENTFERNUNGSMESSUNG UND VERFAHREN

Title (fr)

PROCÉDÉS ET STRUCTURES DE CANAL DE TÉLÉMÉTRIE

Publication

EP 2591562 A1 20130515 (EN)

Application

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Priority

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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

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CPC (source: EP KR)

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Citation (search report)

See references of WO 2011003183A1

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DOCDB simple family (publication)

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