

Title (en)

ACCESS CHANNEL SCHEDULING IN A RADIO COMMUNICATION SYSTEM

Title (de)

ZUTEILUNG VON ZUGRIFFSKANÄLEN IN EINEM FUNKKOMMUNIKATIONSSYSTEM

Title (fr)

PROGRAMMATION DE CANAL D'ACCES DANS UN SYSTEME DE RADIOCOMMUNICATION

Publication

EP 1277365 A1 20030122 (EN)

Application

EP 00917262 A 20000323

Priority

IT 0000101 W 20000323

Abstract (en)

[origin: WO0172080A1] A process for the access channel scheduling to radio channels shared by a plurality of Mobile units of an UMTS mobile telecommunication system. Said process allowing to a mobile unit to access to the base station (BTSC) and signal the assignment requests of a dedicated channel, or to have direct access to the new channel in case of asynchronous intercell handover. The process consists in marking a basic TDMA-CDMA frame within the multiframe, with periodicity and phase that can be separately controlled. The aggregate of the marked frames having equal phase forms a subchannel shared by the Mobile units to perform a specific access typology associated to that subchannel. The access takes place through the transmission of a signature sequence, random selected by the Mobile units among a plurality of different sequences associated to the carrier used in the cell. To mark the frames of a subchannel, an expression of the following type is used: SFN module [P1]=P2, where SFN is the System Frame Number and P1 and P2 are two parameters signalled at first by the network in a System Information message broadcast diffused by the BTS in a common control channel, or time by time included in the following messages: Paging Request, Immediate Assignment, Handover Command, Uplink free.

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H04Q 7/38

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