

Title (en)

BROADCAST-CENTRIC CELLULAR COMMUNICATION SYSTEM, METHOD, AND MOBILE STATION

Title (de)

BROADCAST-ZENTRISCHES ZELLULARES KOMMUNIKATIONSSYSTEM, VERFAHREN UND MOBILSTATION

Title (fr)

SYSTÈME DE COMMUNICATION CELLULAIRE CENTRÉ SUR LA DIFFUSION GÉNÉRALE, PROCÉDÉ ET STATION MOBILE

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Application

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Abstract (en)

[origin: WO2007084047A1] The present invention relates to a broadcast-centric cellular communication system that improves broadcast channel performance by exploiting the benefits of macro-diversity in a cellular communication system having a plurality of base stations that transmit signals within a plurality of associated cells. System-specific control information common to all cells is synchronously and simultaneously broadcast from multiple base stations using a broadcast channel that is identical across the entire system. Cell-specific control information is transmitted individually from each base station. Mobile stations use the broadcast information for initial synchronization to the system, and to obtain most relevant system information. After system synchronization, the mobile stations identify the connected cell through a physical layer characteristic, and perform initial access to the system. The invention furthermore relates to a mobile station for operating in such communication system and a method in said mobile station.

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