

Title (en)  
HANDOVER PROCEDURES IN A RADIO COMMUNICATION SYSTEM

Title (de)  
WEITERREICHUNGSVERFAHREN IN EINEM FUNKKOMMUNIKATIONSSYSTEM

Title (fr)  
PROCEDURES DE TRANSFERT DANS UN SYSTEME DE RADIOCOMMUNICATION

Publication  
**EP 1281289 A1 20030205 (EN)**

Application  
**EP 00917263 A 20000323**

Priority  
IT 0000102 W 20000323

Abstract (en)  
[origin: WO0172081A1] Intercell handover method in UMTS mobile systems in TDMA-SCDMA technique (and also FDMS-SDMA) with full duplexing of the TDD type. The complexity of the technique adopted requires a frame synchronization mechanism employing a downlink pilot signal, broadcasting transmitted by the base station, echoed by signature sequences transmitted by the single Mobile units in the procedures foreseeing an uplink access. The above, together with the high cipher speed (1.28 Mchip) imposed by the CDMA technique, makes inappropriate the addition of other fields to the sequence of the downlink pilot, which shall remain a pure synchronization sequence. Contrarily to the GSM, a field is missing in the synchronism burst for the transport of the system frame number FSN, absolutely necessary for the iperframe synchronism and the starting of ciphering on the channel. The information on SFN is included in the common signalling channel as other broadcasting information. This would unacceptably slow the handover and therefore a message has been created and put at disposal of the network to return the current system frame number FSN in the new cell in a dedicated mode, in reply to the HANDOVER ACCESS message sent by the Mobile (fig. 16).

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**H04Q 7/38**

IPC 8 full level  
**H04B 7/26** (2006.01); **H04J 13/00** (2011.01); **H04W 36/08** (2009.01); **H04W 56/00** (2009.01)

CPC (source: EP US)  
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