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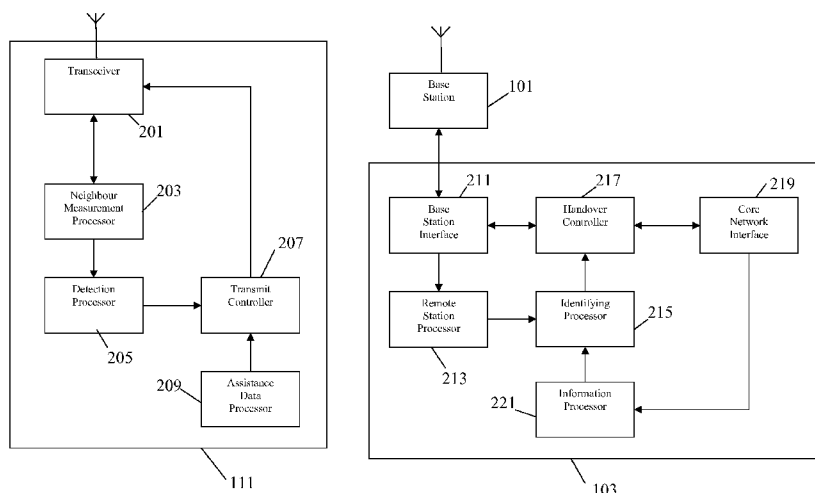
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(54) Title: HANDOVER IN A CELLULAR COMMUNICATION SYSTEM



(57) Abstract: A cellular communication system includes base stations supporting macro cells and with unique cell scrambling codes within a region. The system further includes access points supporting underlay cells and with shared cell scrambling codes within the region. One or more of the access points or base stations comprise transmit means for transmitting an indication of at least a first shared scrambling code to a remote station. The shared scrambling code is shared by a plurality of access points. The remote station is arranged to receive the first shared scrambling code and to determine if a first signal using the first shared scrambling code is received. If the first signal is detected, a handover controller initiates a handover of the remote station to at least a first access point of the plurality of access points sharing the first shared scrambling code.

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## INTERNATIONAL SEARCH REPORT

International application No.

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04Q 7/20 (2008.01)

USPC - 455/450

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8): H04Q 7/20 (2008.01)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
455/446, 452.1

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

USPTO WEST (PGPB, USPT, EPAB, JPAB); Google

Search Terms Used: handoff\$, handover\$, macro, cell, underlay, shar\$, sync\$, cdma, code, scramble\$

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2006/0166677 A1 (DERAKSHAN et al.) 27 July 2006 (27.07.2006), entire document, especially Fig 1 and para [0013]-[0017], [0034]-[0048]	1-10
Y	US 2005/0070287 A1 (CAVE et al.) 31 March 2005 (31.03.2005), entire document, especially para [0021]-[0027]	1-10
A	US 2004/0038682 A1 (PERSSON et al.) 26 February 2004 (26.02.2004), entire document	1-10
A	US 2006/0142020 A1 (MUECKENHEIM et al.) 29 June 2006 (29.06.2006), entire document	1-10

 Further documents are listed in the continuation of Box C.

\* Special categories of cited documents:

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

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