SYSTEM AND METHOD FOR MOBILE STATION AUTHENTICATION USING SESSION INITIATION PROTOCOL (SIP)

Abstract: A system and method for transmitting CDMA call set-up parameters including authentication parameters through an IP-based infrastructure to an authenticating entity. A base station (16) encapsulates, in SIP messages, CDMA data from wireless communication devices (12), with the headers of the messages indicating the presence of the CDMA-specific data in the message body. The SIP messages are routed through the infrastructure to an IS41 gateway (22), which strips the CDMA-specific data from the SIP messages and sends the necessary data to the authenticating entity for setting up a CDMA call.
For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) : H04L 12/66; H04B 7/216
US CL. : 370/356, 401, 467
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)
U.S. : 370/356, 401, 467, 466

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>US 6,138,007 A (BHARATIA) 24 October 2000, see entire document.</td>
<td>1-29</td>
</tr>
</tbody>
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☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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Date of mailing of the international search report: 15 JAN 2003

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Continuation of B. FIELDS SEARCHED Item 3:

EAST

search terms: voip, OTA, CDMA, IS41, IP, SIP, session initiation