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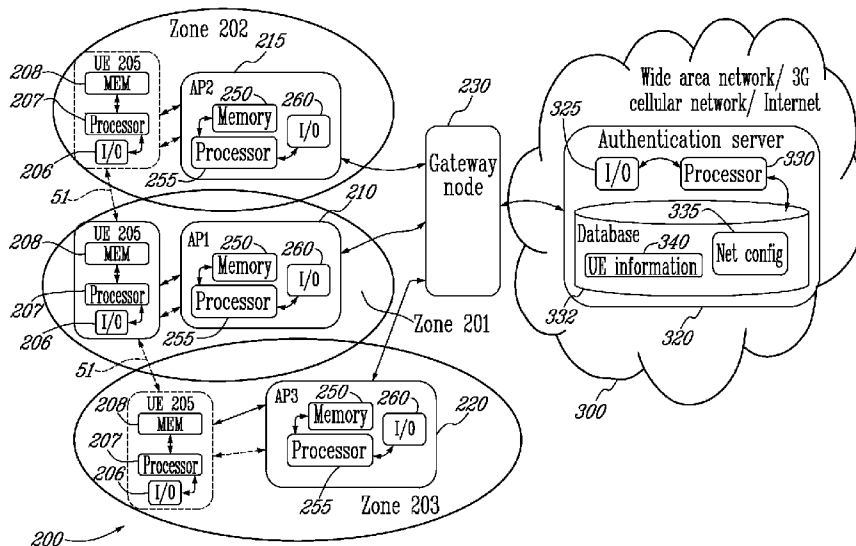
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(54) **Title:** METHOD FOR FAST HANDOVER AND AUTHENTICATION IN A PACKET DATA NETWORK



(57) **Abstract:** A method and access point (AP) for providing real-time service access to a user equipment in a packet data network. The AP receives an authentication information message from an authentication server. The authentication information message includes an identity of the UE involved in a real-time service with a corresponding node and information data for authenticating the UE at the AP. The AP detects that the UE enters the zone coverage of the AP and sends a puzzle from the AP to the UE. The AP further receives from the UE an answer for the puzzle and verifies the received answer for authenticating the UE at the AP. Afterwards, the UE is allowed to continue the real-time service with the corresponding node.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. H04L29/06 H04Q7/32 H04Q7/38

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)
H04L G06F H04Q

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 practical search terms used)

EPO-Internal , WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category'	Citation of documents with indication where appropriate of the relevant passages	Relevant to claim No
X A	EP 1 422 875 A (DOCOMO COMM LAB USA INC [US] NTT DOCOMO INC [JP]) 26 May 2004 (2004-05-26) paragraphs [0009], [0027], [0037] - [0040], [0045], [0046], [0069] claims 1,4,7,10 -----	1,3,4,7, 9,11,12, 15 2,5,6,8, 10,13,14
A	US 2004/014422 A1 (KALLIO JANNE J [FI]) 22 January 2004 (2004-01-22) paragraphs [0014], [0072] - [0078], [0085], [0088] -----	1-15
A	GB 2 409 377 A (MOTOROLA INC [US]) 22 June 2005 (2005-06-22) page 4, lines 7-19 claims 1,9 -----	1-15

Further documents are listed in the continuation of Box C

See patent family annex

* Special categories of cited documents

- 'A' documents defining the general state of the art which is not considered to be of particular relevance
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- 'O' documents referring to an oral disclosure use exhibition or other means
- 'P' documents published prior to the international filing date but later than the priority date claimed

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- 'X' documents of particular relevance the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the documents is taken alone
- 'Y¹' documents 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
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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