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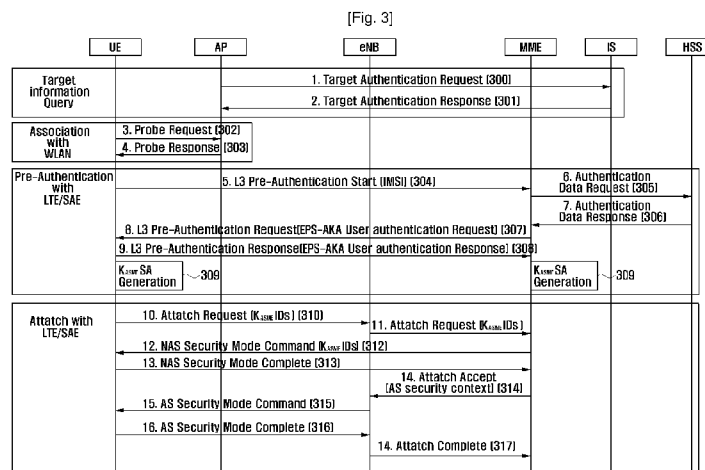
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(54) Title: HANDOVER METHOD OF MOBILE TERMINAL BETWEEN HETEROGENEOUS NETWORKS



(57) Abstract: A handover method of a mobile terminal between heterogeneous networks for facilitating the handover with pre-authentication procedure is provided. A handover method between heterogeneous networks includes receiving, at a mobile terminal connected to a source network, information on at least one target authenticator of a target network from a source authenticator in response to an attach request; creating an authentication key between the mobile terminal and the target authenticator selected among the at least one target authenticator through a pre-authentication process; determining, when the mobile terminal transmits a handover request to the selected target authenticator, whether the authentication key contained in the handover request matches with the authentication key stored in the selected target authenticator; and connecting, when the authentication keys match with each other, to the target network via the selected target authenticator.

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INTERNATIONAL SEARCH REPORT

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PCT/KR2009/007706**A. CLASSIFICATION OF SUBJECT MATTER****H04W 12/06(2009.01)i, H04W 36/14(2009.01)i, H04W 36/26(2009.01)i**

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)

H04W 12/06; H04L 9/00; H04L 9/32; H04M 1/66; H04Q 7/00

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: "pre-authentication, handover, heterogeneous network"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2008-0310366 A1 (OBA, YOSHIHIRO et al.) 18 December 2008 See abstract, figures 2,5,6,11, paragraphs [0083]-[0084], [0093], [0155]-[0156], [0160], and claims 1,3-4,7-8.	1-21
A	US 2007-0204155 A1 (DUTTA, ASHUTOSH et al.) 30 August 2007 See abstract, figures 1,5, paragraphs [0100]-[0116], [0121], [0141]-[0143], [0174]-[0180], and claims 1-6,15,18-20	1-21
A	US 2007-0213033 A1 (ALPER, YEGIN et al.) 13 September 2007 See abstract, figures 2,4, paragraphs [0033]-[0034], [0039], [0042], [0050]-[0052], [0059], and claims 1,3-5.	1-21

 Further documents are listed in the continuation of Box C. See patent family annex.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2008-0310366 A1	18.12.2008	CN 101542967 A EP 2160862 A2 KR 10-2009-0094799 A WO 2008-153164 A2	23.09.2009 10.03.2010 08.09.2009 18.12.2008
US 2007-0204155 A1	30.08.2007	None	
US 2007-0213033 A1	13.09.2007	KR 10-2007-0092571 A	13.09.2007