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[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR DYNAMIC AND SPONTANEOUS ROAMING AGREEMENT OF HETEROGENOUS NETWORKS

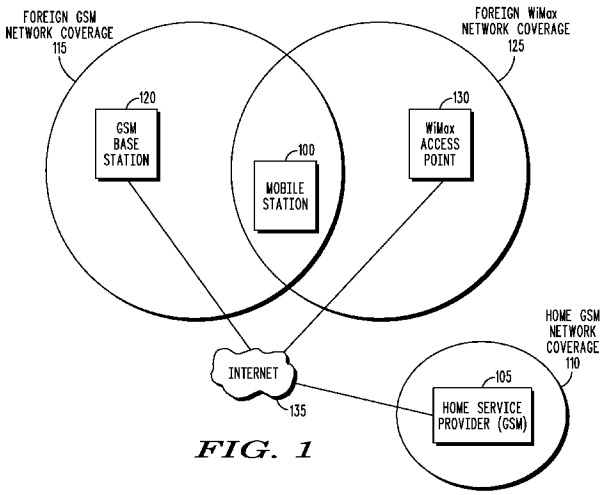

FIG. 1

(57) Abstract: A system includes a foreign service provider (405) to provide wireless services within a foreign network. A foreign server (415) handles authentication, authorization, and accounting for the wireless services provided by the foreign service provider (405). A processing device (445) detects a mobile station (400) associated with a home service provider (410) requesting at least one wireless service. A communication element (455) establishes a communication channel between the foreign server (415) and a home server (425). A negotiation element (450) negotiates wireless coverage details for the mobile station (400) between the home service provider (410) and the foreign service provider (405) in response to a minimum level of trust being established between the foreign server (415) and the home server (425). Wireless services are provided by the foreign service provider to the mobile station in response to a successful negotiation.

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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)

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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 since 1975
Japanese Utility Models and applications for Utility Models since 1975

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

eKIPASS(KIPO internal), IEEExplore, "home", "foreign", "server", "mobile station"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,377,982 B1 (Girish Rai et al.) 23 Apr. 2002 See the Abstract; FIG. 15; column 2, line 30 - column 3, line 16, column 20, lines 01 - 21; Claims 1-23.	1-10
Y	US 6,675,208 B1 (Girish Rai et al.) 06 Jan. 2004 See the Abstract; column 2, line 31 - column 3, line 16; Claims 1-12.	1-10
A	US 6,577,643 B1 (Girish Rai et al.) 10 Jun. 2003 See the Abstract; FIG. 3; column 2, line 34 - column 3, line 11; Claims 1-18.	1-10

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:
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"&" document member of the same patent family

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