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(54) **Title:** METHOD OF AUTHENTICATING HOME OPERATOR FOR OVER-THE-AIR PROVISIONING OF A WIRELESS DEVICE

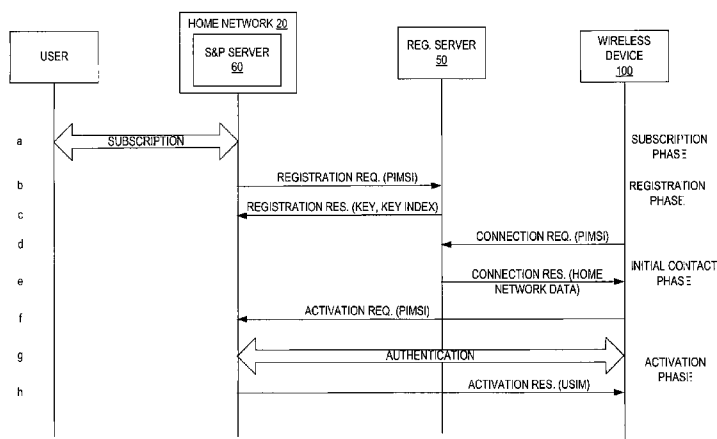


FIG. 3

(57) **Abstract:** A method and apparatus is provided for authentication between a home network and a wireless device during registration activation using a registration server as a trusted agent. The wireless device owner subscribes to the services of the home network and the home network registers as the service provider with the registration server. When the home network registers with the registration server, the registration server provides authentication data to the home network to use for authentication with the wireless device. Because the wireless device has no prior knowledge of the home network, the wireless device connects to the registration server to obtain contact information for the home network. The registration server provides home network data to the wireless device. In some embodiments, the registration server may also provide second authentication data to the wireless device for authenticating the home network. When the wireless device subsequently connects to the home network to download permanent security credentials, the home network uses the information provided by the registration server to authenticate itself to the wireless device. The authentication procedure prevents a third party from fraudulently obtaining confidential information from the home network or the wireless device.



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B. FIELDS SEARCHED

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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)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>3GPP: "3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Feasibility Study on Remote Management of USIM Application on M2M Equipment; (Release 8)" 3GPP DRAFT; S3A070901-V2-TR33812-V010-CL, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. SA WG3, no. Sophia Antipolis, France; 20080118, 18 January 2008 (2008-01-18), XP050268005 [retrieved on 2008-01-18] cited in the application figures 1,2 Scope; abstract Registration Service; page 11 Selected Home Operator; page 11</p> <p style="text-align: right;">-/--</p>	1-44

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

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>Prerequisite; page 13 Interactions; page 13 - page 14 -----</p> <p>ERICSSON: "Architecture Modifications and Alternatives for Remote Management of USIM Application on M2M Equipment" 3GPP DRAFT; S3_080163_PCR_TR33812_FUNCARCH, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. SA WG3, no. Sanya; 20080218, 18 February 2008 (2008-02-18), XP050280533 [retrieved on 2008-02-18] figures 1,2 Section 5.2.1.3.2 Registration Operator; page 2 - page 3 Section 5.2.1.3.2 Prerequisite; page 4 - page 5 Section 5.2.1.3.2 Interactions; page 5 Section 5.2.1.3.3; page 5 - page 6 -----</p>	1-44