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(54) **ENHANCED SERVICE PLATFORM WITH SECURE SYSTEM AND METHOD FOR SUBSCRIBER PROFILE CUSTOMIZATION**

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(58) **Field of Search** 709/202–203; 707/1, 10, 100, 200; 455/461; 370/351, 385

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,610,910 * 3/1997 Focsaneanu et al. 370/351
5,742,905 * 4/1998 Pepe et al. 455/461
5,774,671 * 6/1998 Satoh 709/231
5,813,006 * 9/1998 Polnerow et al. 707/10
5,867,498 * 2/1999 Gillman et al. 370/385
5,881,234 * 3/1999 Schwob 709/219
5,898,839 * 4/1999 Berteau 709/227
5,958,016 * 9/1999 Chang et al. 709/229

OTHER PUBLICATIONS

PCT/ISA International Search Report, Nov. 24, 2000, International Application No. PCT/US00/20434, 4 Sheets.

* cited by examiner

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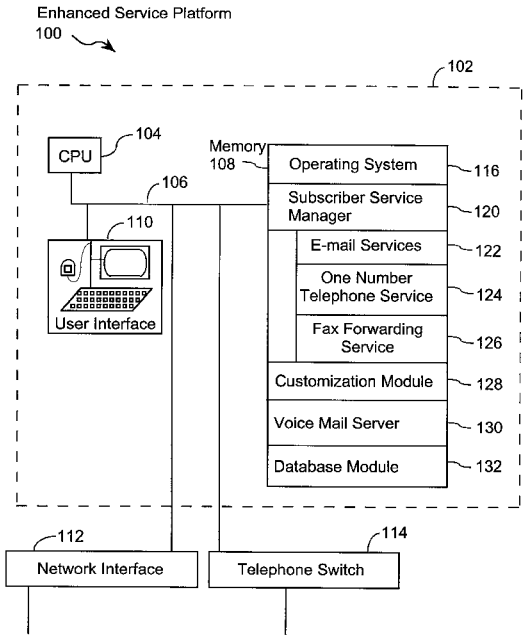
(57) **ABSTRACT**

An enhanced telephone service system including a subscriber service manager and a customization module. The subscriber service manager is configured to receive subscriber transaction-ID requests, supply transaction identifiers and respond to queries for subscriber profile data. The customization module is configured to receive customization messages. When a customization message includes a transaction identifier, the customization module compares the transaction identifier in the customization message with the transaction identifiers generated by the subscriber service manager. Only if there is a match between the transaction identifiers does the customization module register the customization data. Alternatively, if the customization message does not contain a transaction identifier but does contain a subscriber identifier, the customization module temporarily stores the customization data. When a subscriber logs on to the system and there is pending temporarily stored customization data, the customization module prompts the subscriber for authorization to register the temporarily stored data.

33 Claims, 9 Drawing Sheets