

(12) **United States Patent**
Turtiainen

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(54) **METHOD, APPARATUS, AND ARRANGEMENT FOR AUTHENTICATING A USER TO AN APPLICATION IN A FIRST COMMUNICATIONS NETWORK BY MEANS OF A MOBILE STATION COMMUNICATING WITH THE APPLICATION THROUGH A SECOND COMMUNICATIONS NETWORK**

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(52) **U.S. Cl.** **455/411**; 455/456; 380/33
(58) **Field of Search** 455/411, 410, 455/414, 432, 456, 407, 406, 408; 380/247, 270, 33, 248, 271

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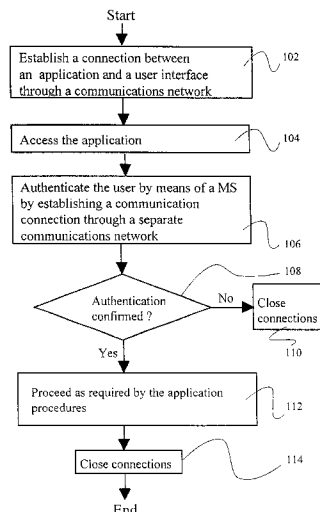
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(57) **ABSTRACT**

A method, arrangement, and apparatus for providing an authentication to an application provided through a communications network. A connection is established between the application and a user interface through said communications network so as to enable an access of a user to the application. An authentication is provided to said application by means of a mobile station communicating through a mobile communications network.

20 Claims, 6 Drawing Sheets



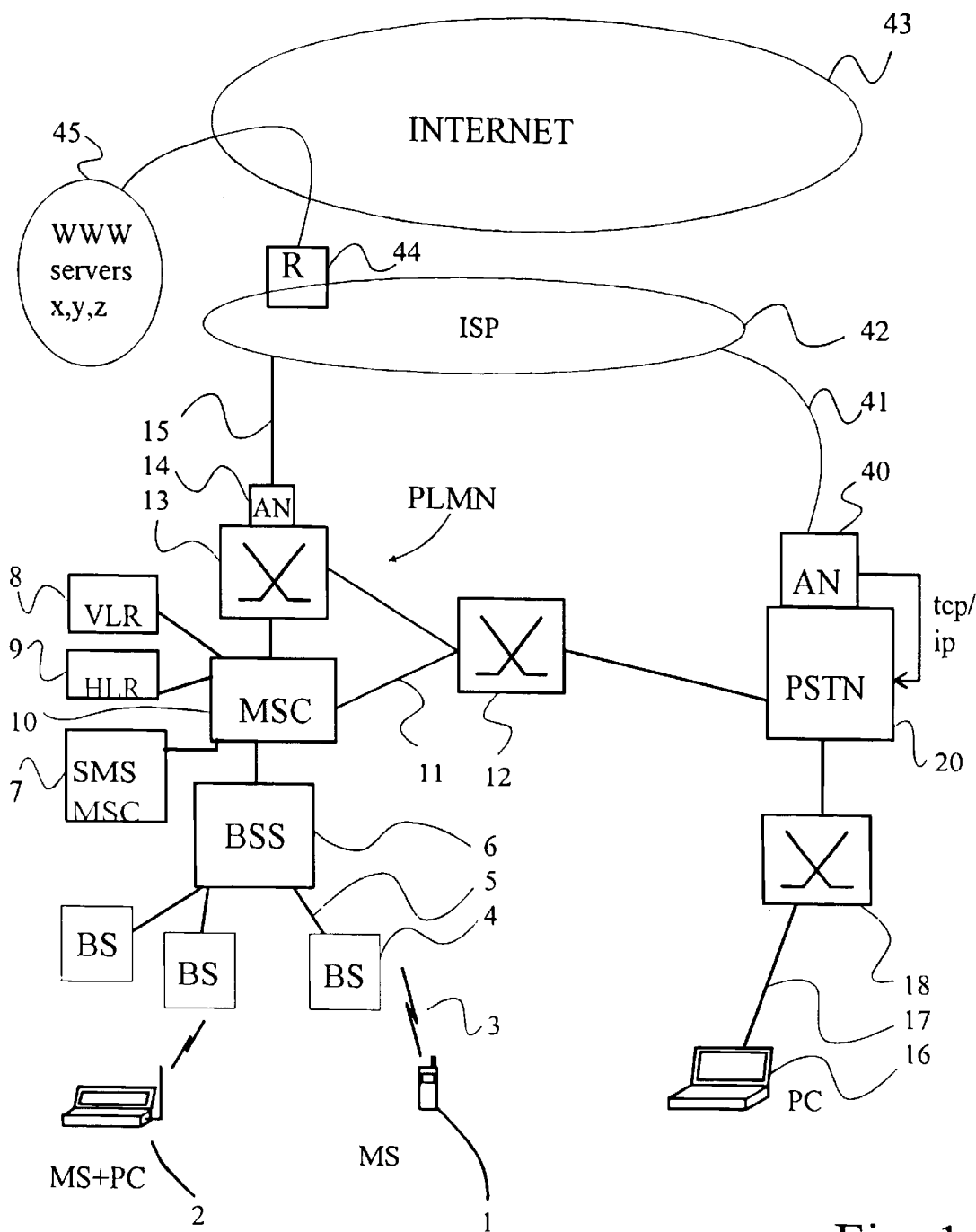


Fig. 1

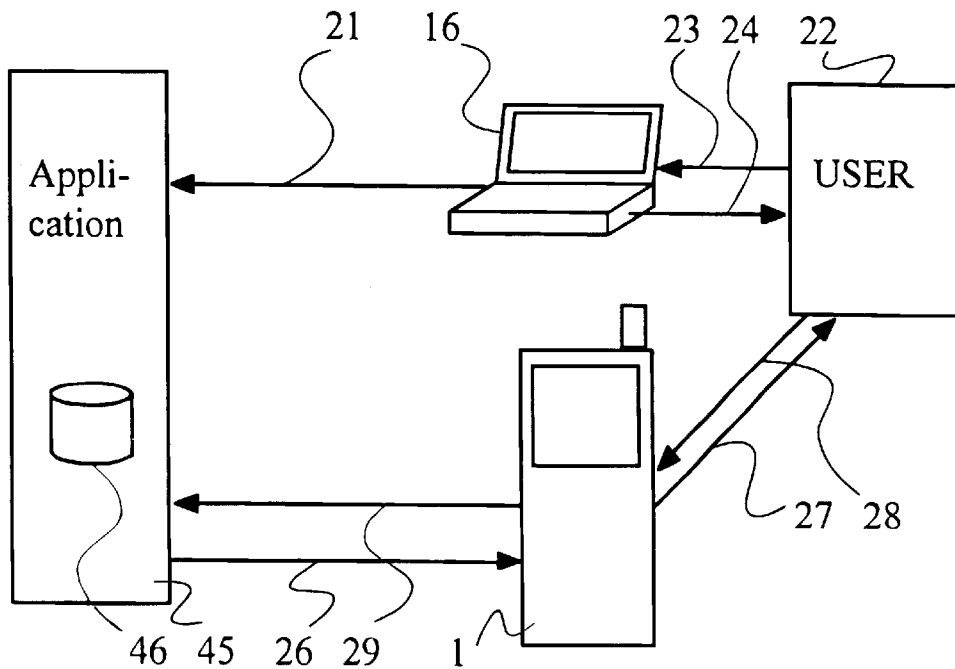


Fig. 2

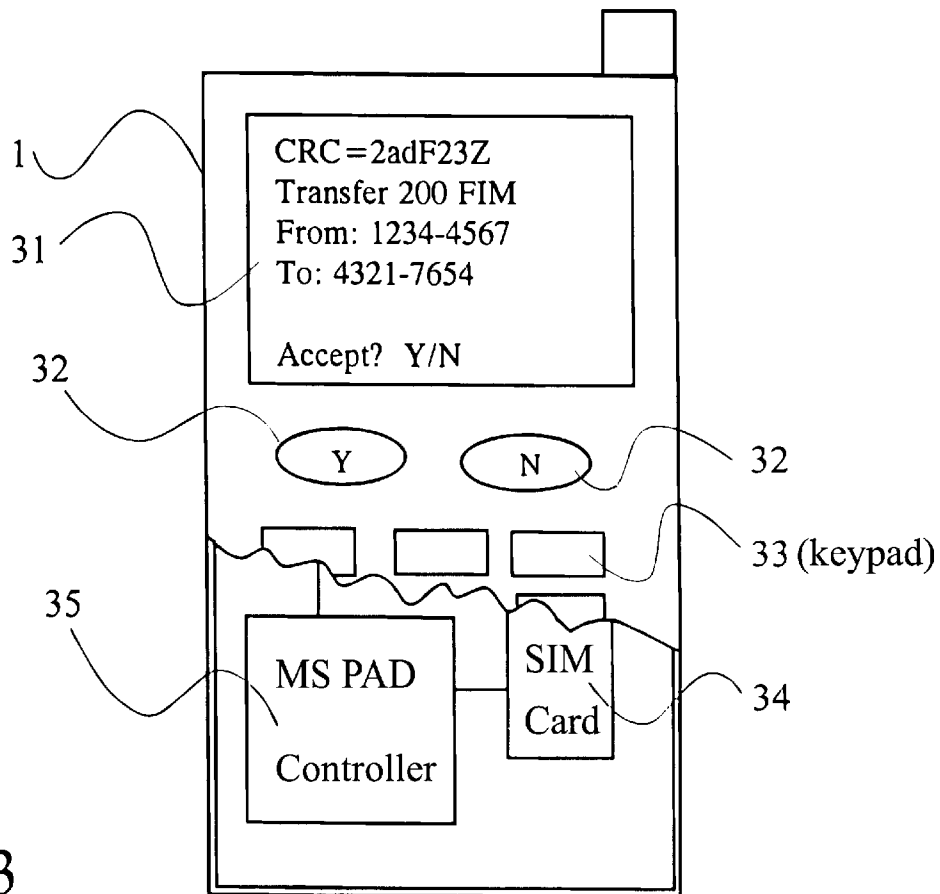


Fig. 3

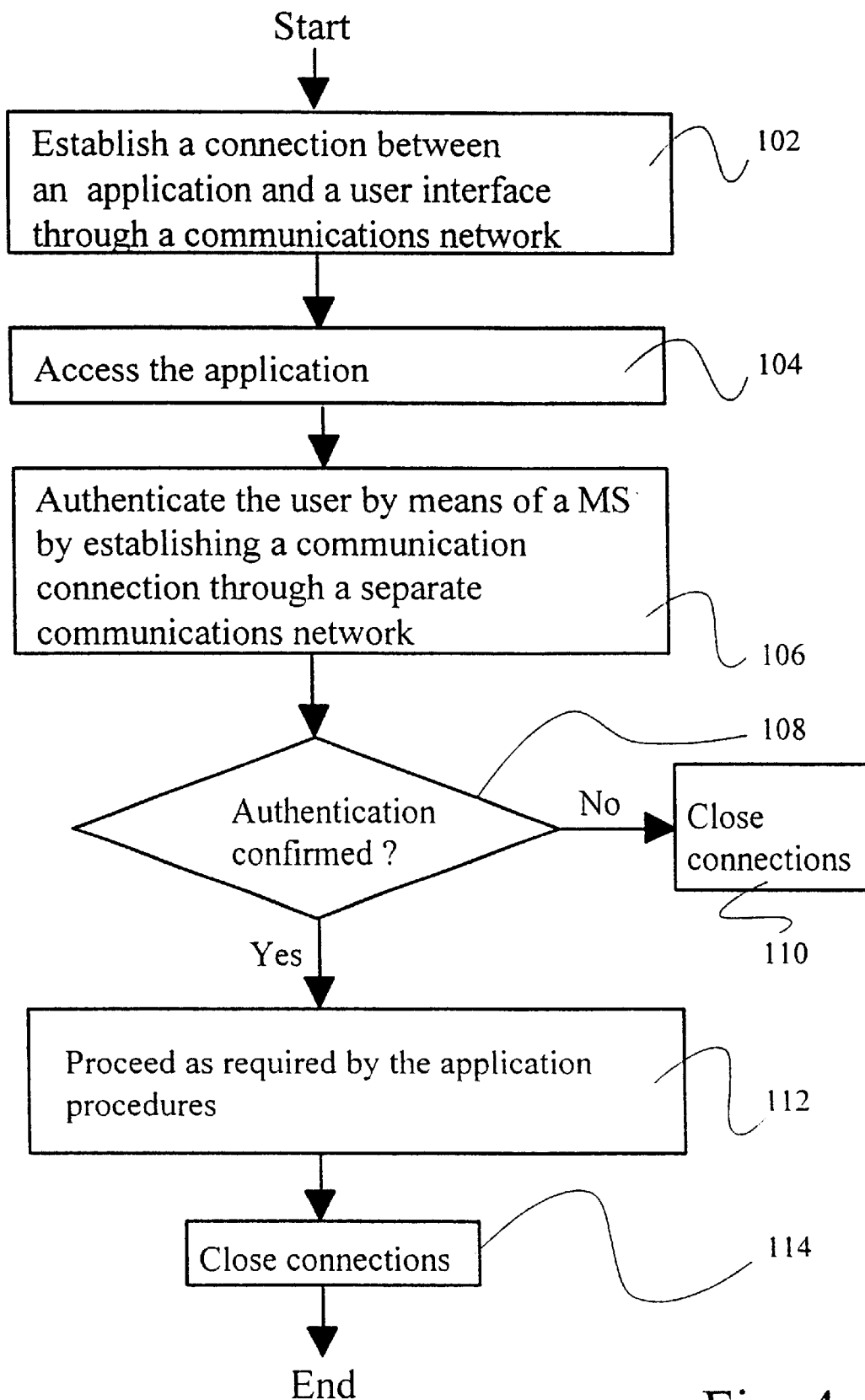


Fig. 4

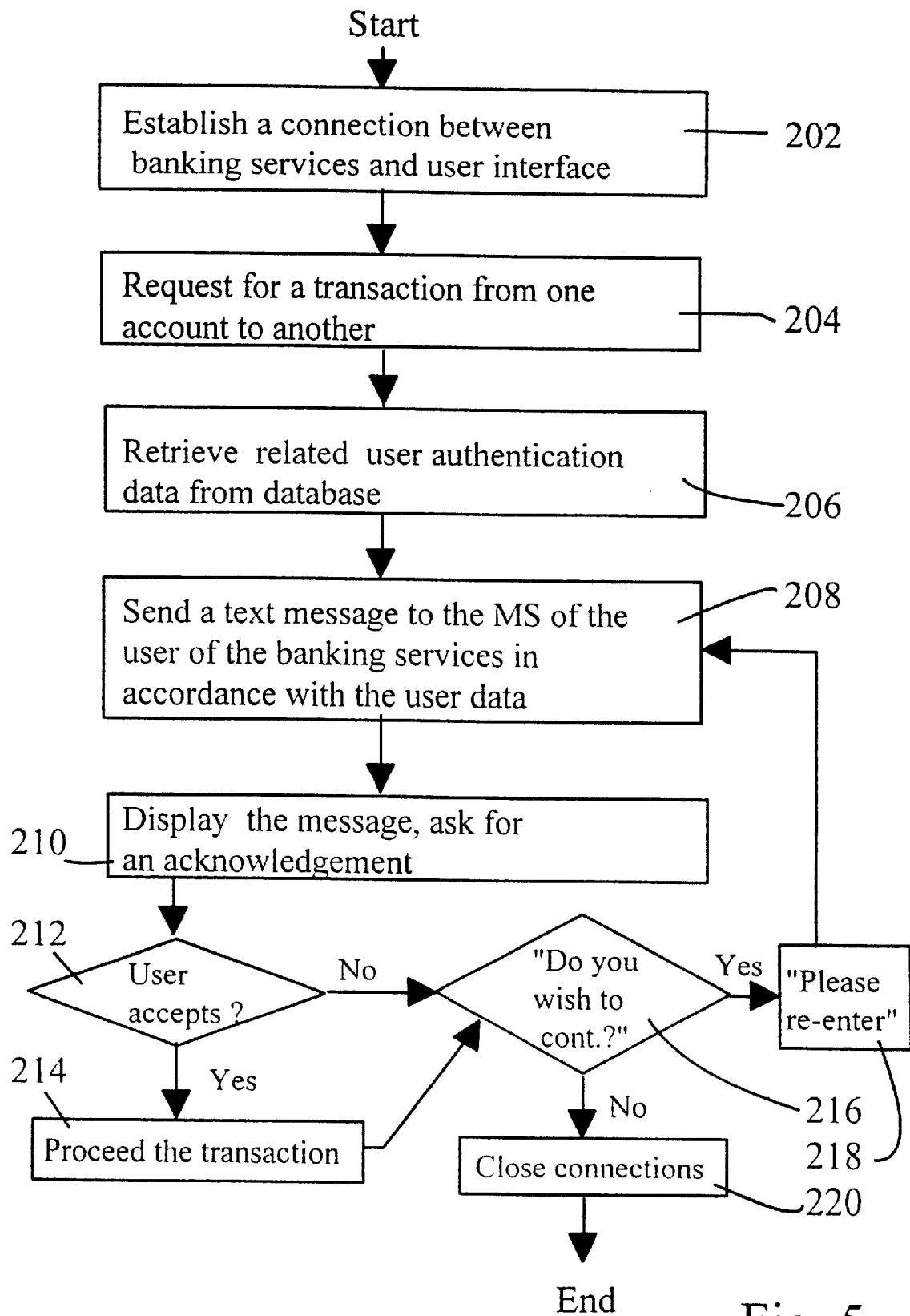


Fig. 5

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