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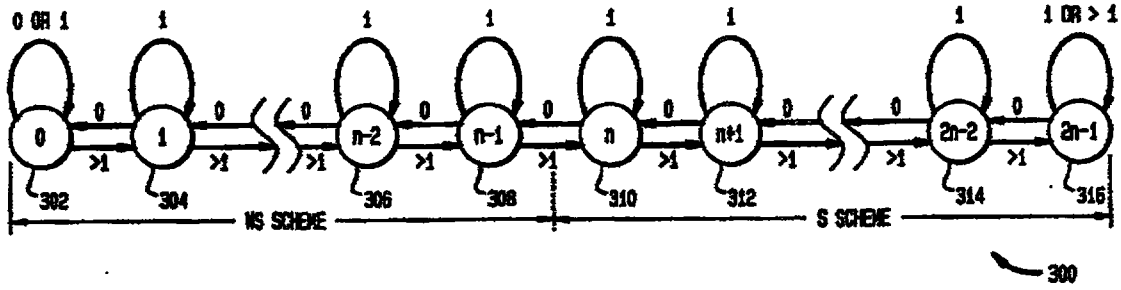
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(54) Title: METHOD FOR ADAPTIVELY SWITCHING BETWEEN PCS AUTHENTICATION SCHEMES



(57) Abstract

The automaton used in the invention has 2n states, running from 0 to 2n-1. When the automaton is between the state 0 (302) and state n-1 (308), the WS authentication scheme is performed. But, when the automaton is between state n (310) and 2n-1 (316), the S authentication scheme is performed. The switching between the authentication schemes increases the efficiency of the overall authentication functions in the mobile communication system thereby reducing the number of database accesses needed to authenticate a registration or a call.