

ABSTRACT

METHOD FOR AUTHENTICATING DATA PACKETS RECEIVED BY A STATION OF A DIGITAL TELECOMMUNICATIONS SYSTEM

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The present invention relates to method (50) of authenticating data packets transmitted by terminals (10) and received by a station (20), each terminal (10) successively transmitting data packets in a plurality of different frequency bands according to a predefined frequency hop sequence specific to said terminal, including, for a data packet received by the station (20), steps of i) (51) measuring the frequency band in which the considered data packet has been received, ii) (52) extracting an identification code from said considered data packet, iii) (55) determining a theoretical frequency hop according to the frequency hop sequence associated with said identification code extracted from the considered data packet, and iv) (56) calculating a frequency hop deviation according to the theoretical frequency hop and to the frequency bands measured for the considered data packet and for the previous data packet. The authentication method (50) further includes a step (58) of determining whether the data packets successively received with a same identification code have been transmitted by the terminal (10) associated with this identification code according to at least one frequency hop deviation.

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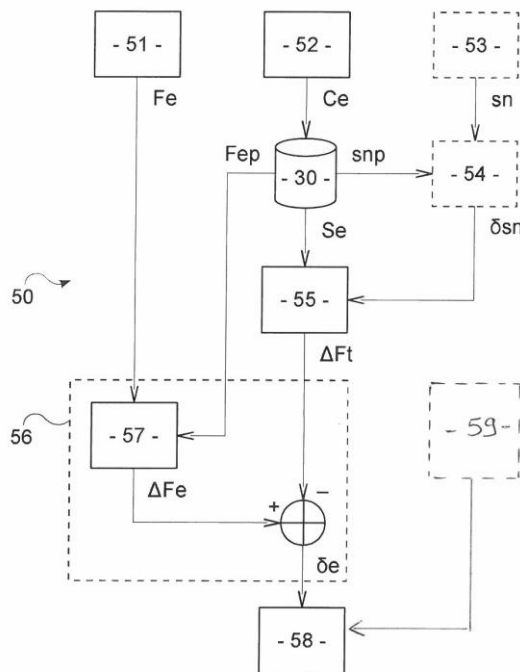


Fig. 2