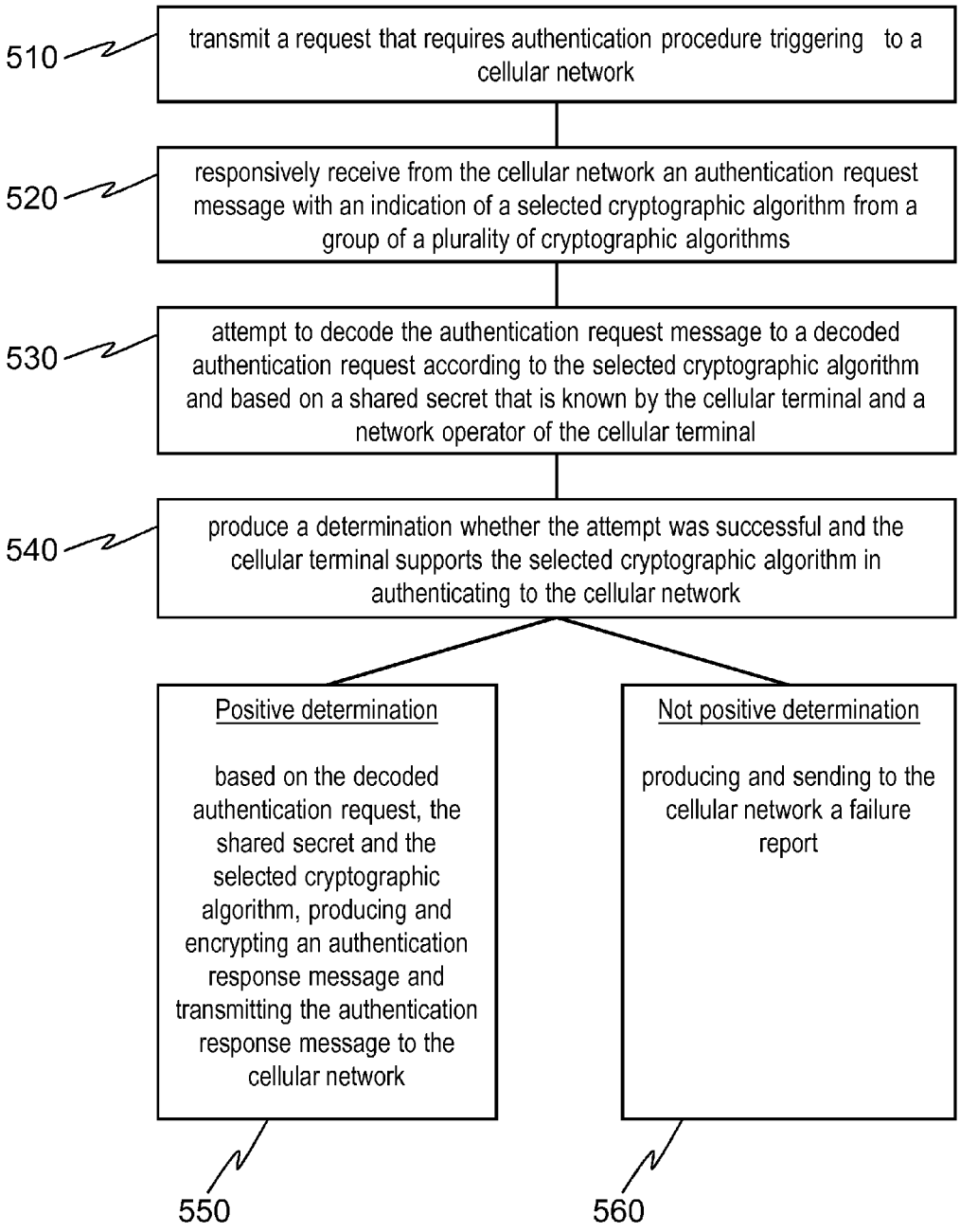
Fig. 5


510
transmit a request that requires authentication procedure triggering to a cellular network
520
responsively receive from the cellular network an authentication request message with an indication of a selected cryptographic algorithm from a group of a plurality of cryptographic algorithms
530
attempt to decode the authentication request message to a decoded authentication request according to the selected cryptographic algorithm and based on a shared secret that is known by the cellular terminal and a network operator of the cellular terminal
540
produce a determination whether the attempt was successful and the cellular terminal supports the selected cryptographic algorithm in authenticating to the cellular network
Positive determination
based on the decoded authentication request, the shared secret and the selected cryptographic algorithm, producing and encrypting an authentication response message and transmitting the authentication response message to the cellular network
Not positive determination
producing and sending to the cellular network a failure report
550
560