

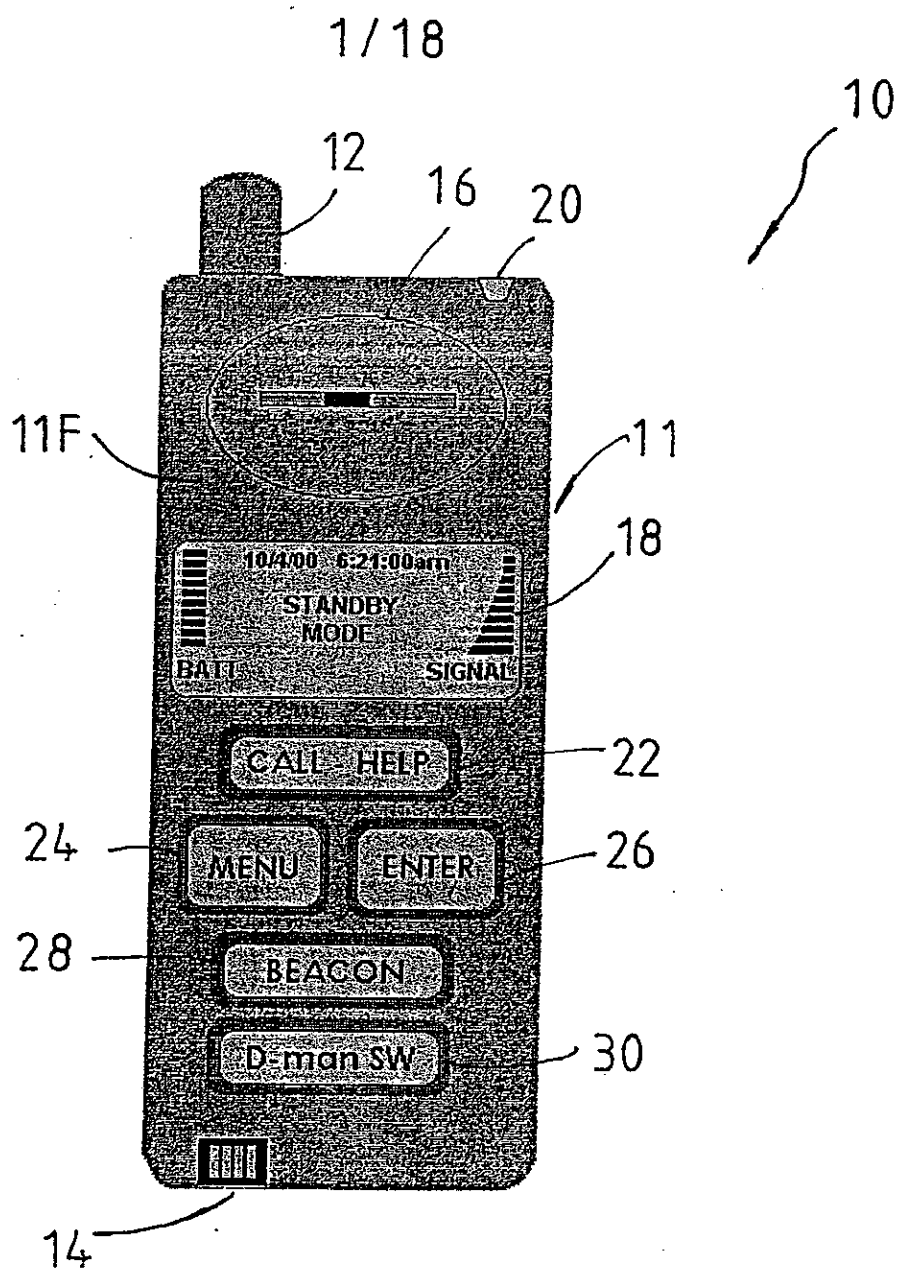


FIG. 1

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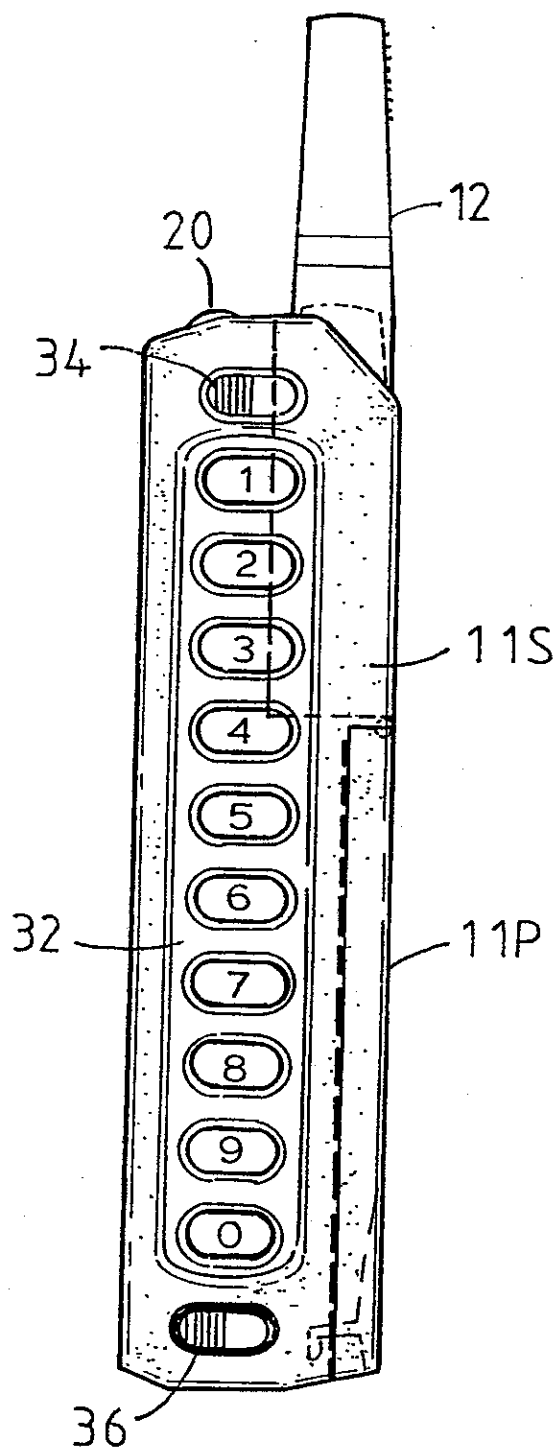


FIG. 2

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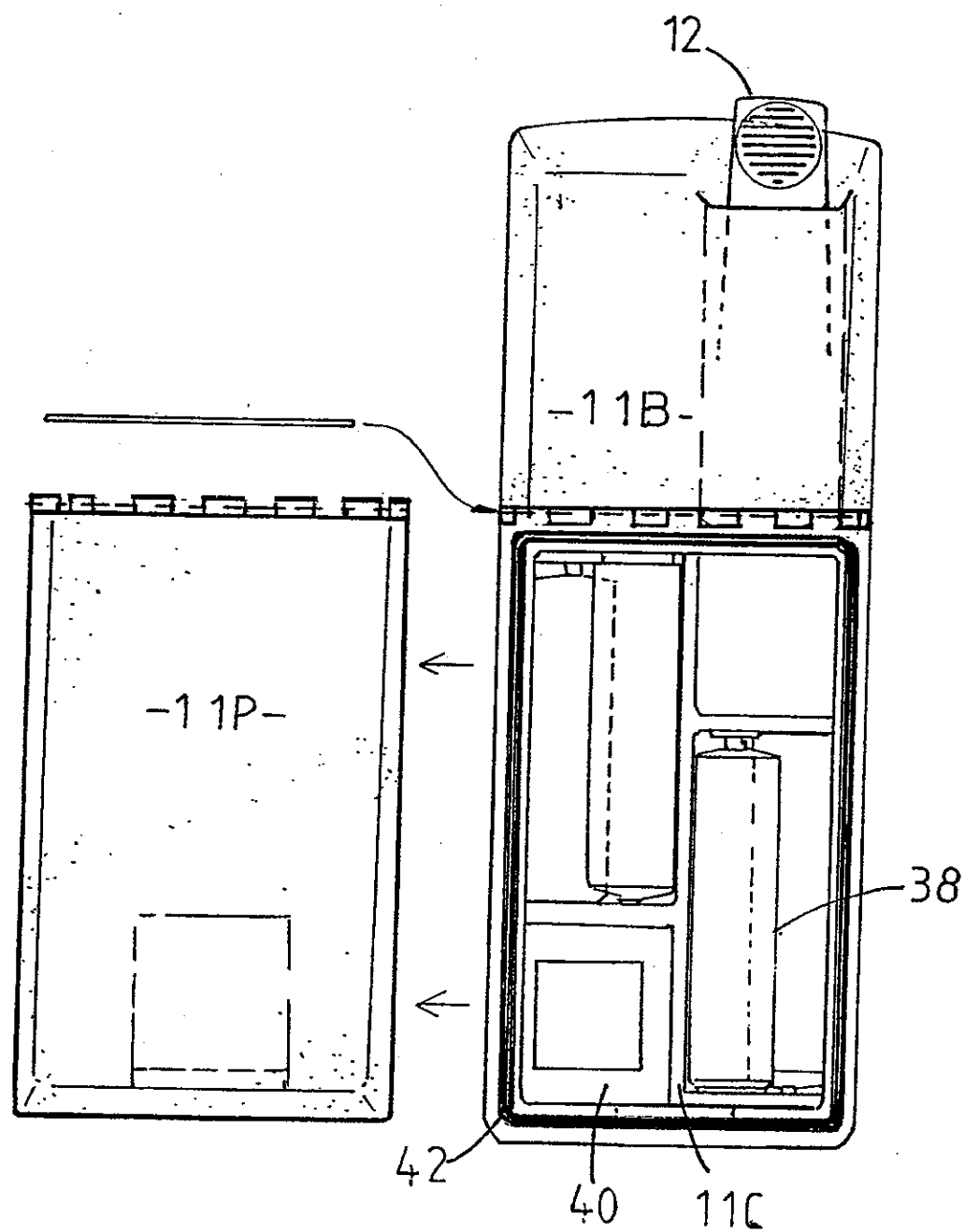


FIG. 3

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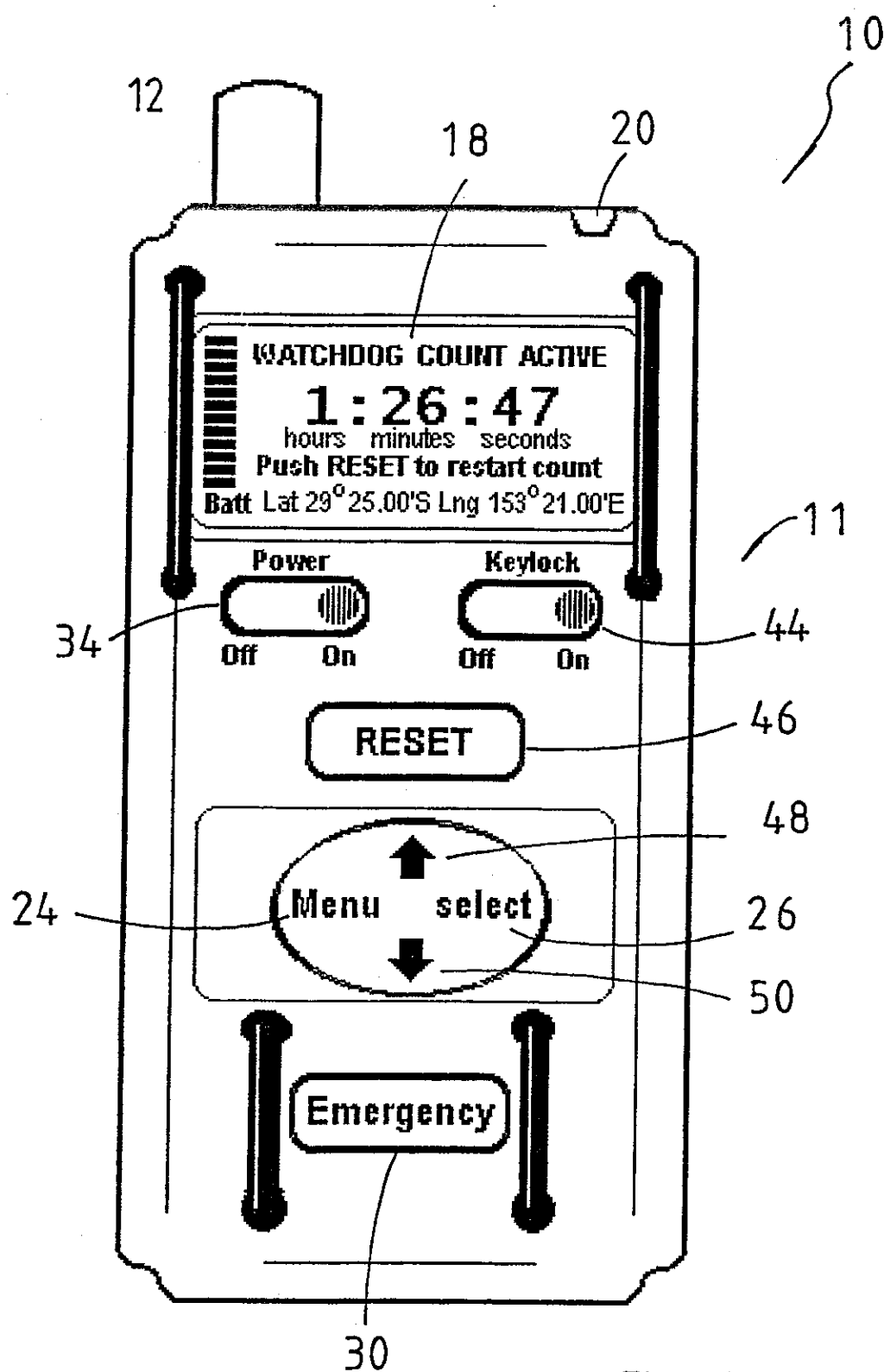
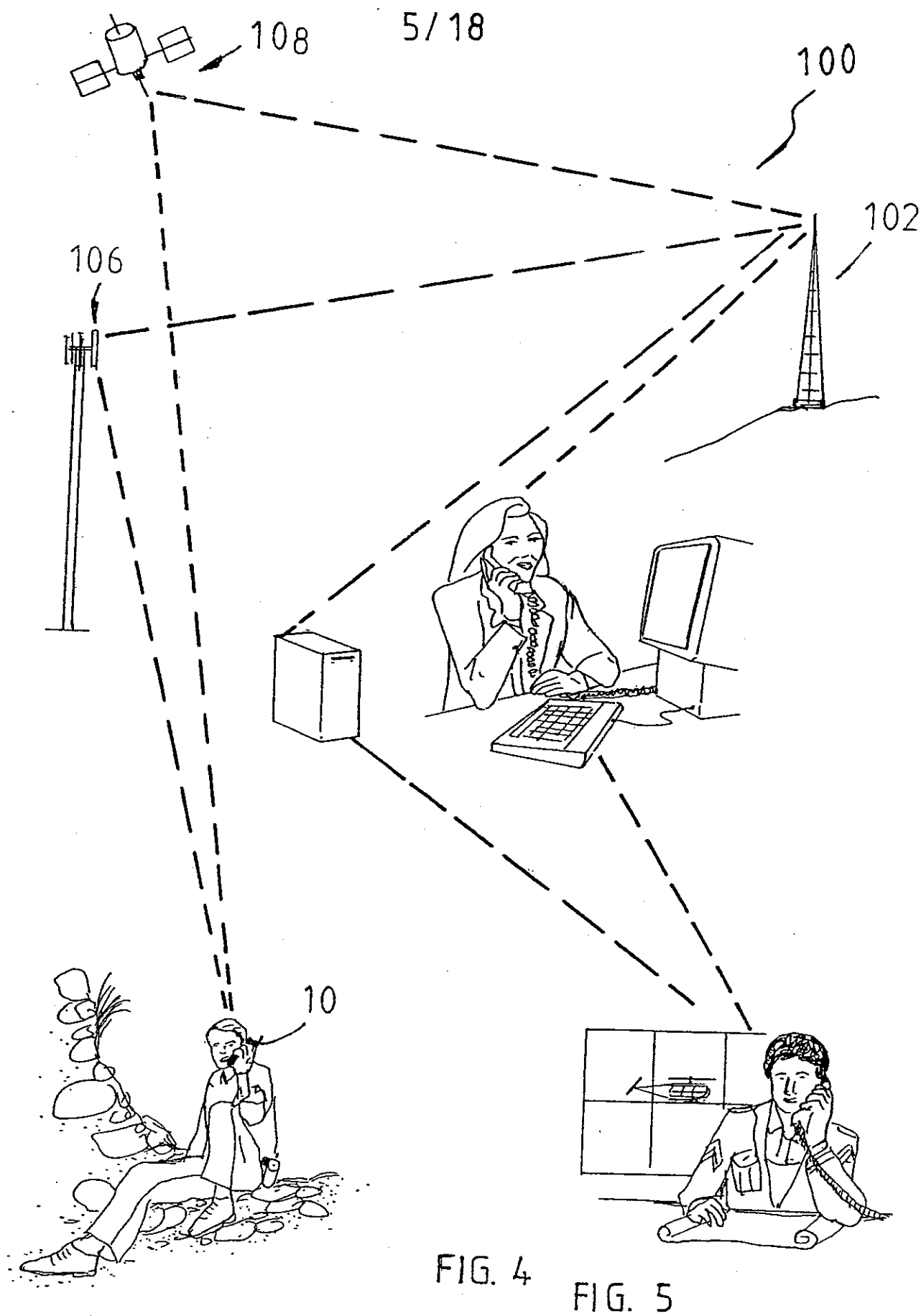


FIG. 4



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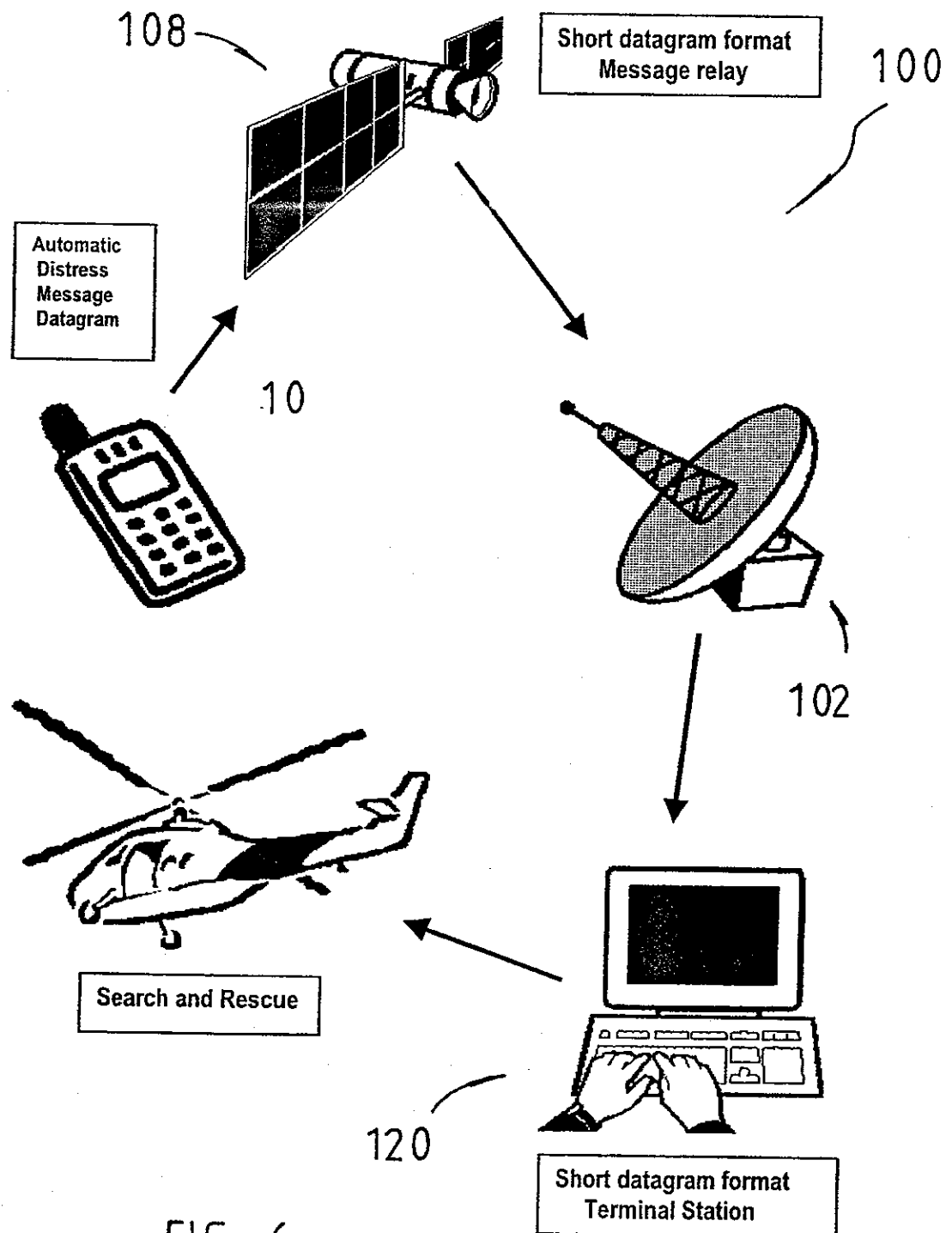
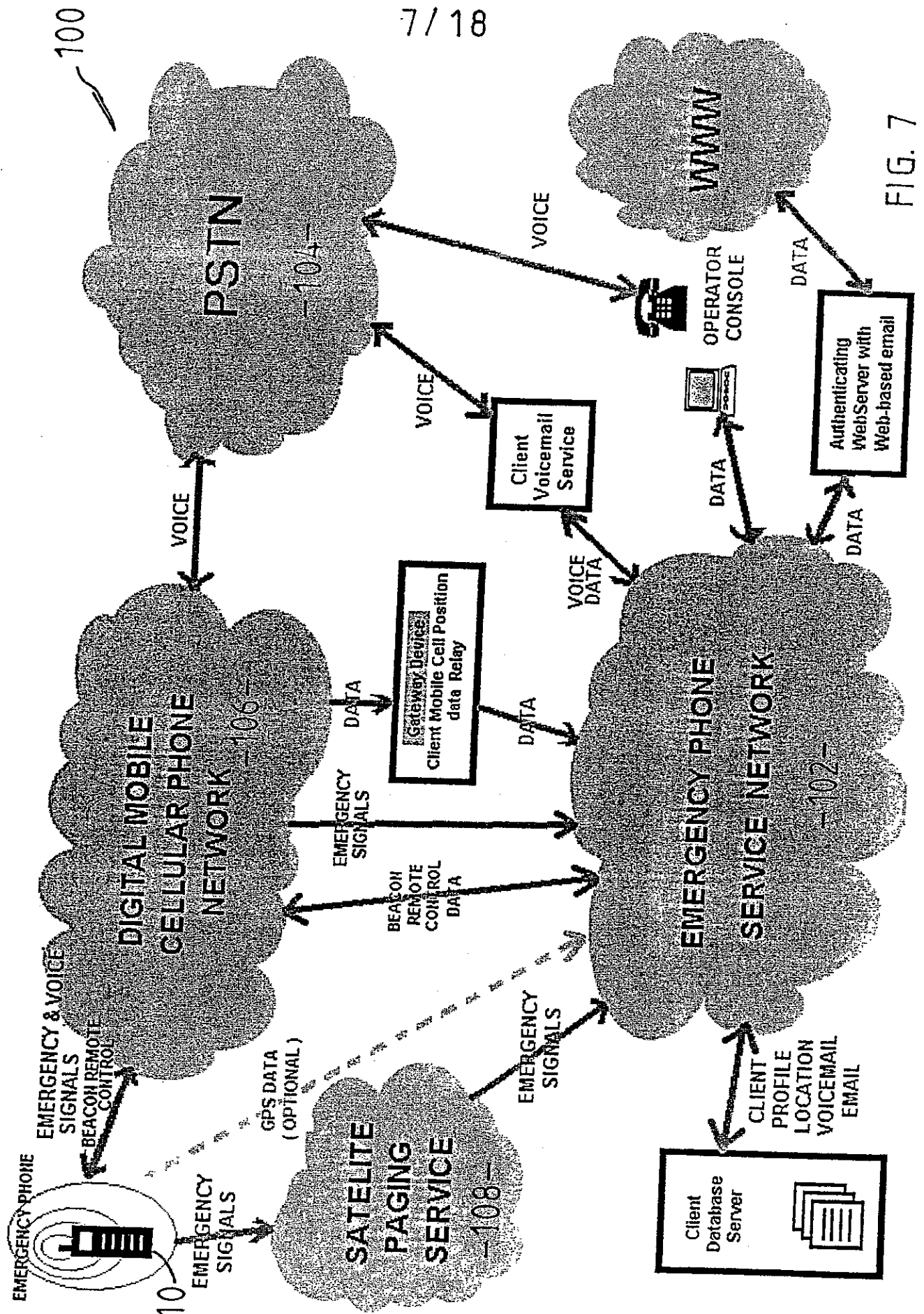


FIG. 6



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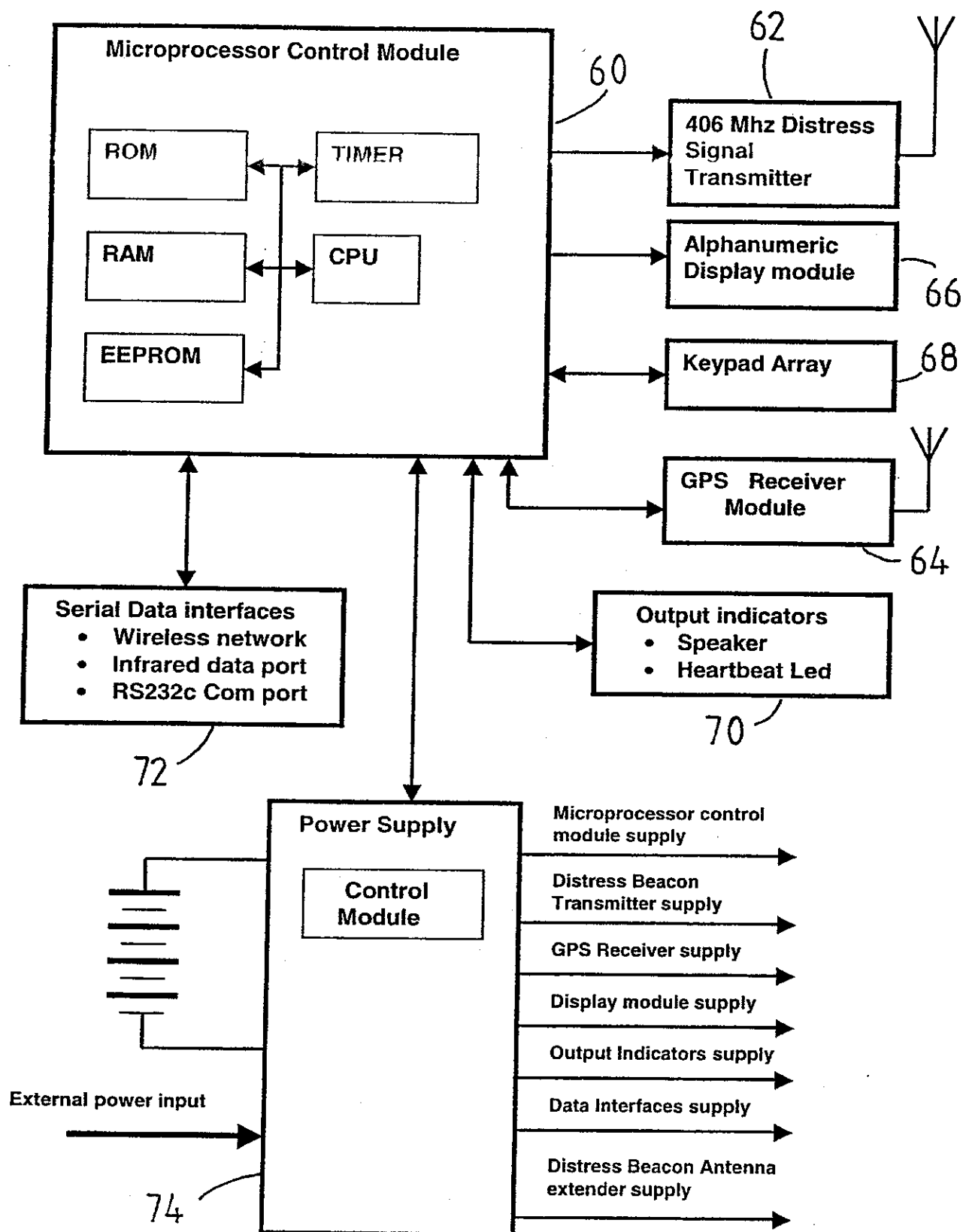


FIG. 8

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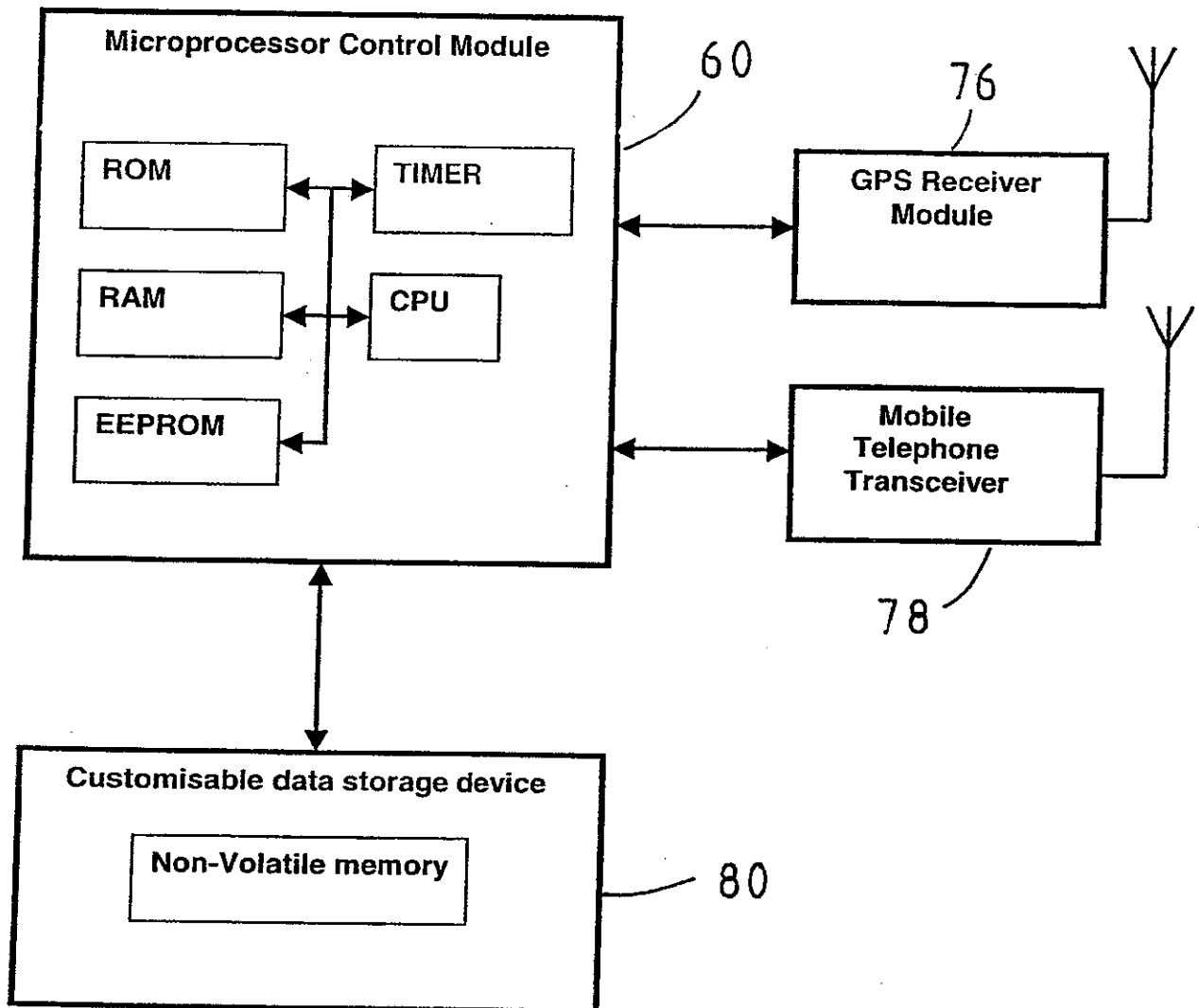


FIG. 9

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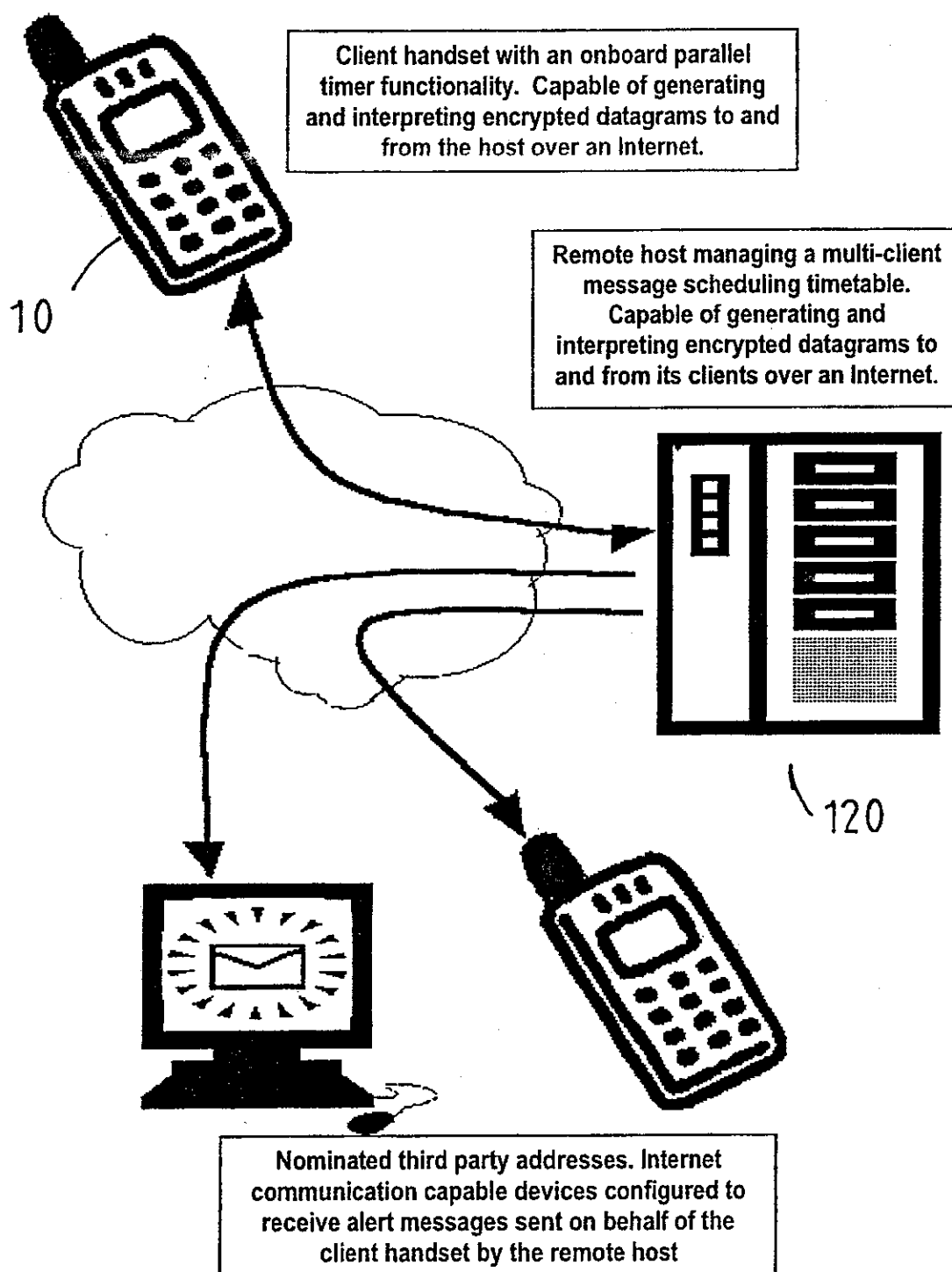


FIG. 10

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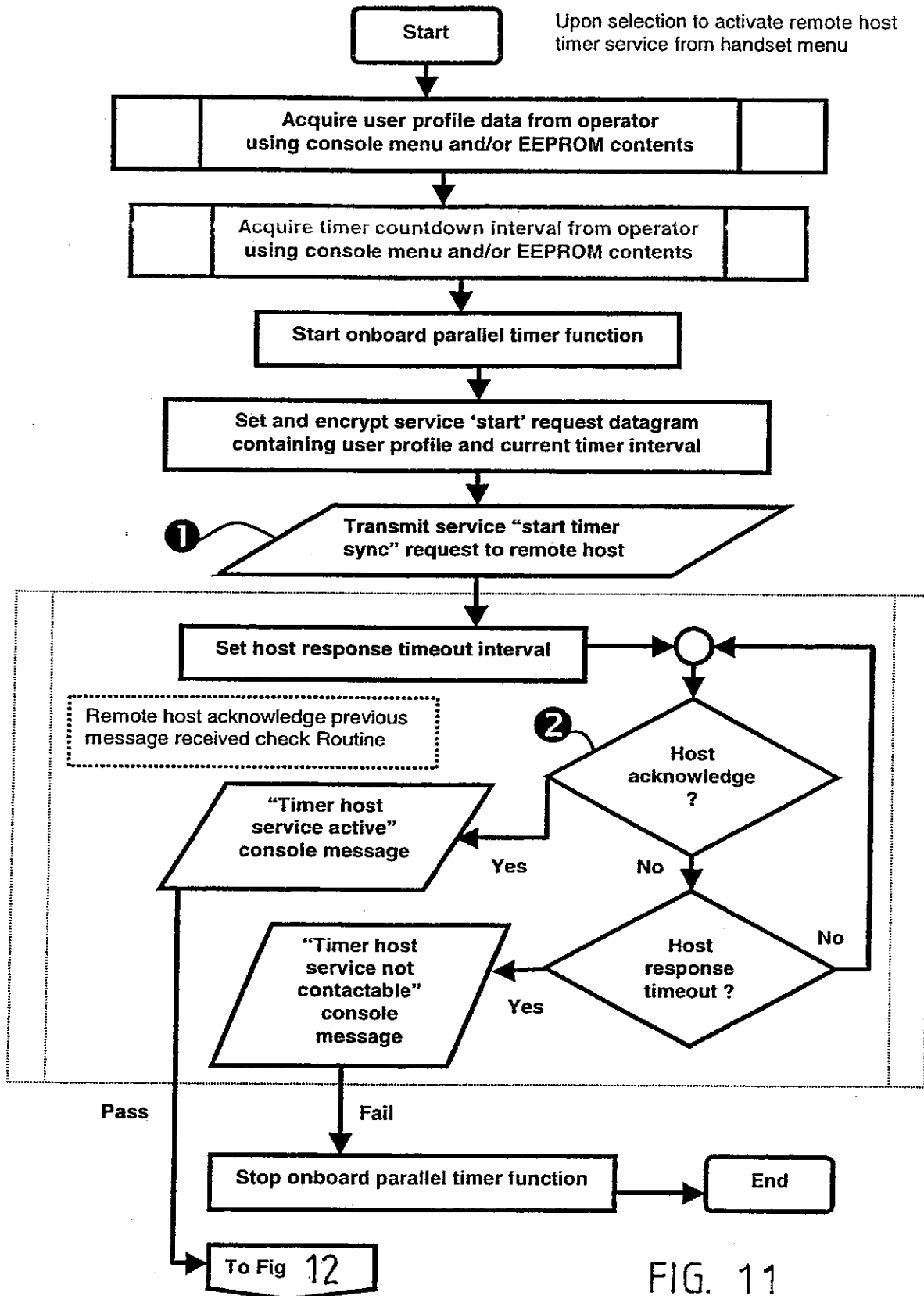


FIG. 11

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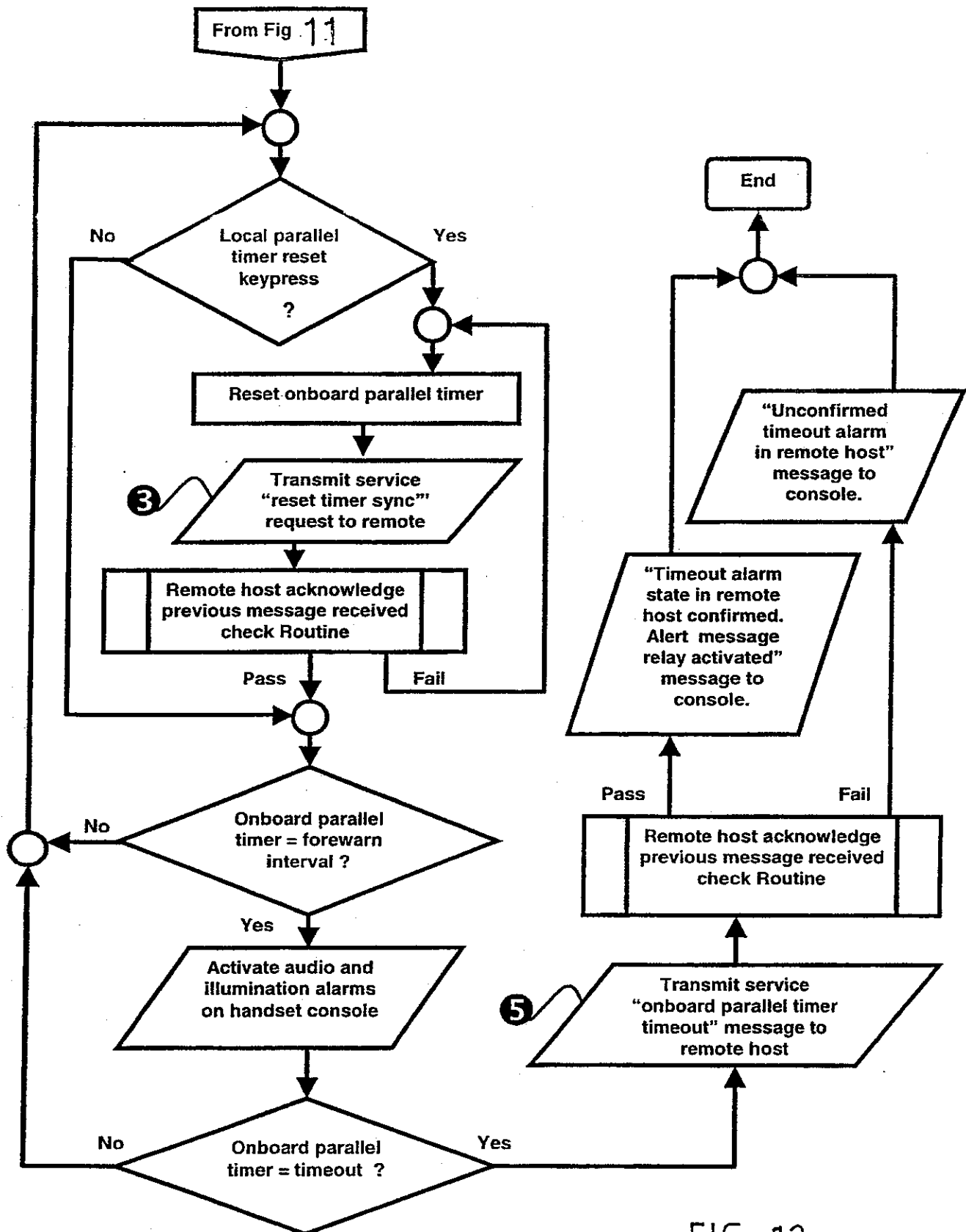


FIG. 12

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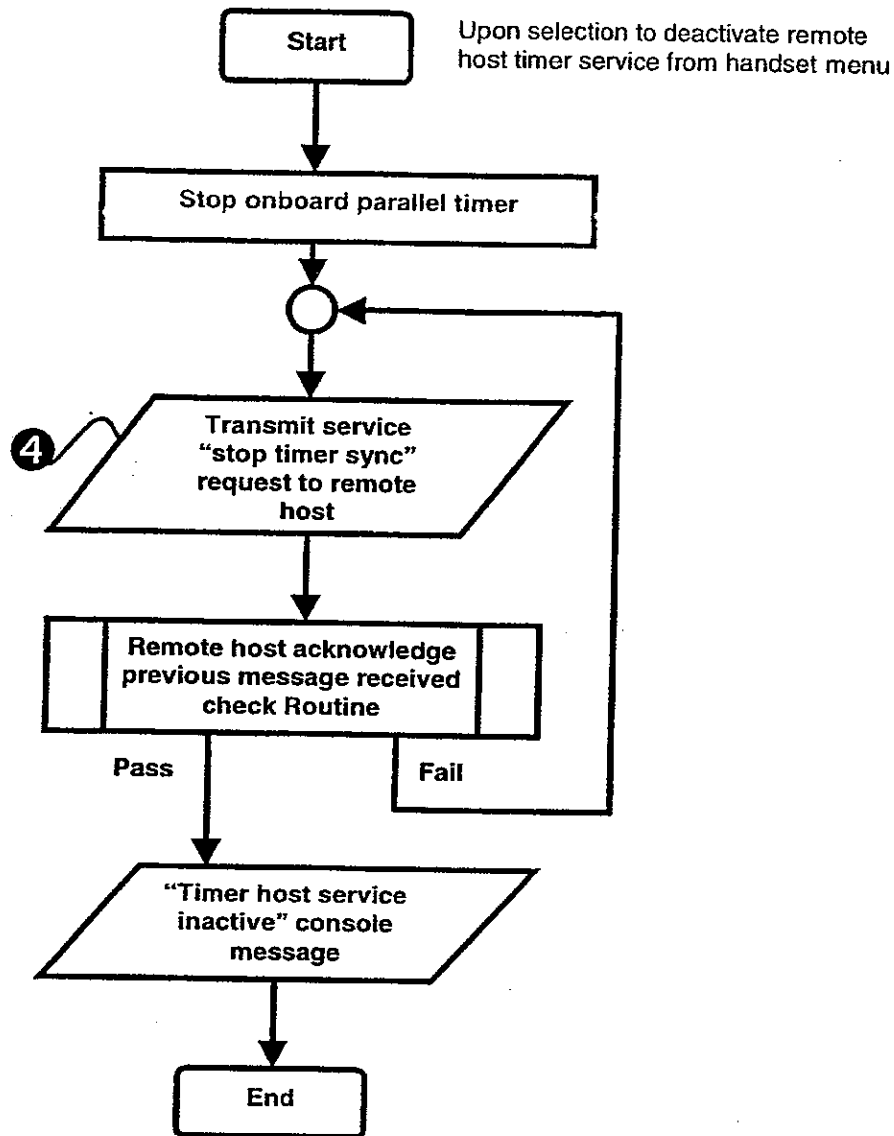


FIG. 13

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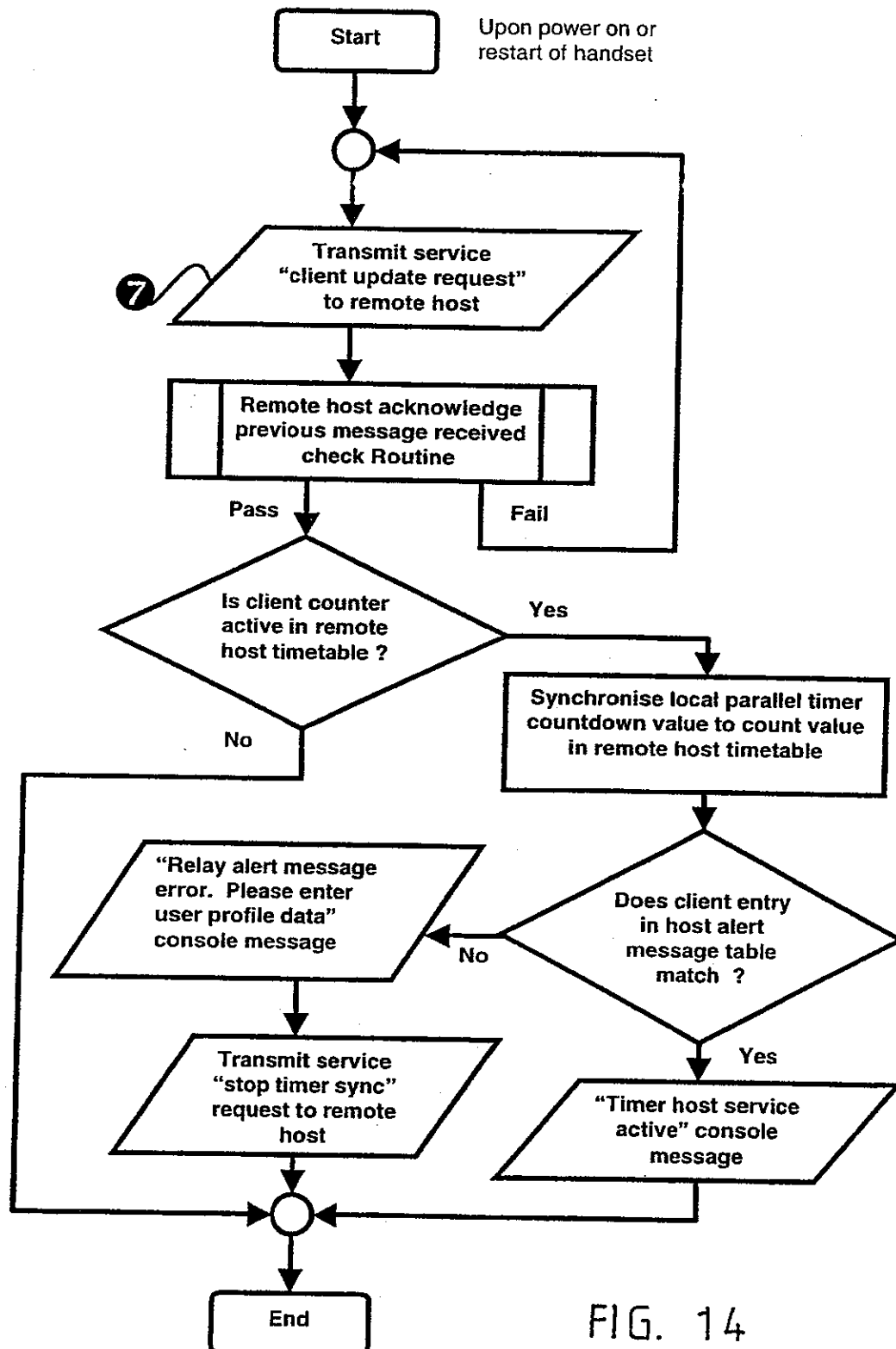


FIG. 14

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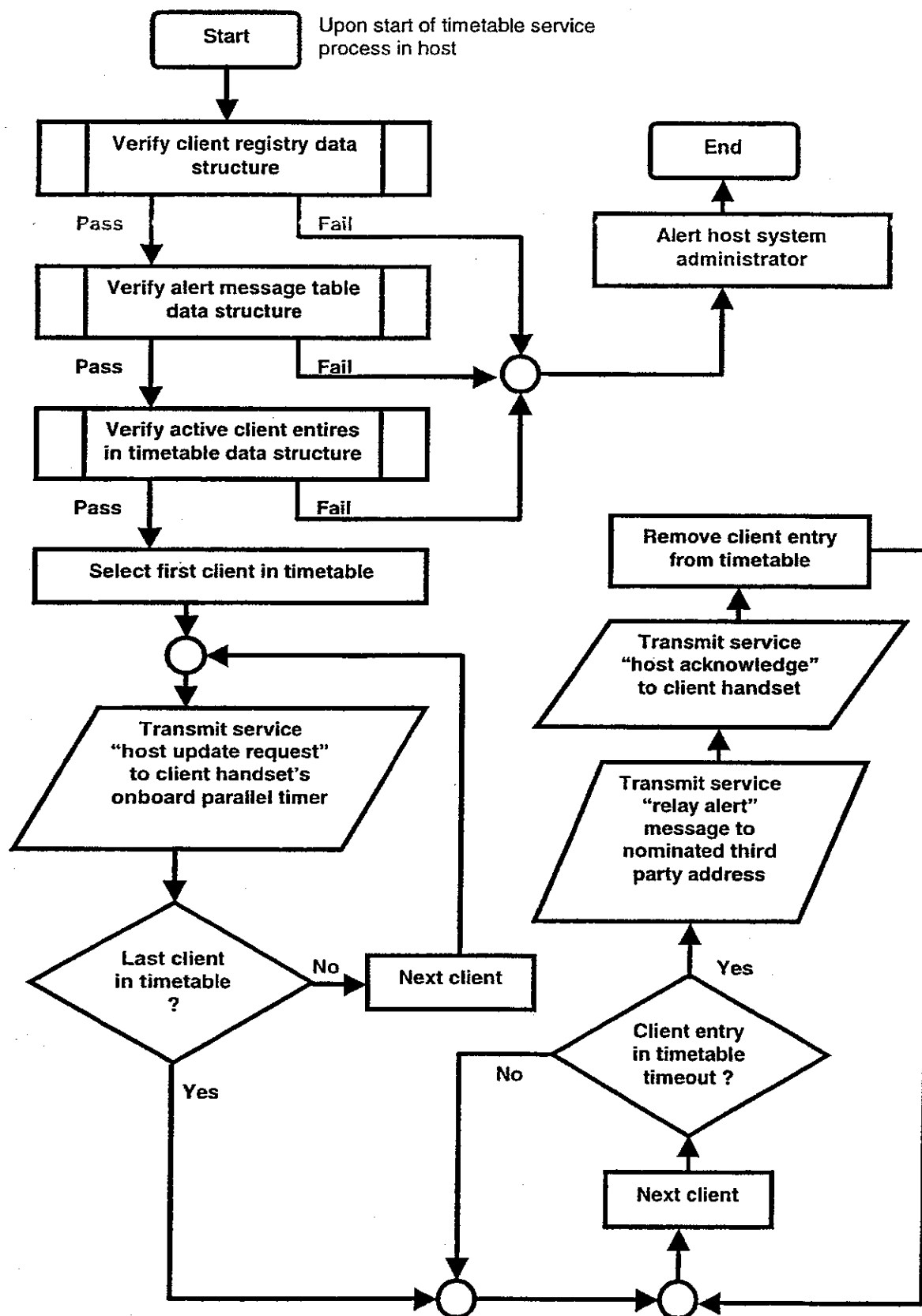


FIG. 15

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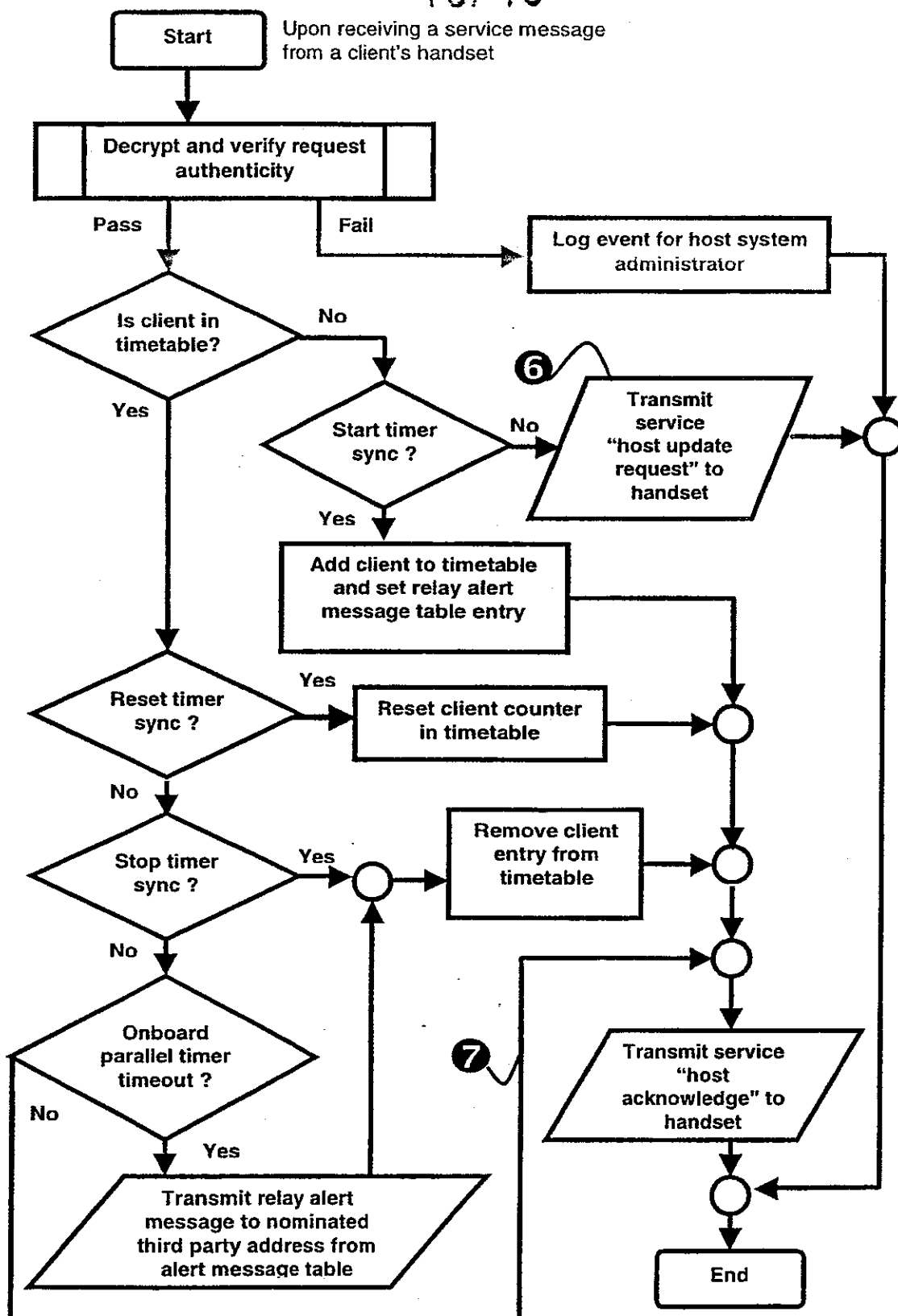


FIG. 16

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Client
HandsetRemote
Host

start timer sync



Client handset sends encrypted authentication data, GPS location data, communication sequence number and the onboard parallel timer's count and start time with respect to 'network' time as reported by other communication protocol layers. This instructs the host to create an entry in the host timetable for the client with a corresponding countdown value adjusted using a 'network' time value to synchronise the counters at both ends. Client profile data is also sent, instructing the host to load the alert message contents including GPS location of the client handset and address of the nominated third party into the host's alert message table.

host acknowledge



Host sends encrypted authentication data, communications sequence number and current client service status. If the client has an active entry in the host timetable the current count value is sent along with 'network' time. The host also reports client's alert message contents and the address of the nominated third party from the alert message table. A history of the last alert message sent to the relay address and a copy of the last datagram received from the client is also included in this datagram.

reset timer sync



Client handset sends encrypted authentication data, GPS location data, communication sequence number and the onboard parallel timer's new count after being reset with respect to 'network' time as reported by other communication protocol layers. This instructs the host to modify the timetable entry for the client to a new corresponding countdown value with an adjustment using 'network' time in attempt to synchronise the counters at both ends. GPS location data for the client handset is updated in the host's alert message table.

stop timer sync



Client handset sends encrypted authentication data and communication sequence number. The client instructs the host to remove both the timetable entry for the client from the host timetable and the alert message contents and address of the nominated third party from the host's alert message table.

FIG. 17

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Client
HandsetRemote
Host

onboard parallel timer timeout

5

Client handset sends encrypted authentication data, GPS location data and communication sequence number. The client informs the host that the handset's onboard parallel timer has reached timeout without being reset. GPS location data for the client handset is updated in the host's alert message table.

host update request

6

Host sends encrypted authentication data, communications sequence number and requests the client handset report the running status of its onboard parallel timer with by either replying with a "start timer sync" datagram if running or a "stop timer sync" datagram if the handset onboard parallel timer is not running.

client update request

7

Client handset sends encrypted authentication data, GPS location data, communication sequence number and requests the host reply with a "host acknowledge" datagram. GPS location data for the client handset is updated in the host's alert message table.

FIG. 18