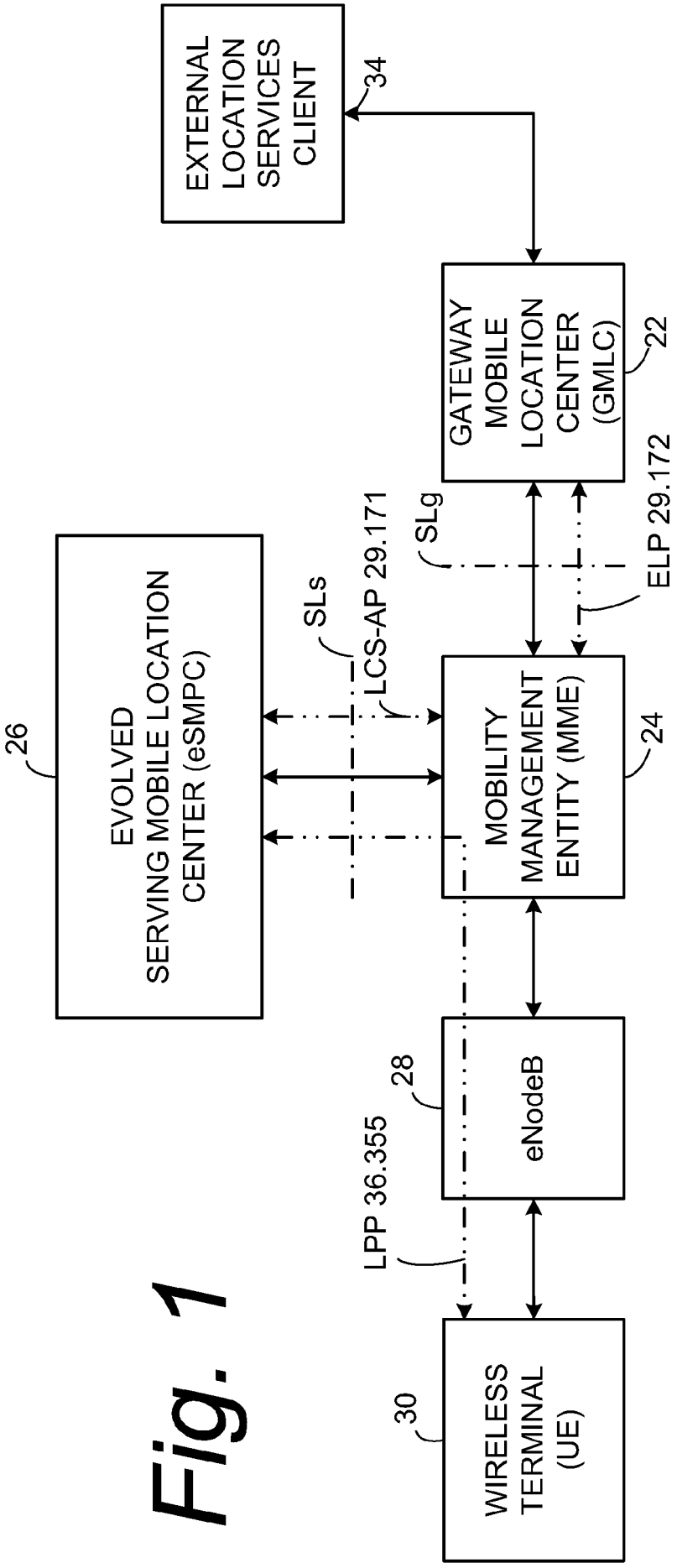

EXTERNAL LOCATION SERVICES CLIENT
34
GATEWAY MOBILE LOCATION CENTER (GMLC)
22
SLg
ELP 29.172
LCS-AP 29.171
SLs
EVOLVED SERVING MOBILE LOCATION CENTER (eSMPC)
26
MOBILITY MANAGEMENT ENTITY (MME)
24
28
eNodeB
LPP 36.355
30
WIRELESS TERMINAL (UE)

Fig. 1

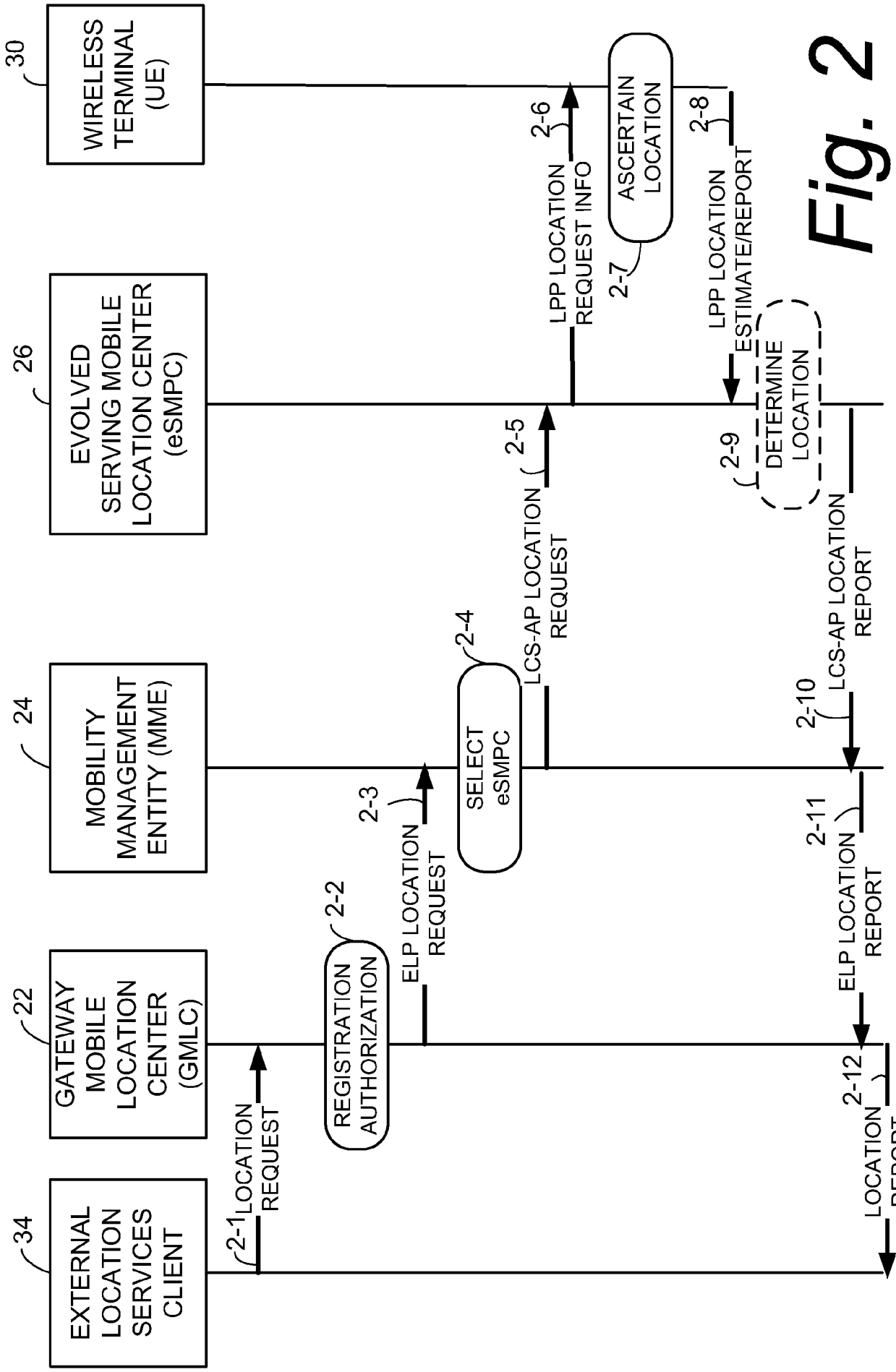

30
WIRELESS TERMINAL (UE)
26
EVOLVED SERVING MOBILE LOCATION CENTER (eSMPC)
24
MOBILITY MANAGEMENT ENTITY (MME)
22
GATEWAY MOBILE LOCATION CENTER (GMLC)
34
EXTERNAL LOCATION SERVICES CLIENT
2-1 LOCATION REQUEST
2-2 REGISTRATION AUTHORIZATION
2-3 ELP LOCATION REQUEST
2-4 SELECT eSMPC
2-5 LCS-AP LOCATION REQUEST
2-6 LPP LOCATION REQUEST INFO
2-7 ASCERTAIN LOCATION
2-8 LPP LOCATION ESTIMATE/REPORT
2-9 DETERMINE LOCATION
2-10 LCS-AP LOCATION REPORT
2-11 ELP LOCATION REPORT
2-12 LOCATION REPORT

Fig. 2

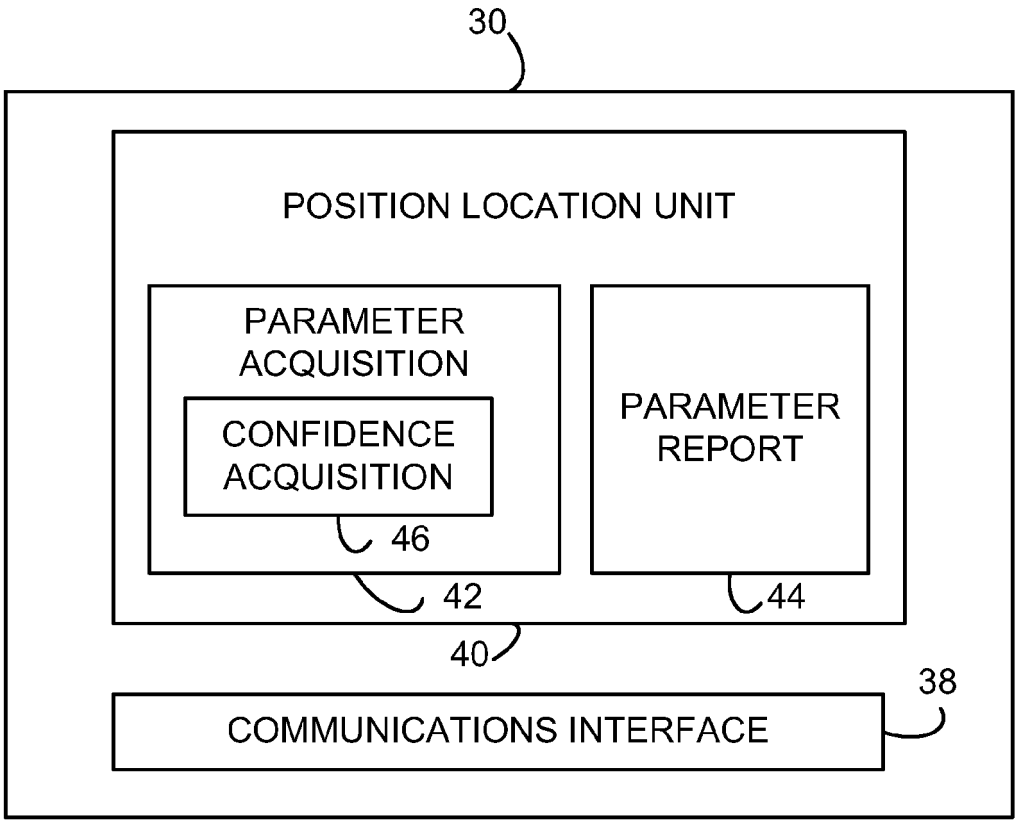

30
POSITION LOCATION UNIT
PARAMETER ACQUISITION
CONFIDENCE ACQUISITION
46
PARAMETER REPORT
42
44
40
38
COMMUNICATIONS INTERFACE

Fig. 3

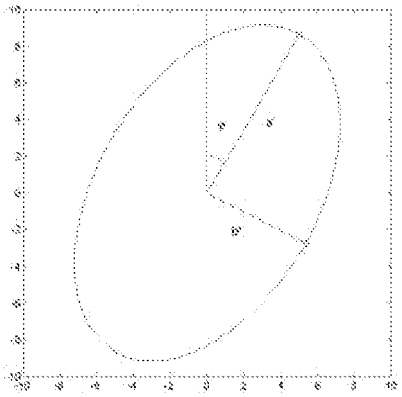


Fig. 14

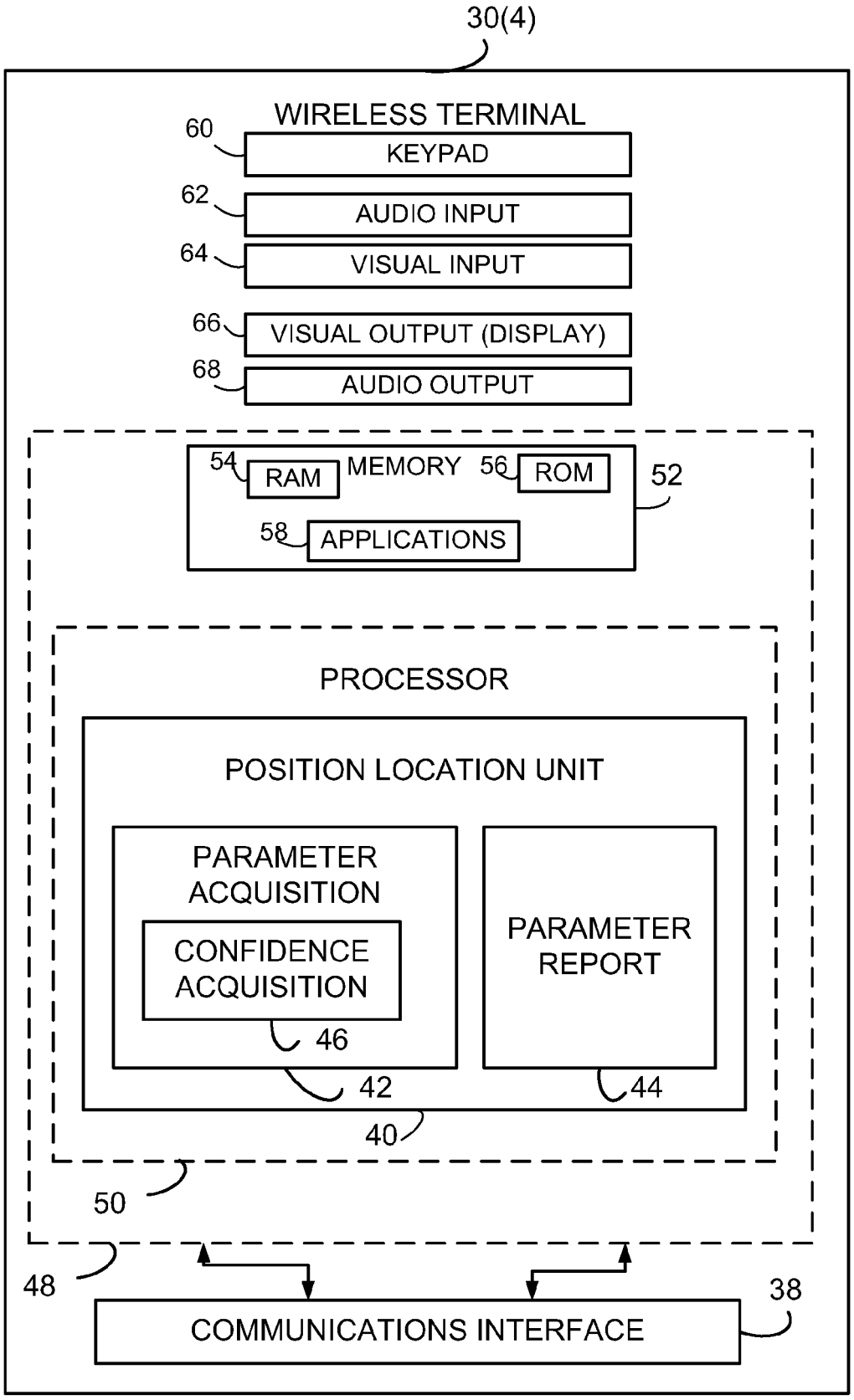

30(4)
WIRELESS TERMINAL
60
KEYPAD
62
AUDIO INPUT
64
VISUAL INPUT
66
VISUAL OUTPUT (DISPLAY)
68
AUDIO OUTPUT
54
RAM
MEMORY
56
ROM
52
58
APPLICATIONS
PROCESSOR
POSITION LOCATION UNIT
PARAMETER ACQUISITION
CONFIDENCE ACQUISITION
46
PARAMETER REPORT
42
44
40
50
48
38
COMMUNICATIONS INTERFACE

Fig. 4

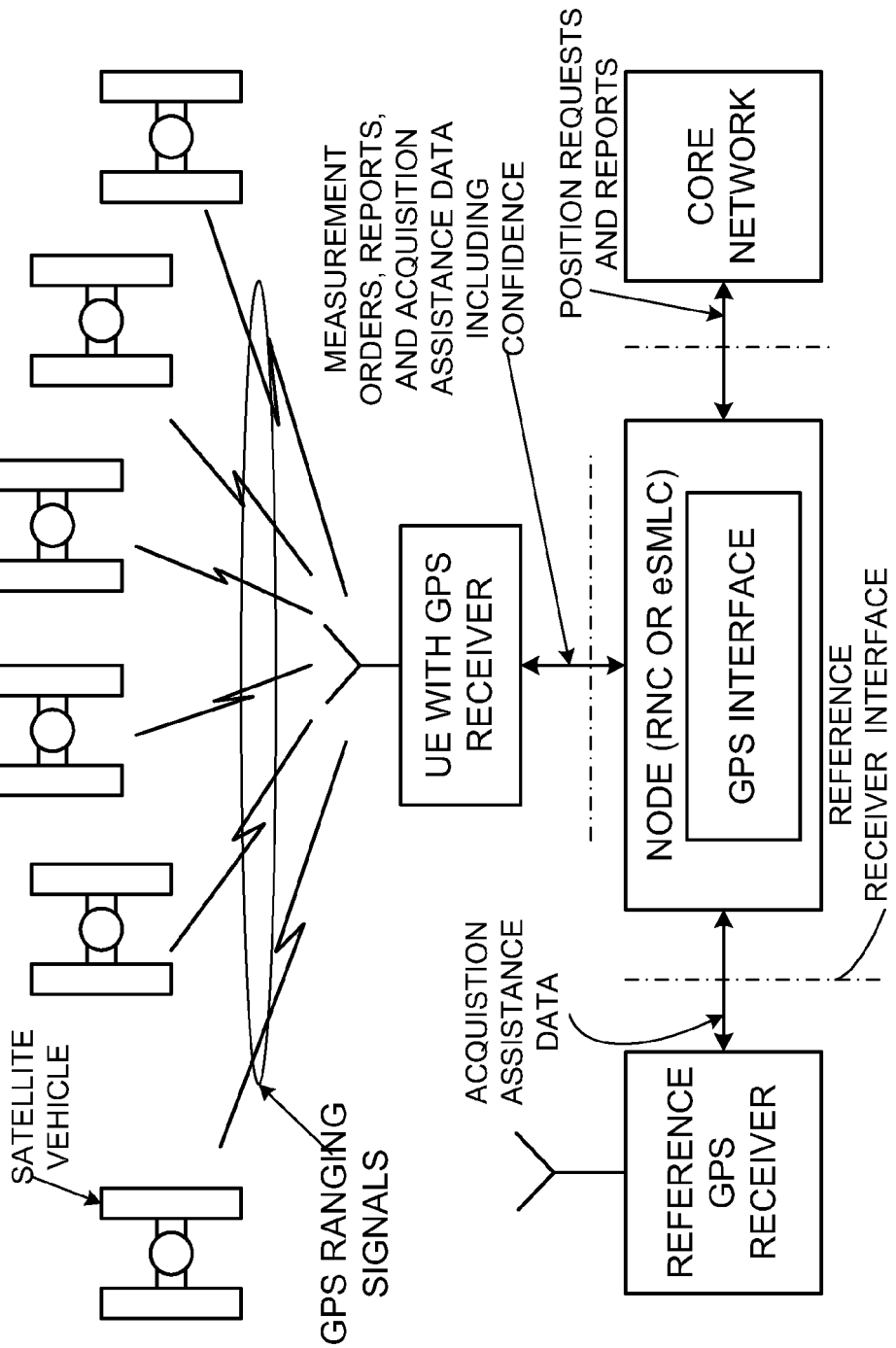

SATELLITE VEHICLE
GPS RANGING SIGNALS
MEASUREMENT ORDERS, REPORTS, AND ACQUISITION ASSISTANCE DATA INCLUDING CONFIDENCE
UE WITH GPS RECEIVER
POSITION REQUESTS AND REPORTS
CORE NETWORK
NODE (RNC OR eSMLC)
GPS INTERFACE
REFERENCE RECEIVER INTERFACE
ACQUISTION ASSISTANCE DATA
REFERENCE GPS RECEIVER

Fig. 5

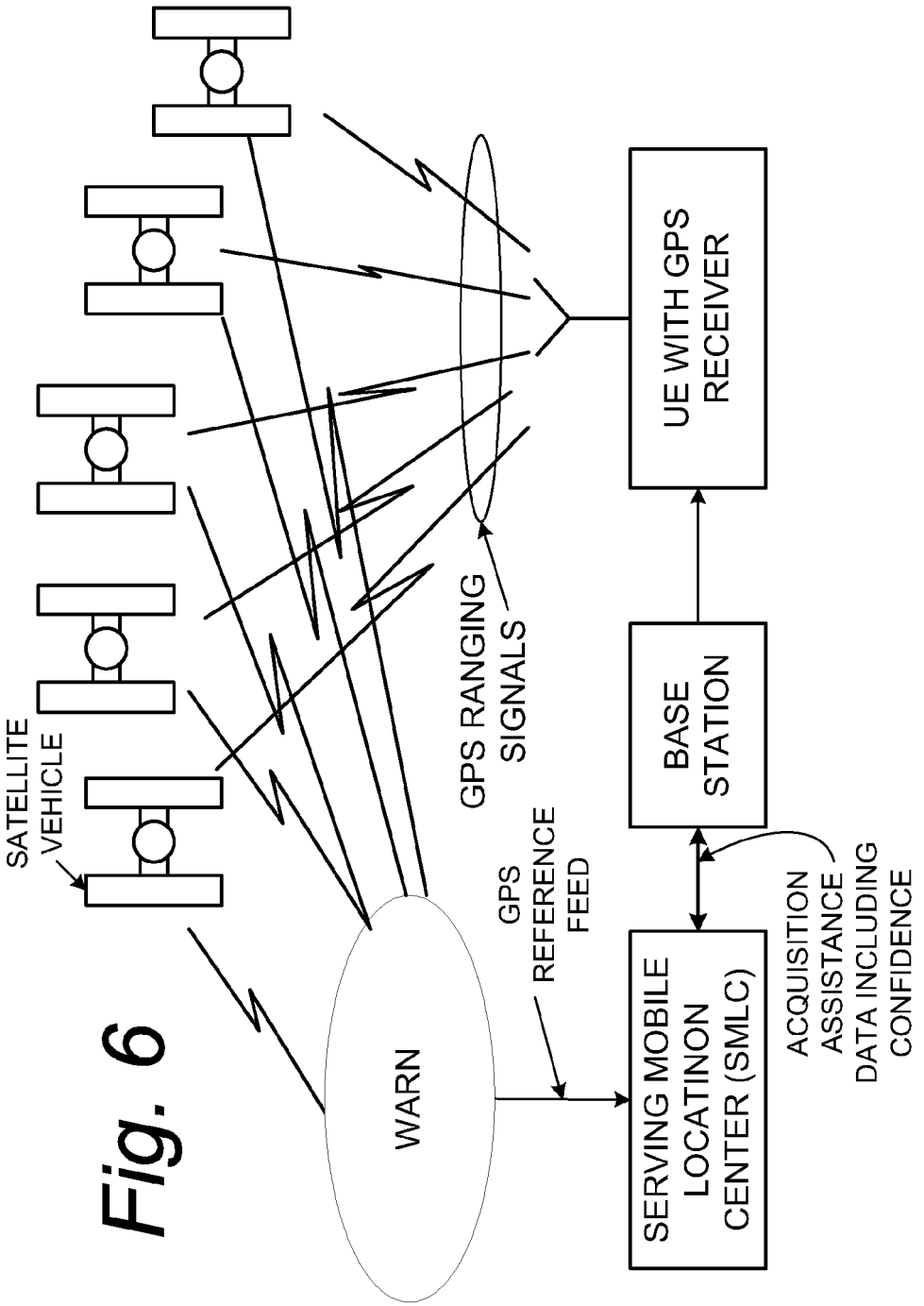

SATELLITE VEHICLE
GPS RANGING SIGNALS
UE WITH GPS RECEIVER
BASE STATION
WARN
GPS REFERENCE FEED
SERVING MOBILE LOCATINON CENTER (SMLC)
ACQUISITION ASSISTANCE DATA INCLUDING CONFIDENCE

Fig. 6

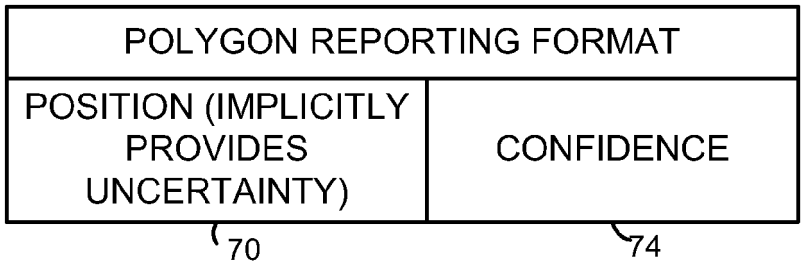


Fig. 7A

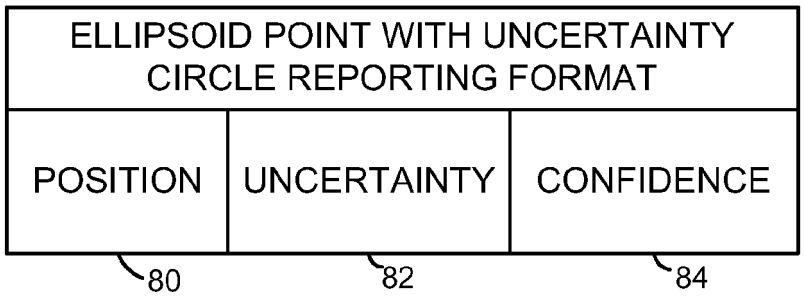


Fig. 7B

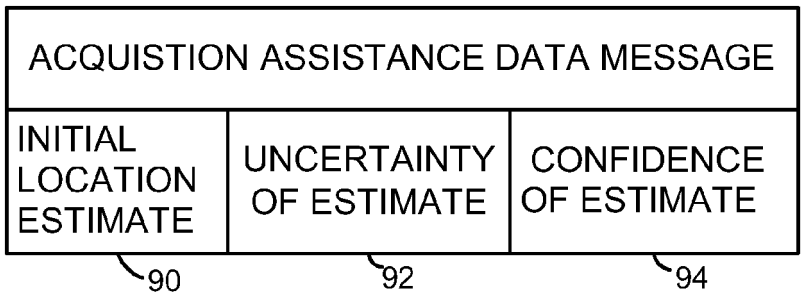


Fig. 7C

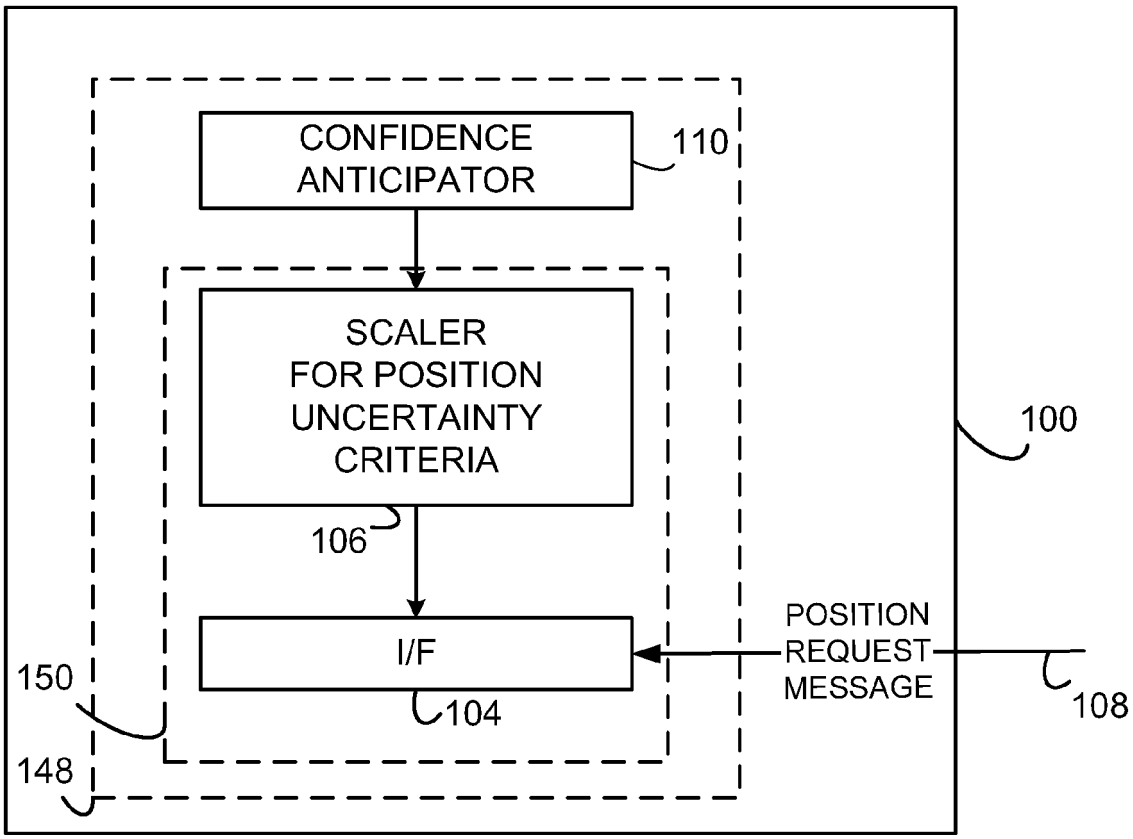

CONFIDENCE ANTICIPATOR
110
SCALER FOR POSITION UNCERTAINTY CRITERIA
106
I/F
104
150
148
100
POSITION REQUEST MESSAGE
108

Fig. 8

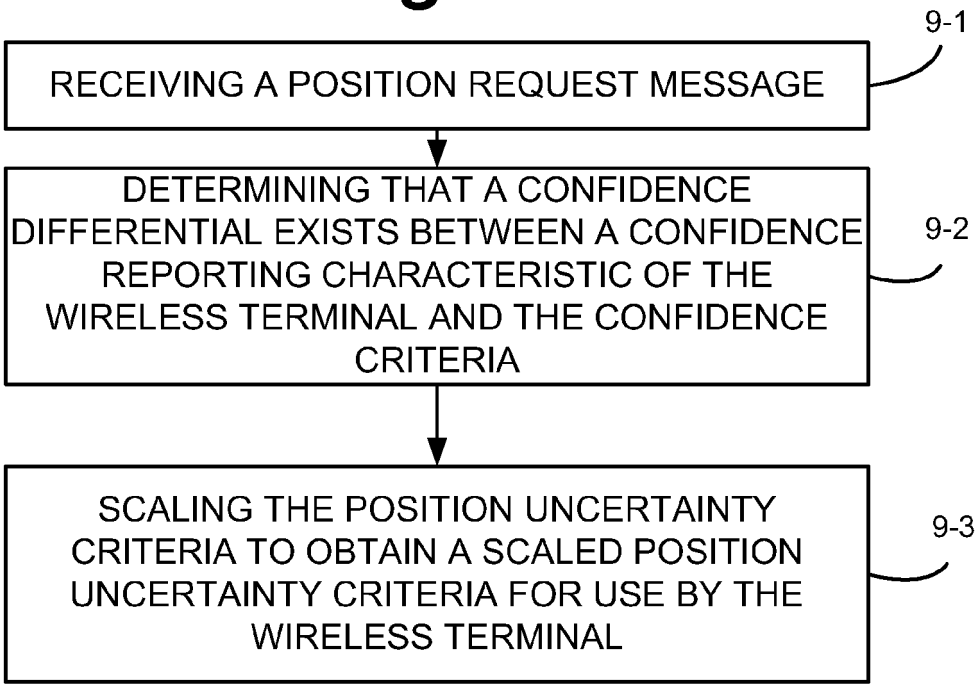

RECEIVING A POSITION REQUEST MESSAGE
9-1
DETERMINING THAT A CONFIDENCE DIFFERENTIAL EXISTS BETWEEN A CONFIDENCE REPORTING CHARACTERISTIC OF THE WIRELESS TERMINAL AND THE CONFIDENCE CRITERIA
9-2
SCALING THE POSITION UNCERTAINTY CRITERIA TO OBTAIN A SCALED POSITION UNCERTAINTY CRITERIA FOR USE BY THE WIRELESS TERMINAL
9-3

Fig. 9

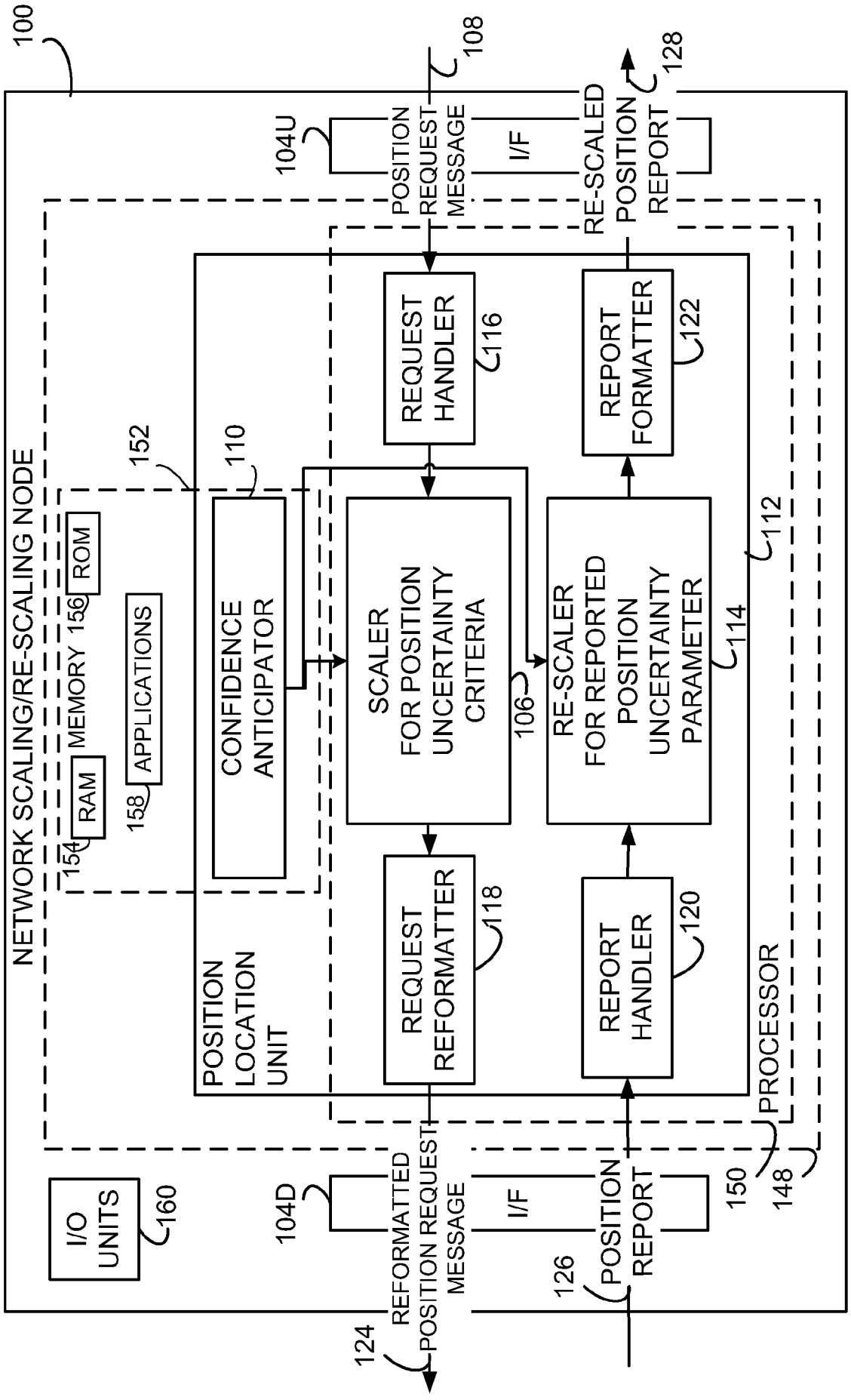

100
NETWORK SCALING/RE-SCALING NODE
108
POSITION REQUEST MESSAGE
104U
I/F
128
RE-SCALED POSITION REPORT
REQUEST HANDLER
116
REPORT FORMATTER
122
152
110
CONFIDENCE ANTICIPATOR
SCALER FOR POSITION UNCERTAINTY CRITERIA
106
RE-SCALER FOR REPORTED POSITION UNCERTAINTY PARAMETER
114
112
MEMORY
156
ROM
154
RAM
158
APPLICATIONS
POSITION LOCATION UNIT
REQUEST REFORMATTER
118
REPORT HANDLER
120
PROCESSOR
I/O UNITS
160
104D
I/F
REFORMATTED POSITION REQUEST MESSAGE
POSITION REPORT
126
124
150
148

Fig. 10

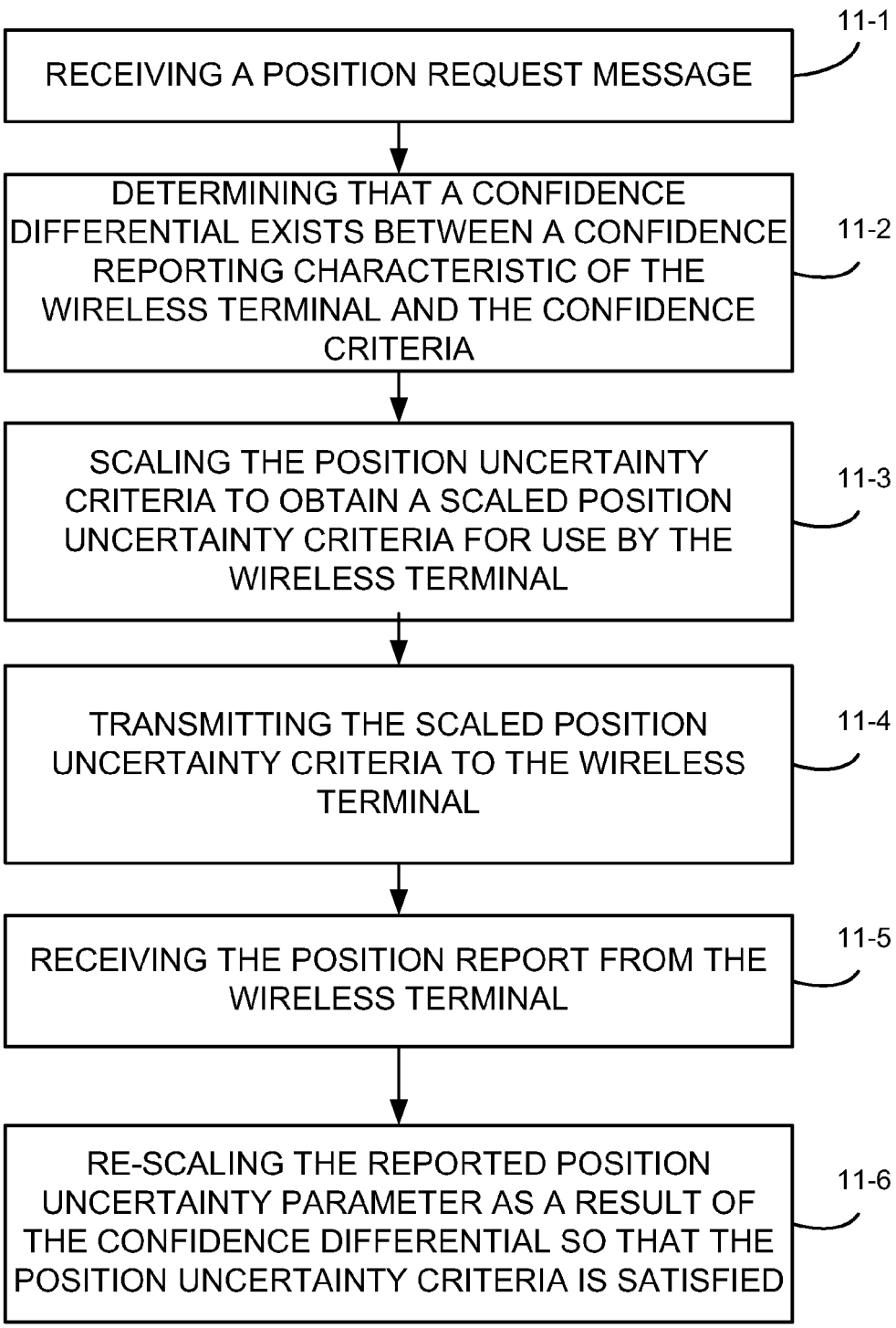

RECEIVING A POSITION REQUEST MESSAGE
11-1
DETERMINING THAT A CONFIDENCE DIFFERENTIAL EXISTS BETWEEN A CONFIDENCE REPORTING CHARACTERISTIC OF THE WIRELESS TERMINAL AND THE CONFIDENCE CRITERIA
11-2
SCALING THE POSITION UNCERTAINTY CRITERIA TO OBTAIN A SCALED POSITION UNCERTAINTY CRITERIA FOR USE BY THE WIRELESS TERMINAL
11-3
TRANSMITTING THE SCALED POSITION UNCERTAINTY CRITERIA TO THE WIRELESS TERMINAL
11-4
RECEIVING THE POSITION REPORT FROM THE WIRELESS TERMINAL
11-5
RE-SCALING THE REPORTED POSITION UNCERTAINTY PARAMETER AS A RESULT OF THE CONFIDENCE DIFFERENTIAL SO THAT THE POSITION UNCERTAINTY CRITERIA IS SATISFIED
11-6

Fig. 11

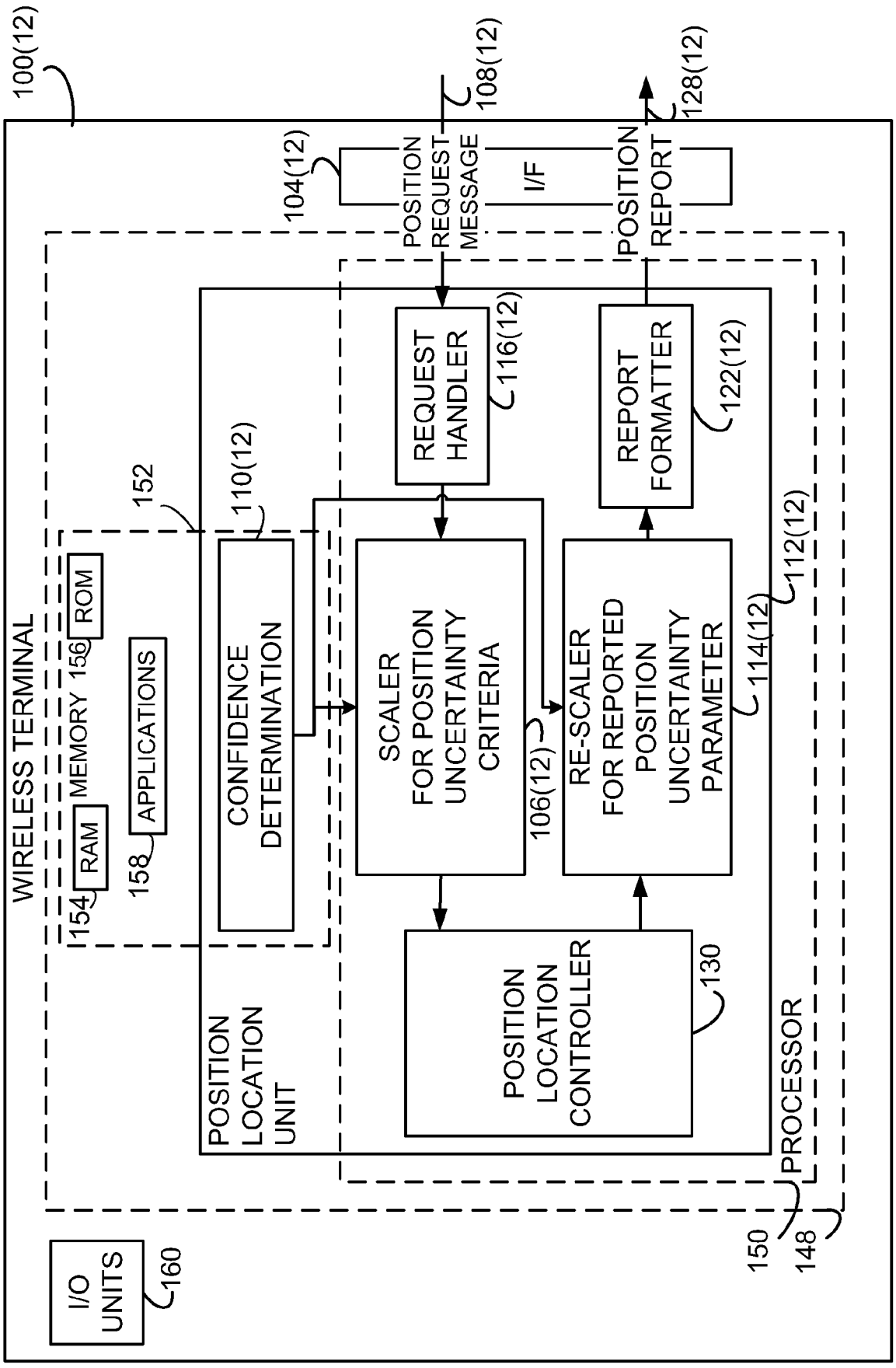

100(12)
WIRELESS TERMINAL
104(12)
POSITION REQUEST MESSAGE
I/F
POSITION REPORT
108(12)
128(12)
REQUEST HANDLER
116(12)
REPORT FORMATTER
122(12)
152
110(12)
CONFIDENCE DETERMINATION
SCALER FOR POSITION UNCERTAINTY CRITERIA
106(12)
RE-SCALER FOR REPORTED POSITION UNCERTAINTY PARAMETER
114(12)
112(12)
MEMORY 156
ROM
RAM
154
APPLICATIONS
158
POSITION LOCATION UNIT
POSITION LOCATION CONTROLLER
130
PROCESSOR
150
148
I/O UNITS
160

Fig. 12

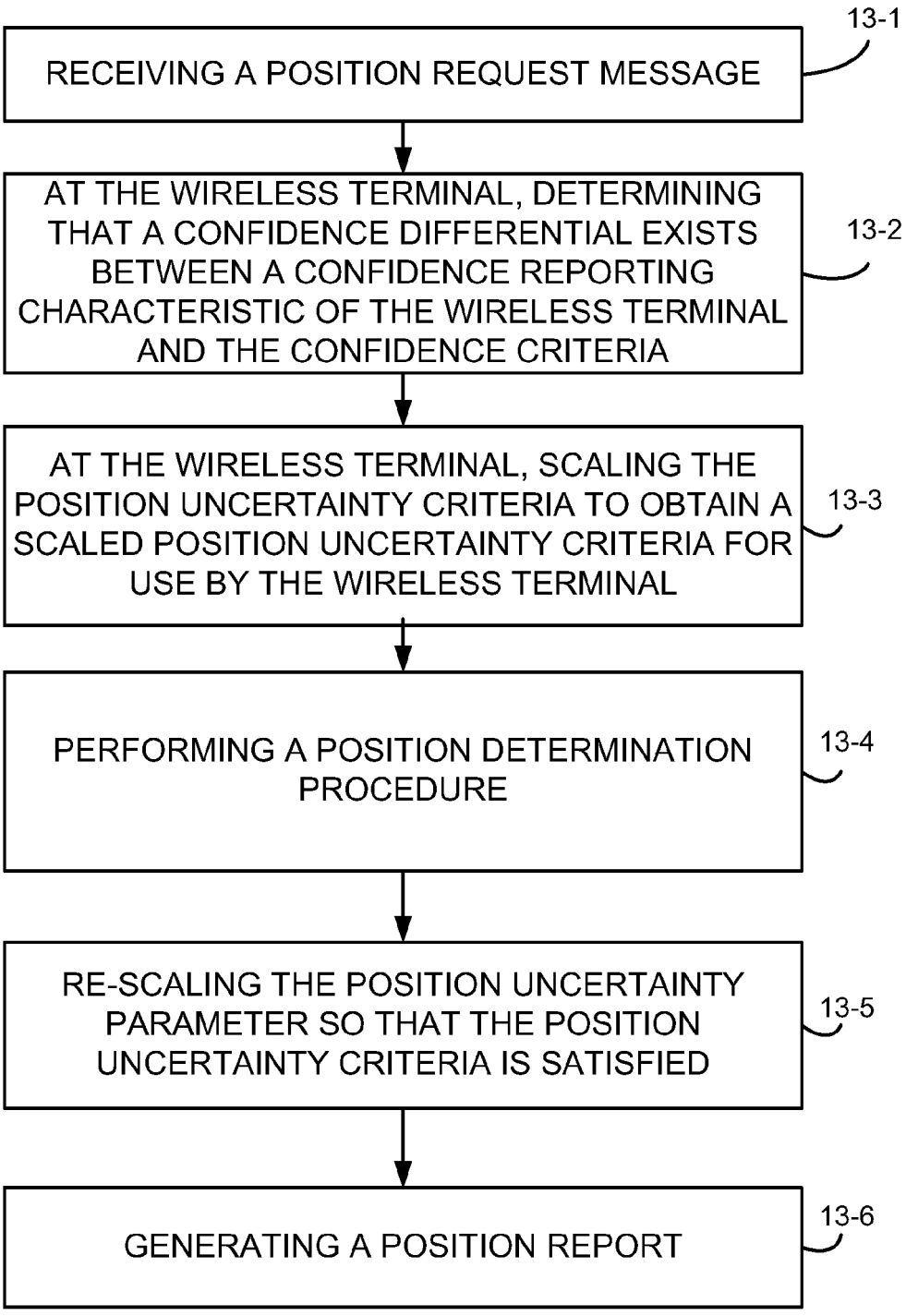

RECEIVING A POSITION REQUEST MESSAGE
13-1
AT THE WIRELESS TERMINAL, DETERMINING THAT A CONFIDENCE DIFFERENTIAL EXISTS BETWEEN A CONFIDENCE REPORTING CHARACTERISTIC OF THE WIRELESS TERMINAL AND THE CONFIDENCE CRITERIA
13-2
AT THE WIRELESS TERMINAL, SCALING THE POSITION UNCERTAINTY CRITERIA TO OBTAIN A SCALED POSITION UNCERTAINTY CRITERIA FOR USE BY THE WIRELESS TERMINAL
13-3
PERFORMING A POSITION DETERMINATION PROCEDURE
13-4
RE-SCALING THE POSITION UNCERTAINTY PARAMETER SO THAT THE POSITION UNCERTAINTY CRITERIA IS SATISFIED
13-5
GENERATING A POSITION REPORT
13-6

Fig. 13