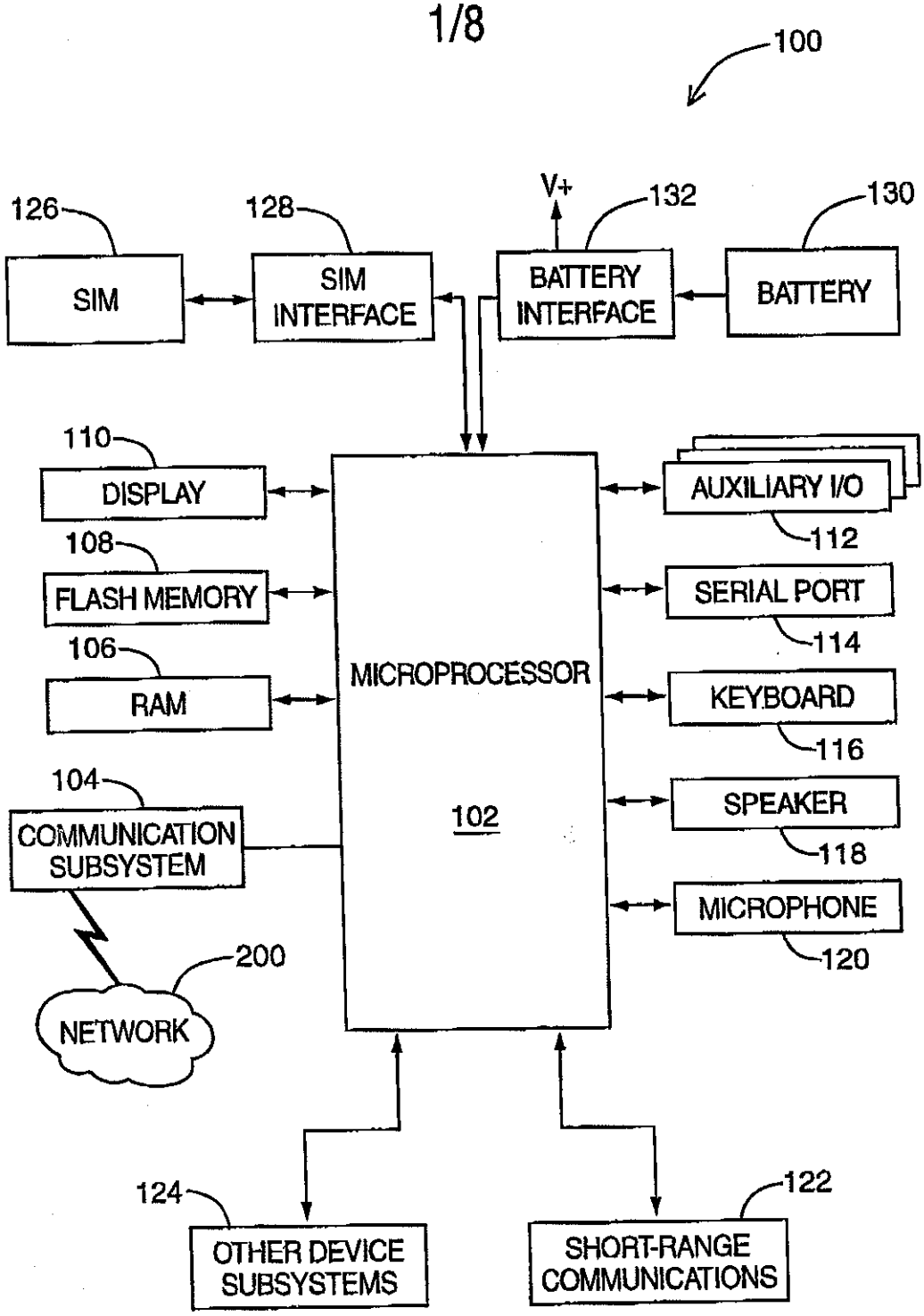

100
126
SIM
128
SIM INTERFACE
V+
132
BATTERY INTERFACE
130
BATTERY
110
DISPLAY
108
FLASH MEMORY
106
RAM
104
COMMUNICATION SUBSYSTEM
200
NETWORK
MICROPROCESSOR
102
AUXILIARY I/O
112
SERIAL PORT
114
KEYBOARD
116
SPEAKER
118
MICROPHONE
120
124
OTHER DEVICE SUBSYSTEMS
122
SHORT-RANGE COMMUNICATIONS

FIG. 1

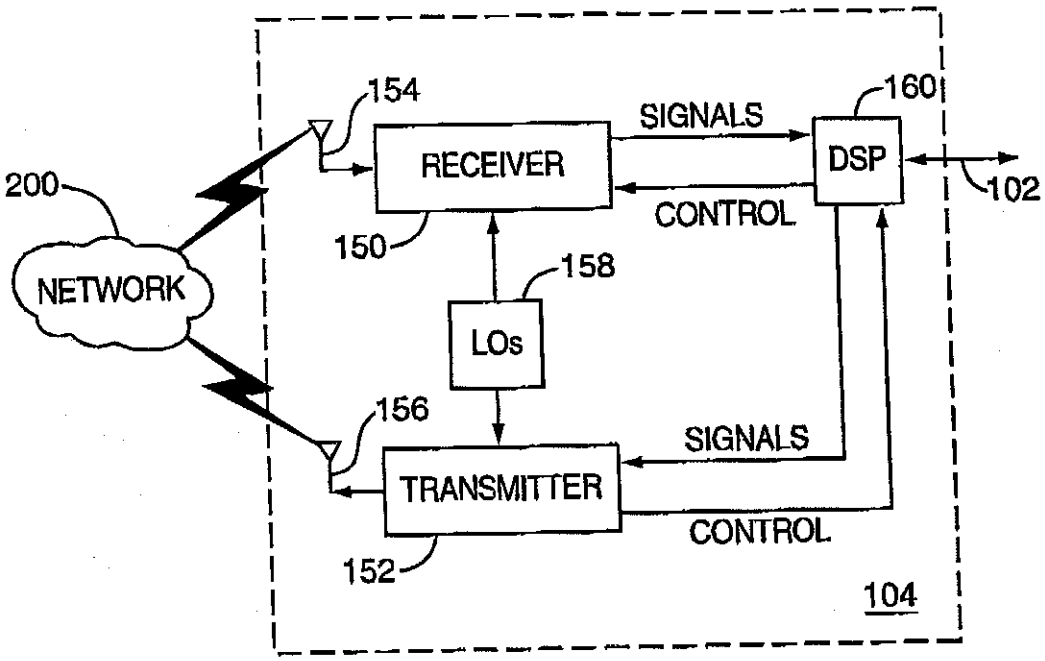

200
NETWORK
154
RECEIVER
150
SIGNALS
160
DSP
102
CONTROL
158
LOs
156
TRANSMITTER
152
SIGNALS
CONTROL
104

FIG. 2

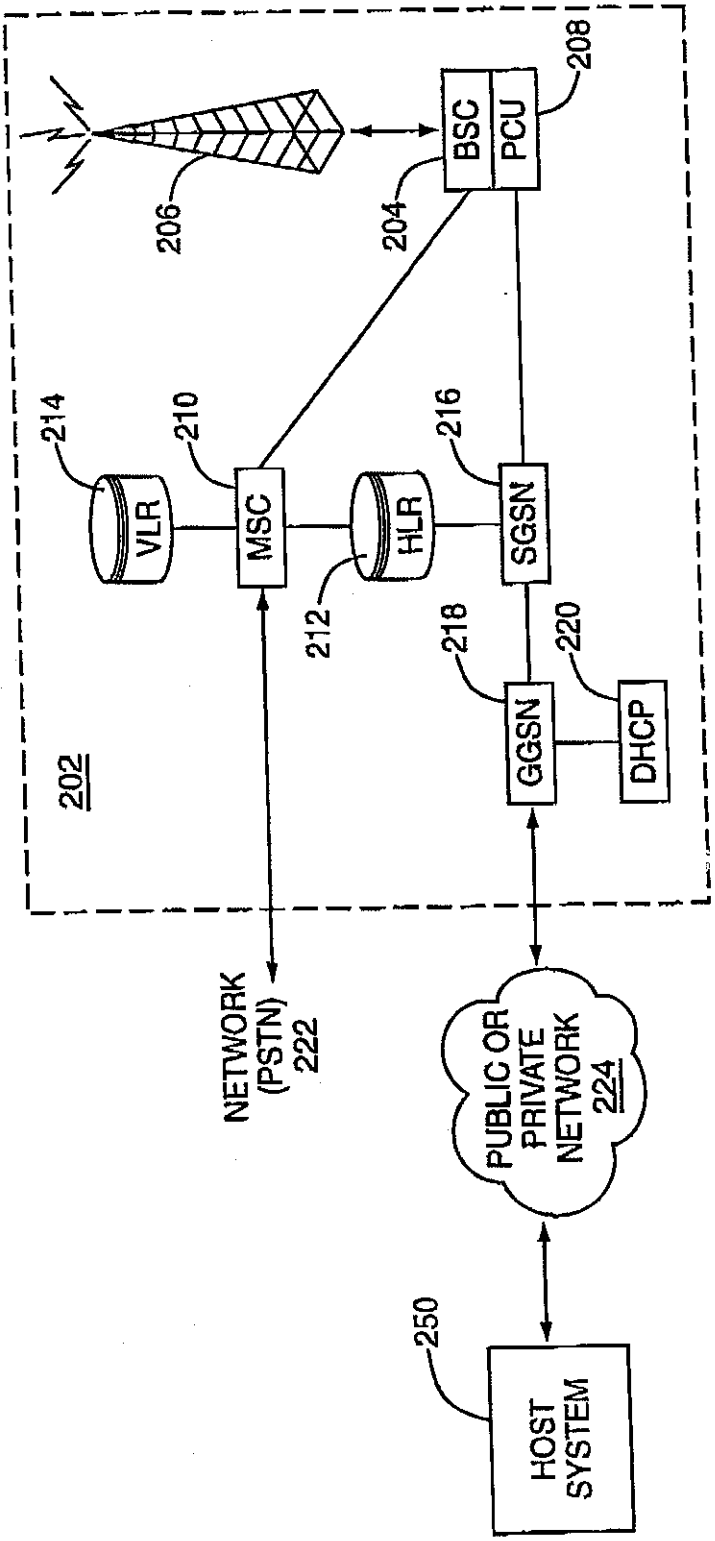

202
206
204
BSC
PCU
208
214
210
216
VLR
MSC
HLR
SGSN
212
218
220
GGSN
DHCP
NETWORK (PSTN) 222
PUBLIC OR PRIVATE NETWORK 224
250
HOST SYSTEM

FIG. 3

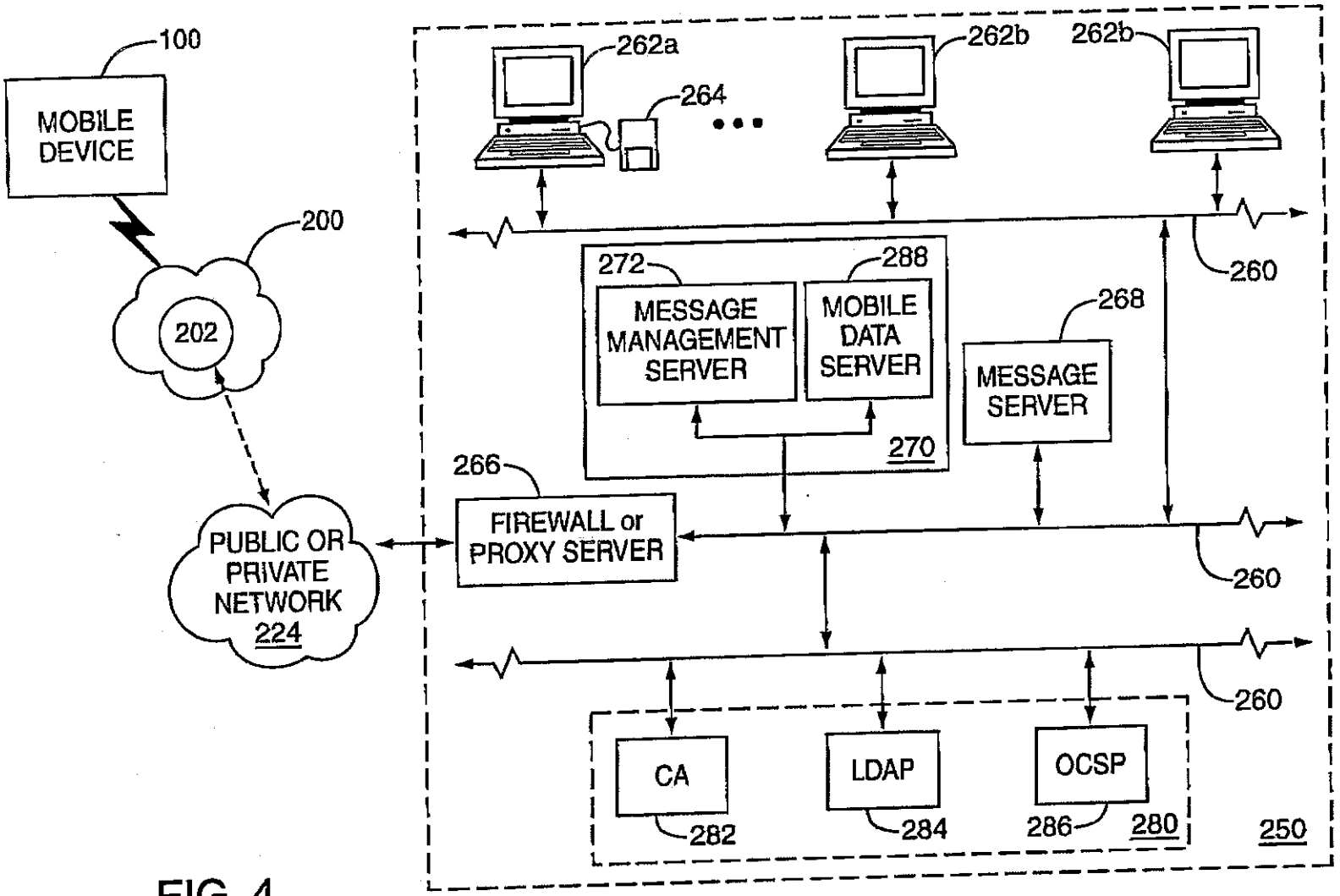

100
MOBILE DEVICE
200
202
PUBLIC OR PRIVATE NETWORK 224
262a
264
262b
262b
260
272
MESSAGE MANAGEMENT SERVER
288
MOBILE DATA SERVER
270
268
MESSAGE SERVER
266
FIREWALL or PROXY SERVER
260
260
CA
282
LDAP
284
OCSP
286
280
250

FIG. 4

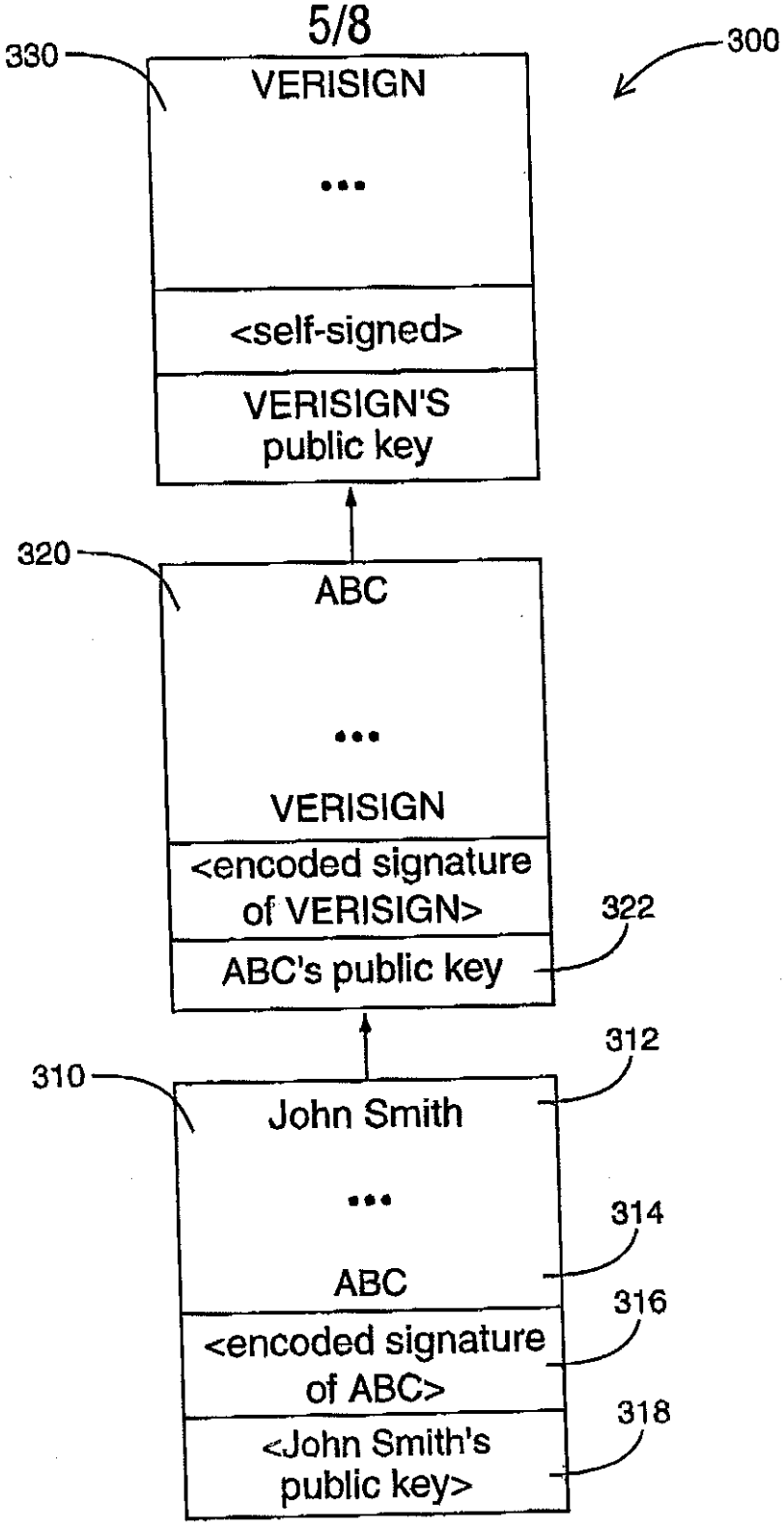

330
VERISIGN
...
<self-signed>
VERISIGN'S public key
300
320
ABC
...
VERISIGN
<encoded signature of VERISIGN>
ABC's public key
322
310
312
John Smith
...
314
ABC
316
<encoded signature of ABC>
318
<John Smith's public key>

FIG. 5

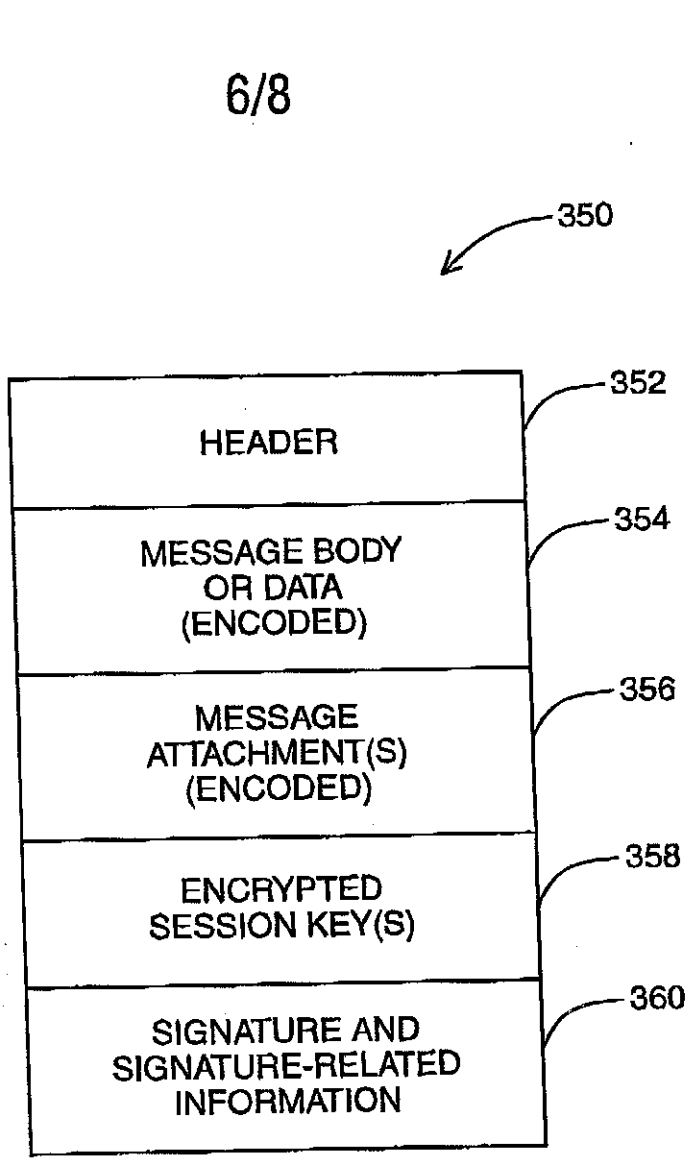

350
HEADER
352
MESSAGE BODY OR DATA (ENCODED)
354
MESSAGE ATTACHMENT(S) (ENCODED)
356
ENCRYPTED SESSION KEY(S)
358
SIGNATURE AND SIGNATURE-RELATED INFORMATION
360

FIG. 6

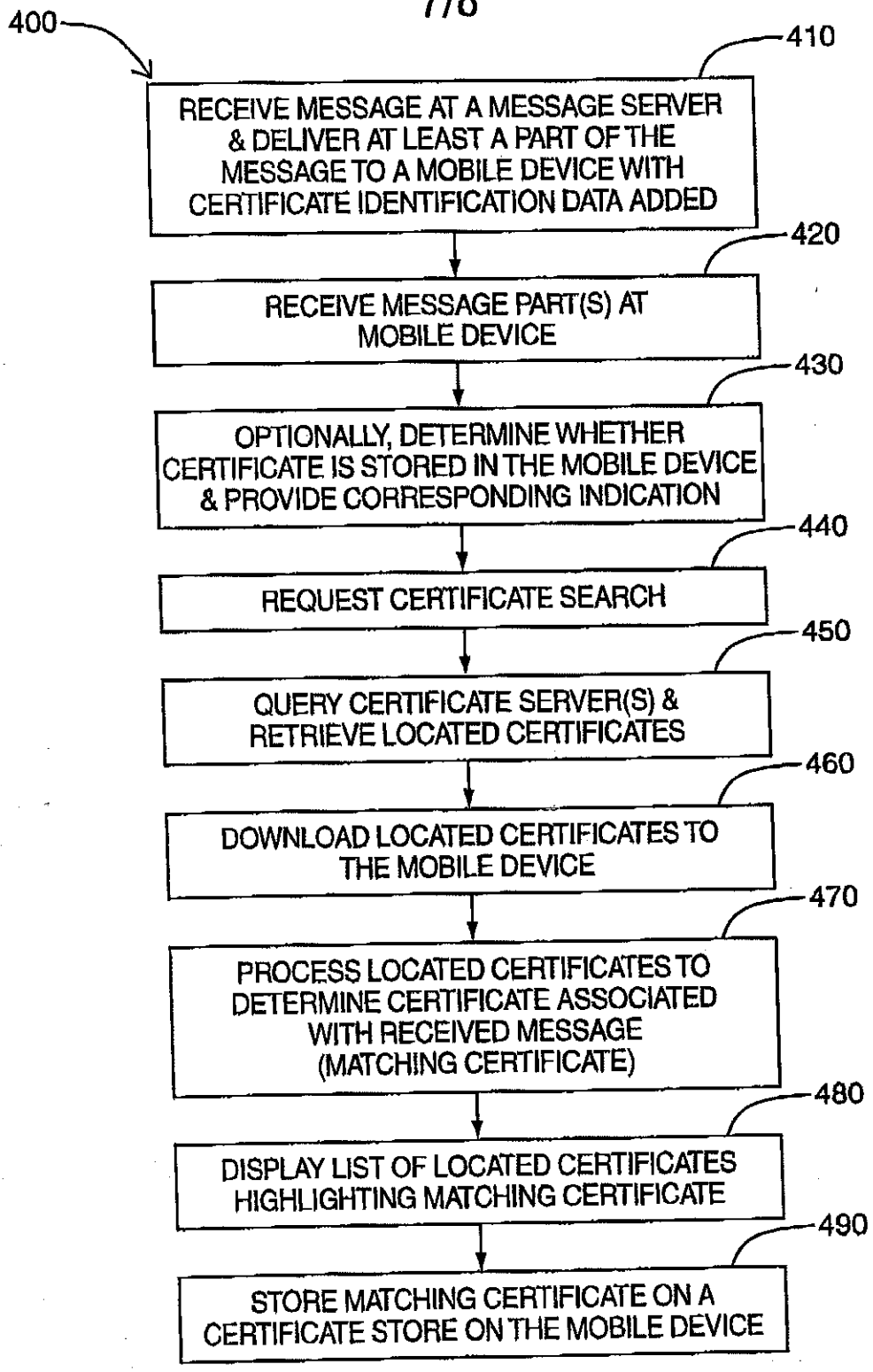

400
410
RECEIVE MESSAGE AT A MESSAGE SERVER & DELIVER AT LEAST A PART OF THE MESSAGE TO A MOBILE DEVICE WITH CERTIFICATE IDENTIFICATION DATA ADDED
420
RECEIVE MESSAGE PART(S) AT MOBILE DEVICE
430
OPTIONALLY, DETERMINE WHETHER CERTIFICATE IS STORED IN THE MOBILE DEVICE & PROVIDE CORRESPONDING INDICATION
440
REQUEST CERTIFICATE SEARCH
450
QUERY CERTIFICATE SERVER(S) & RETRIEVE LOCATED CERTIFICATES
460
DOWNLOAD LOCATED CERTIFICATES TO THE MOBILE DEVICE
470
PROCESS LOCATED CERTIFICATES TO DETERMINE CERTIFICATE ASSOCIATED WITH RECEIVED MESSAGE (MATCHING CERTIFICATE)
480
DISPLAY LIST OF LOCATED CERTIFICATES HIGHLIGHTING MATCHING CERTIFICATE
490
STORE MATCHING CERTIFICATE ON A CERTIFICATE STORE ON THE MOBILE DEVICE

FIG. 7A

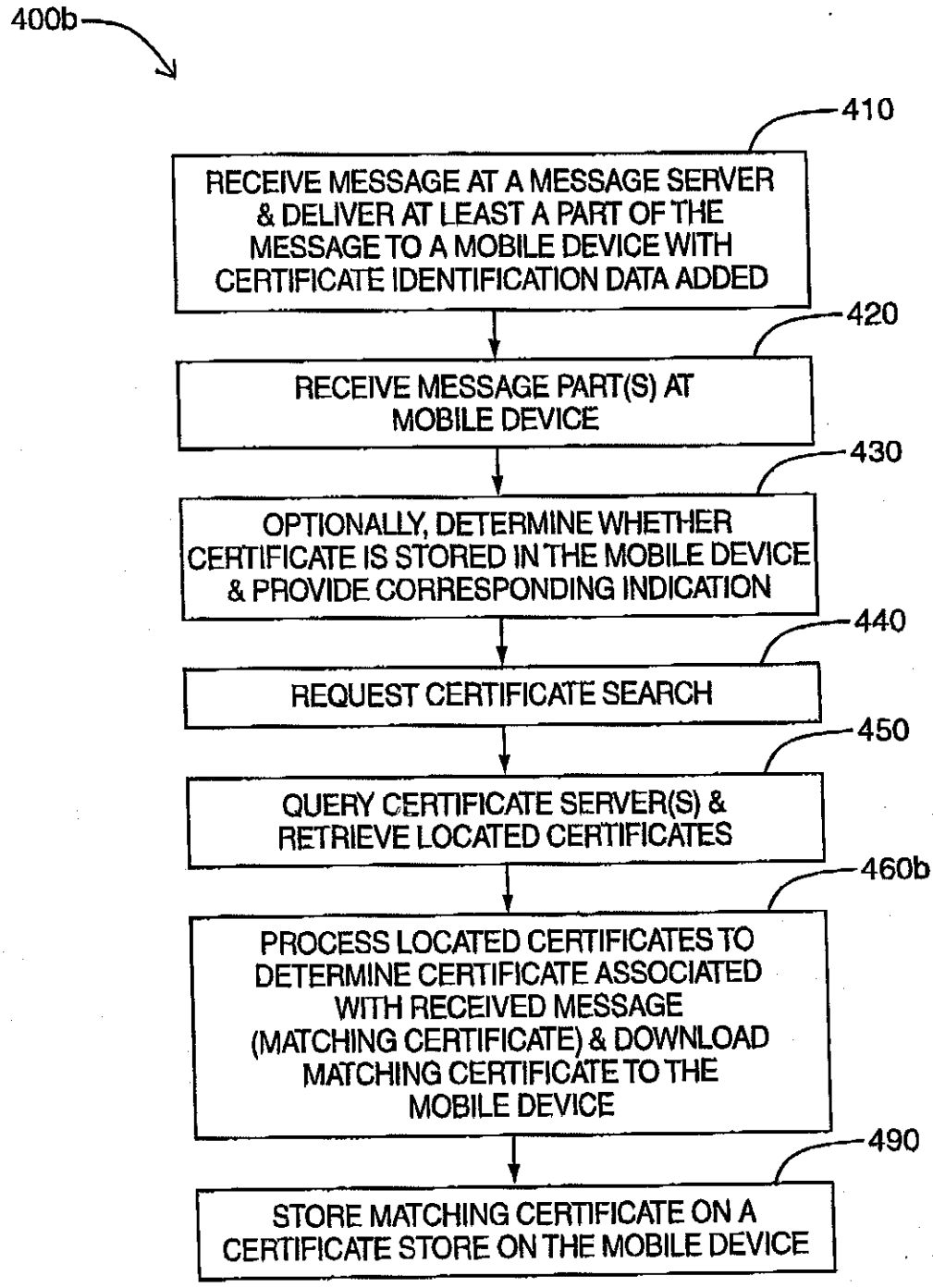

400b
410
RECEIVE MESSAGE AT A MESSAGE SERVER & DELIVER AT LEAST A PART OF THE MESSAGE TO A MOBILE DEVICE WITH CERTIFICATE IDENTIFICATION DATA ADDED
420
RECEIVE MESSAGE PART(S) AT MOBILE DEVICE
430
OPTIONALLY, DETERMINE WHETHER CERTIFICATE IS STORED IN THE MOBILE DEVICE & PROVIDE CORRESPONDING INDICATION
440
REQUEST CERTIFICATE SEARCH
450
QUERY CERTIFICATE SERVER(S) & RETRIEVE LOCATED CERTIFICATES
460b
PROCESS LOCATED CERTIFICATES TO DETERMINE CERTIFICATE ASSOCIATED WITH RECEIVED MESSAGE (MATCHING CERTIFICATE) & DOWNLOAD MATCHING CERTIFICATE TO THE MOBILE DEVICE
490
STORE MATCHING CERTIFICATE ON A CERTIFICATE STORE ON THE MOBILE DEVICE

FIG. 7B