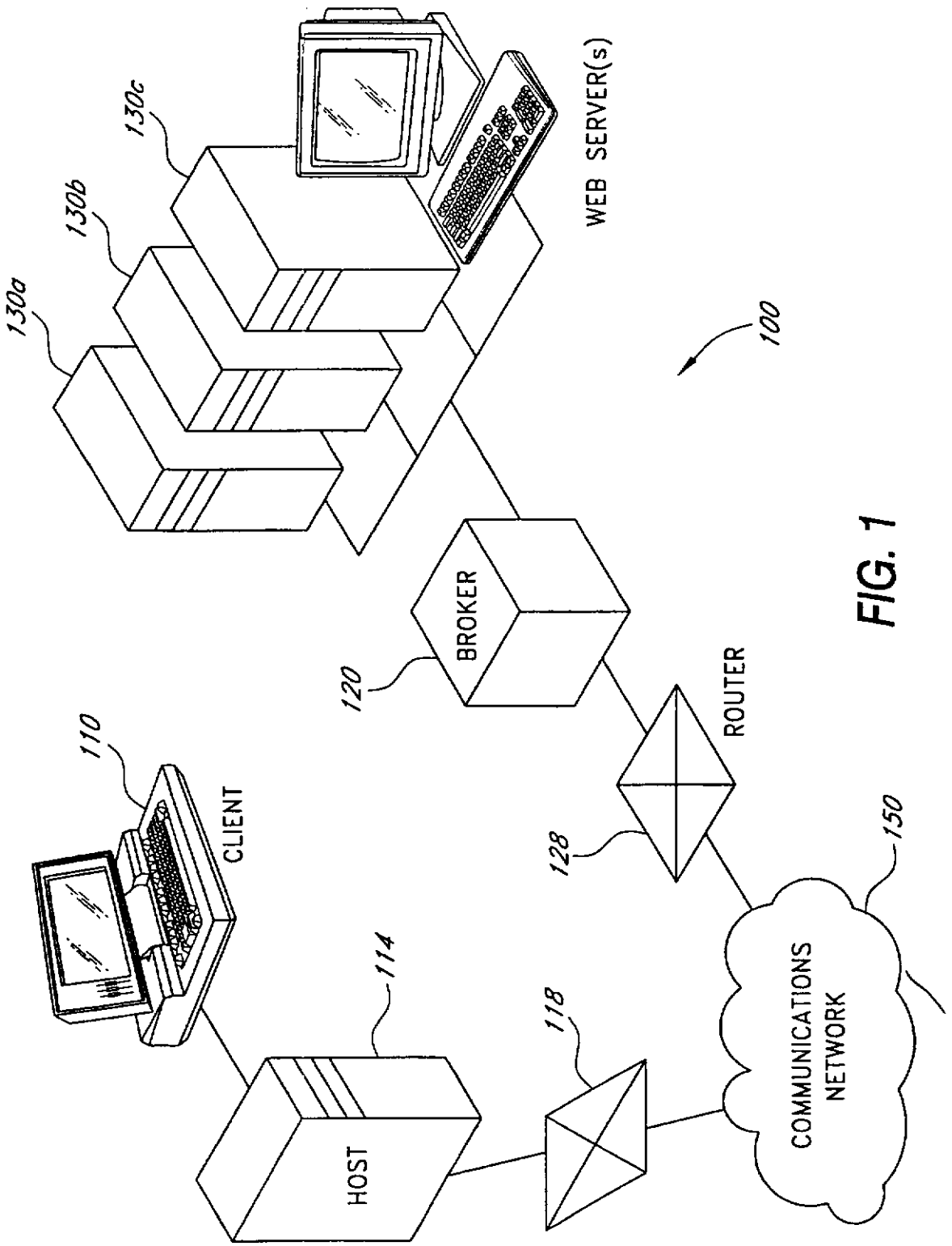

WEB SERVER(s)
130a
130b
130c
100
BROKER
120
ROUTER
128
110
CLIENT
114
HOST
118
150
COMMUNICATIONS NETWORK

FIG. 1

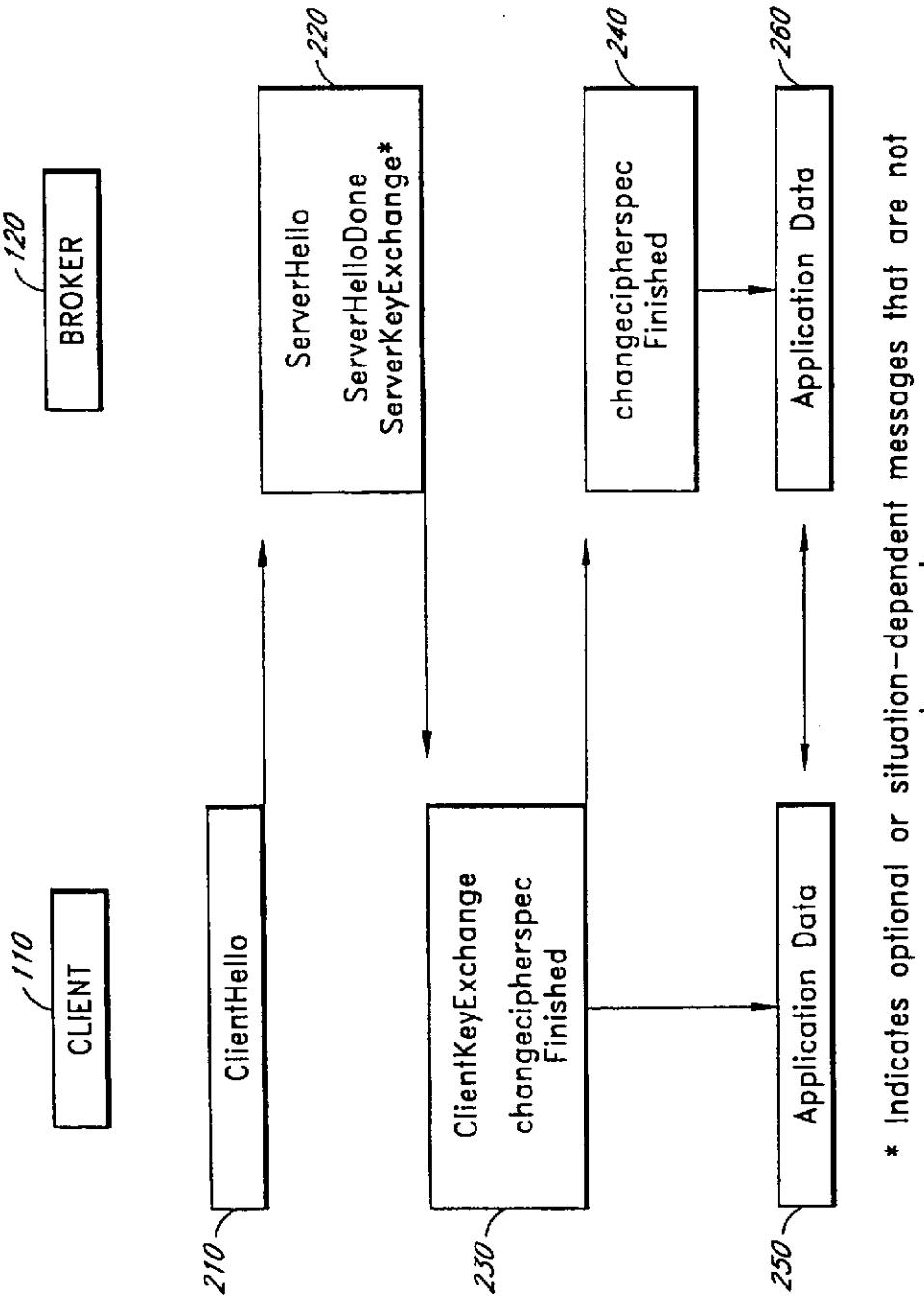

120
BROKER
110
CLIENT
ClientHello
210
ServerHello
ServerHelloDone
ServerKeyExchange*
220
ClientKeyExchange
changecipherspec
Finished
230
changecipherspec
Finished
240
Application Data
250
Application Data
260
* Indicates optional or situation-dependent messages that are not always sent

FIG. 2

FIG. 3

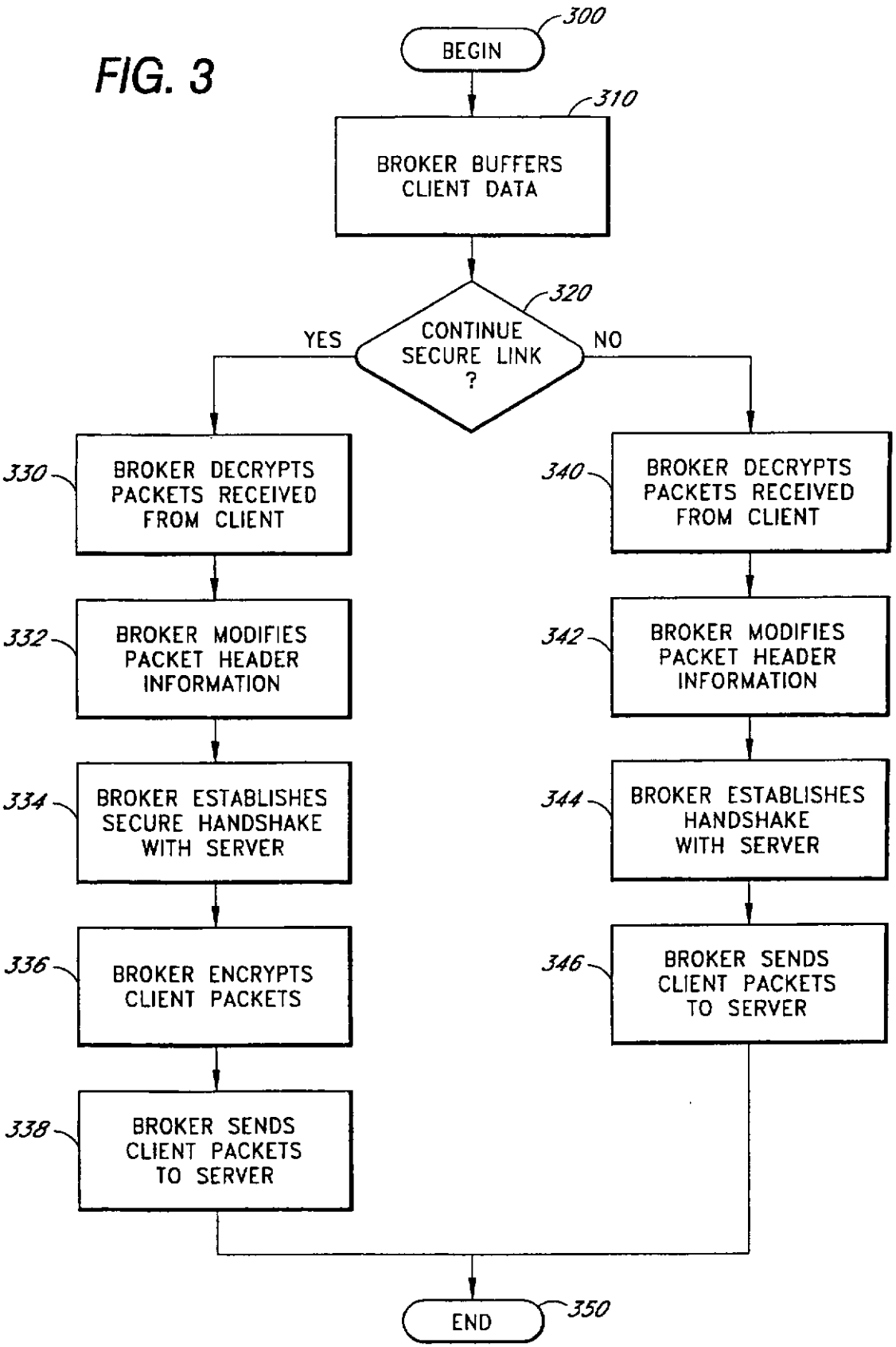
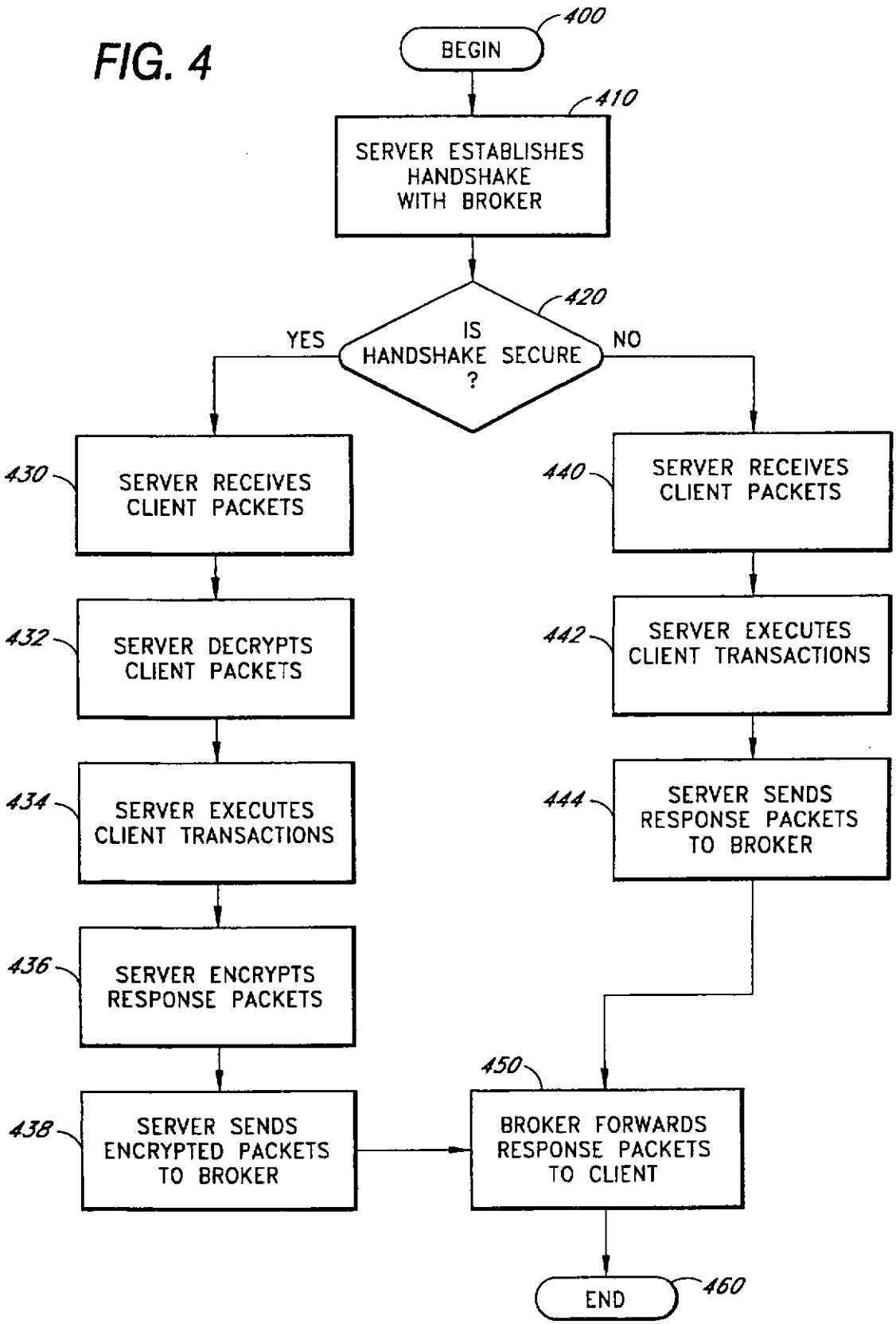

BEGIN
300
BROKER BUFFERS CLIENT DATA
310
CONTINUE SECURE LINK ?
320
YES
NO
330
BROKER DECRYPTS PACKETS RECEIVED FROM CLIENT
332
BROKER MODIFIES PACKET HEADER INFORMATION
334
BROKER ESTABLISHES SECURE HANDSHAKE WITH SERVER
336
BROKER ENCRYPTS CLIENT PACKETS
338
BROKER SENDS CLIENT PACKETS TO SERVER
340
BROKER DECRYPTS PACKETS RECEIVED FROM CLIENT
342
BROKER MODIFIES PACKET HEADER INFORMATION
344
BROKER ESTABLISHES HANDSHAKE WITH SERVER
346
BROKER SENDS CLIENT PACKETS TO SERVER
END
350

FIG. 4


400
BEGIN
410
SERVER ESTABLISHES HANDSHAKE WITH BROKER
420
IS HANDSHAKE SECURE ?
YES
NO
430
SERVER RECEIVES CLIENT PACKETS
432
SERVER DECRYPTS CLIENT PACKETS
434
SERVER EXECUTES CLIENT TRANSACTIONS
436
SERVER ENCRYPTS RESPONSE PACKETS
438
SERVER SENDS ENCRYPTED PACKETS TO BROKER
440
SERVER RECEIVES CLIENT PACKETS
442
SERVER EXECUTES CLIENT TRANSACTIONS
444
SERVER SENDS RESPONSE PACKETS TO BROKER
450
BROKER FORWARDS RESPONSE PACKETS TO CLIENT
460
END