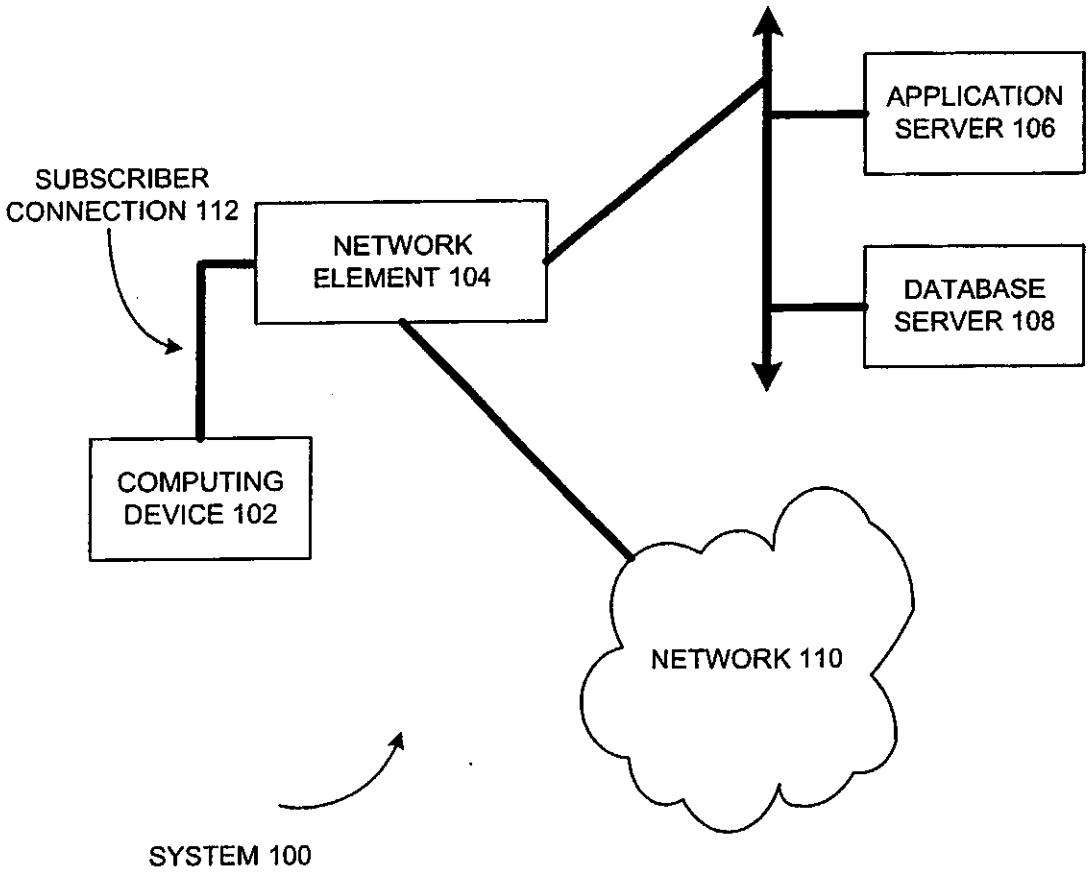

APPLICATION SERVER 106
SUBSCRIBER CONNECTION 112
NETWORK ELEMENT 104
DATABASE SERVER 108
COMPUTING DEVICE 102
NETWORK 110
SYSTEM 100

FIG. 1A

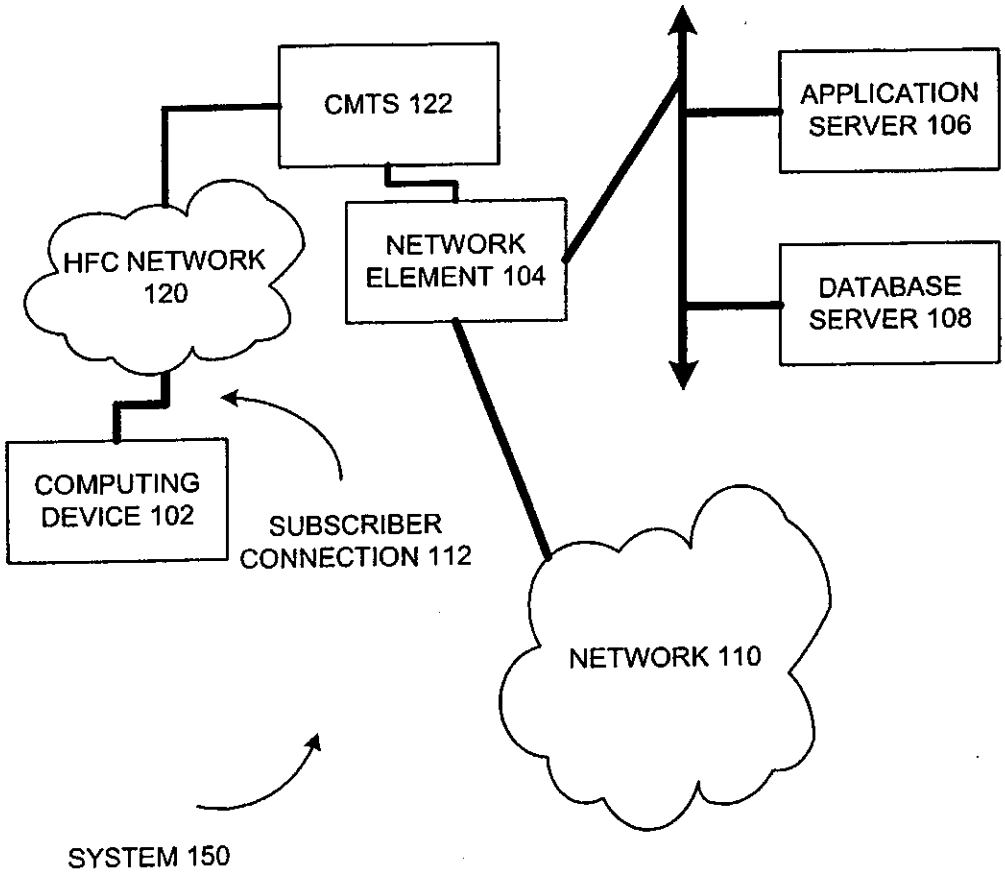

CMTS 122
APPLICATION SERVER 106
HFC NETWORK 120
NETWORK ELEMENT 104
DATABASE SERVER 108
COMPUTING DEVICE 102
SUBSCRIBER CONNECTION 112
NETWORK 110
SYSTEM 150

FIG. 1B

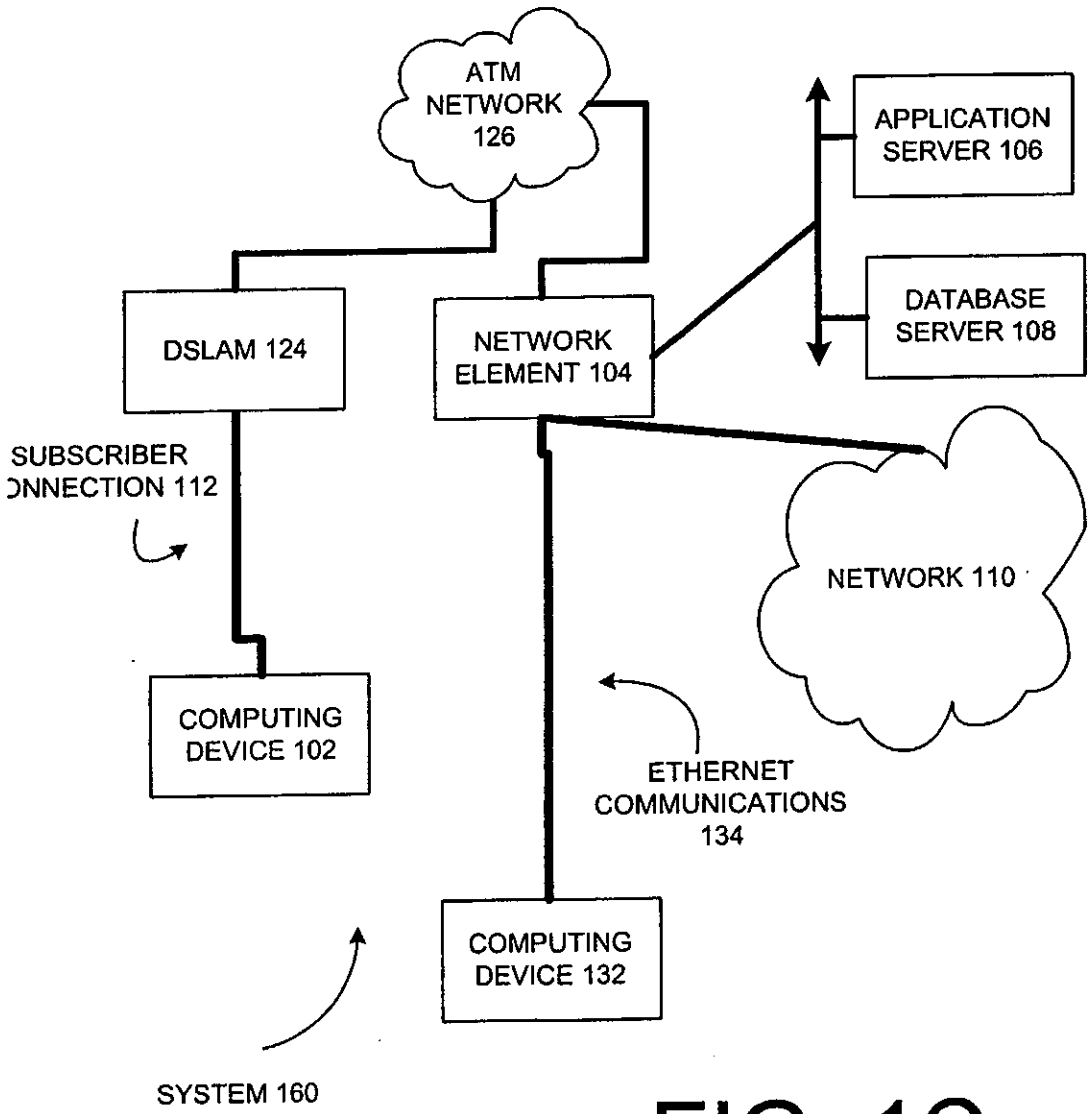

ATM NETWORK 126
APPLICATION SERVER 106
DATABASE SERVER 108
DSLAM 124
NETWORK ELEMENT 104
SUBSCRIBER ONNECTION 112
NETWORK 110
COMPUTING DEVICE 102
ETHERNET COMMUNICATIONS 134
COMPUTING DEVICE 132
SYSTEM 160

FIG. 1C

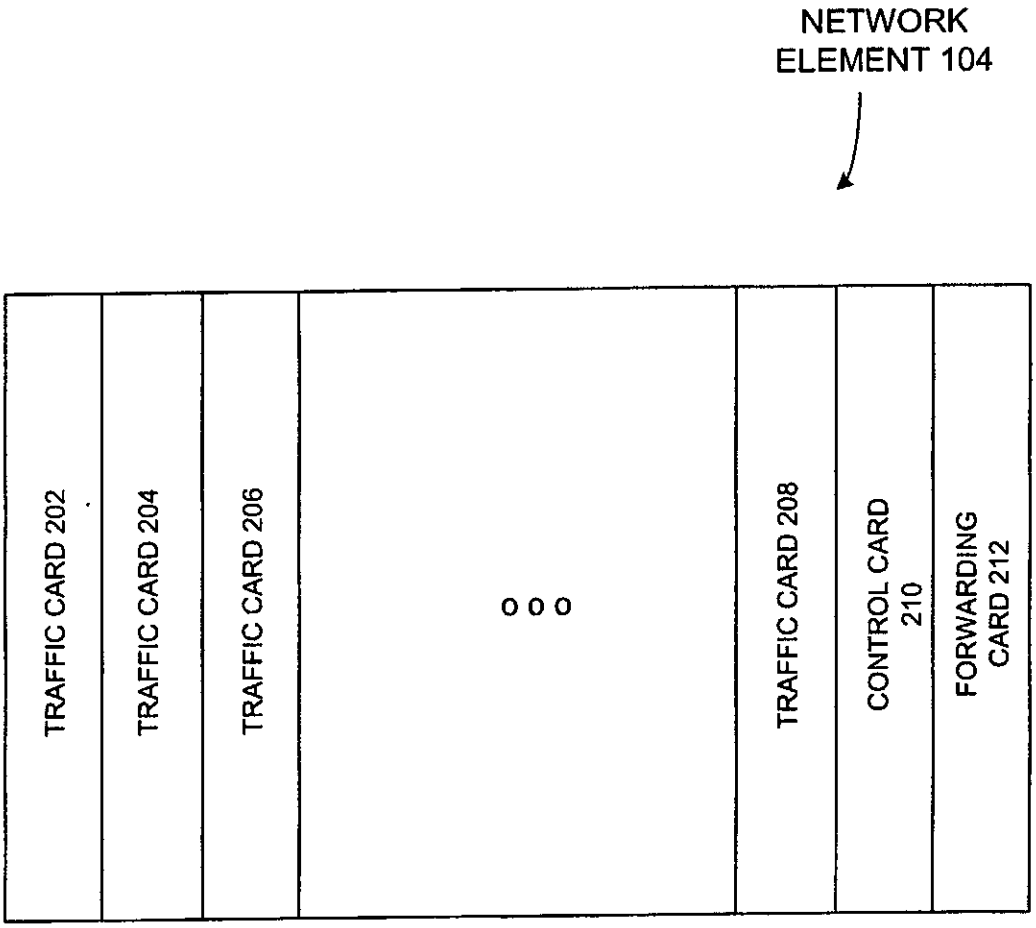

NETWORK
ELEMENT 104
TRAFFIC CARD 202
TRAFFIC CARD 204
TRAFFIC CARD 206
o o o
TRAFFIC CARD 208
CONTROL CARD
210
FORWARDING
CARD 212

FIG. 2

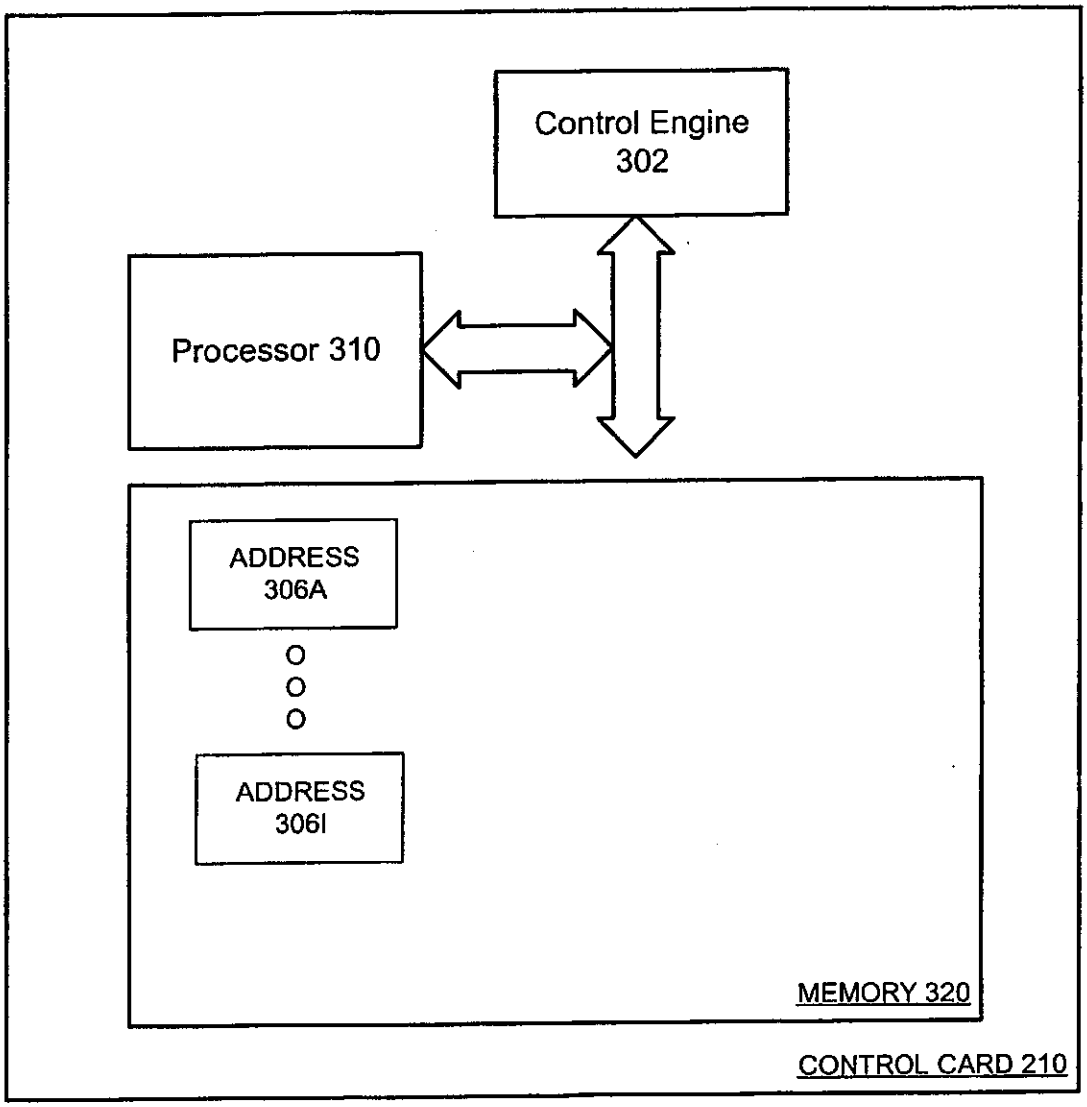

Control Engine
302
Processor 310
ADDRESS
306A
O
O
O
ADDRESS
306I
MEMORY 320
CONTROL CARD 210

FIG. 3

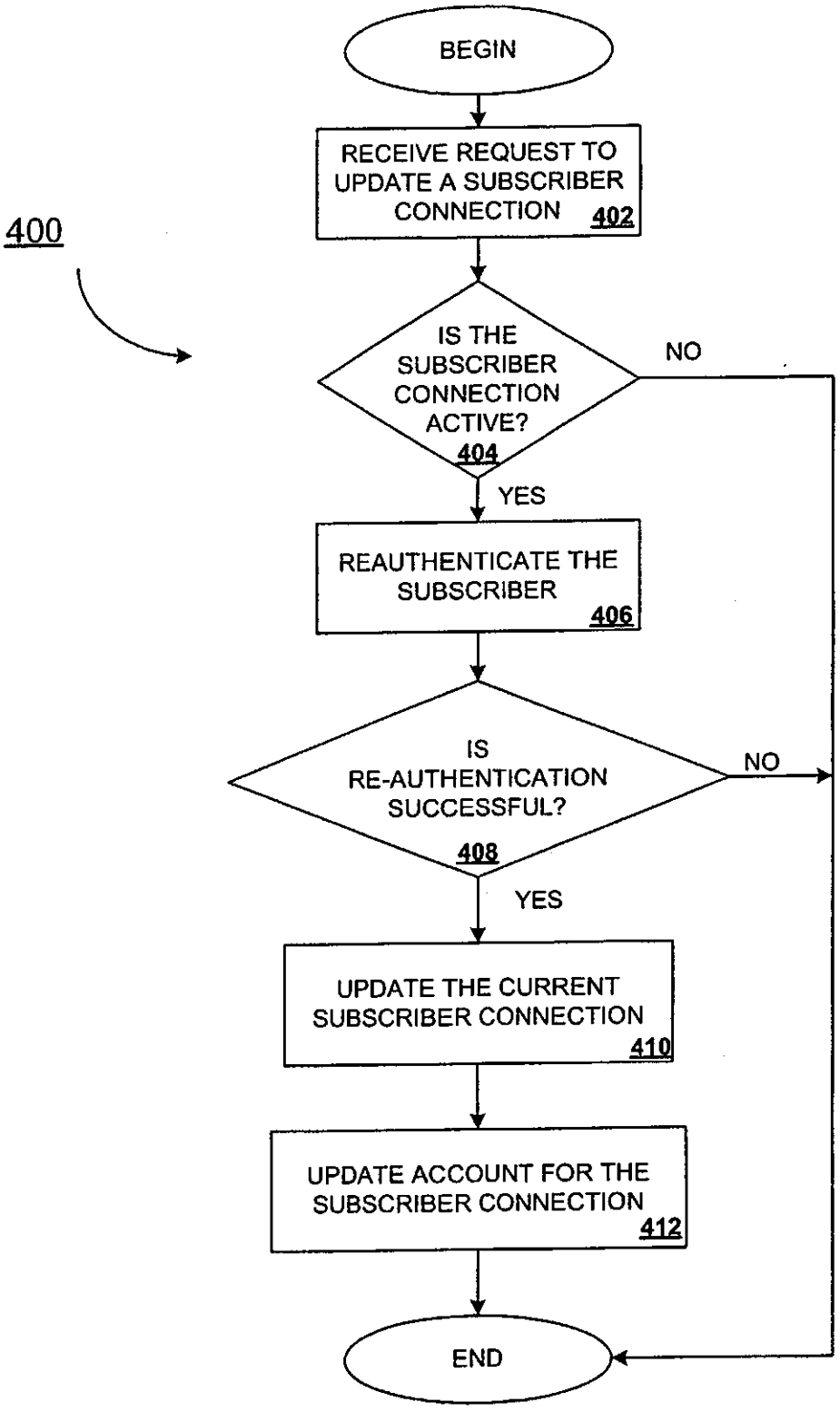

400
BEGIN
RECEIVE REQUEST TO UPDATE A SUBSCRIBER CONNECTION 402
IS THE SUBSCRIBER CONNECTION ACTIVE? 404
NO
YES
REAUTHENTICATE THE SUBSCRIBER 406
IS RE-AUTHENTICATION SUCCESSFUL? 408
NO
YES
UPDATE THE CURRENT SUBSCRIBER CONNECTION 410
UPDATE ACCOUNT FOR THE SUBSCRIBER CONNECTION 412
END

FIG. 4