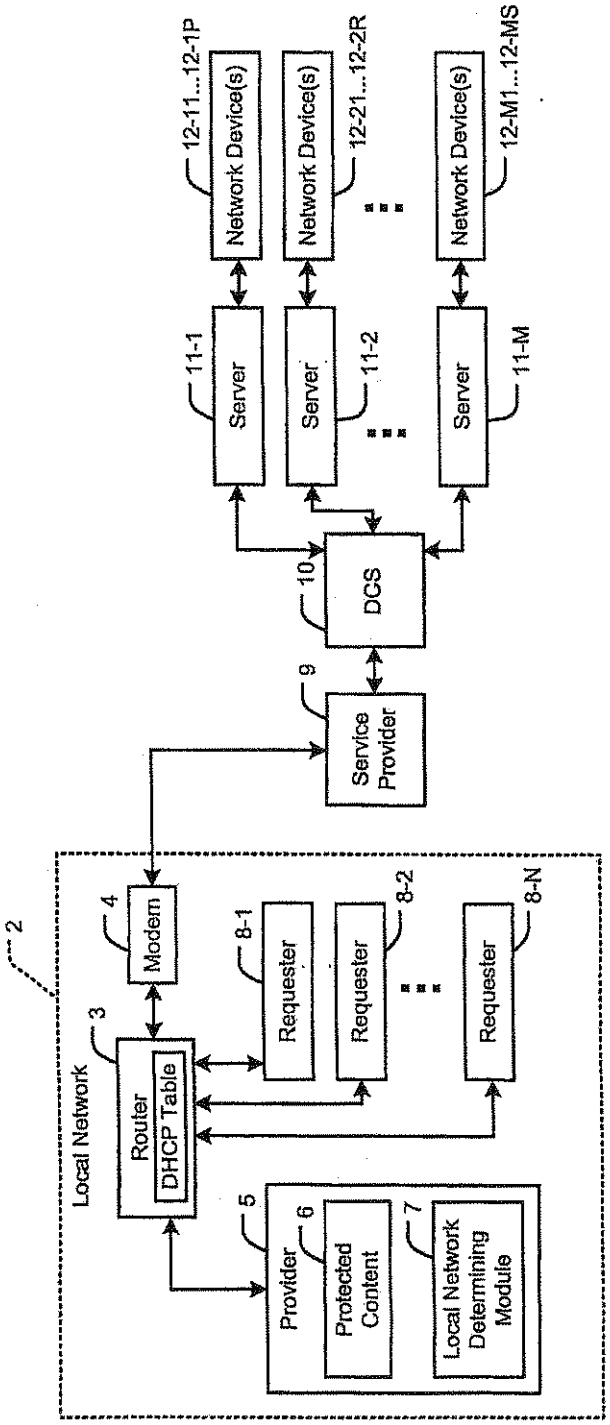

12-11...12-1P
Network Device(s)
12-21...12-2R
Network Device(s)
12-M1...12-MS
Network Device(s)
11-1
Server
11-2
Server
11-M
Server
10
DCS
9
Service Provider
2
Local Network
3
Router
DHCP Table
4
Modem
8-1
Requester
8-2
Requester
8-N
Requester
5
Provider
6
Protected Content
7
Local Network Determining Module

FIG. 1

FIG. 2

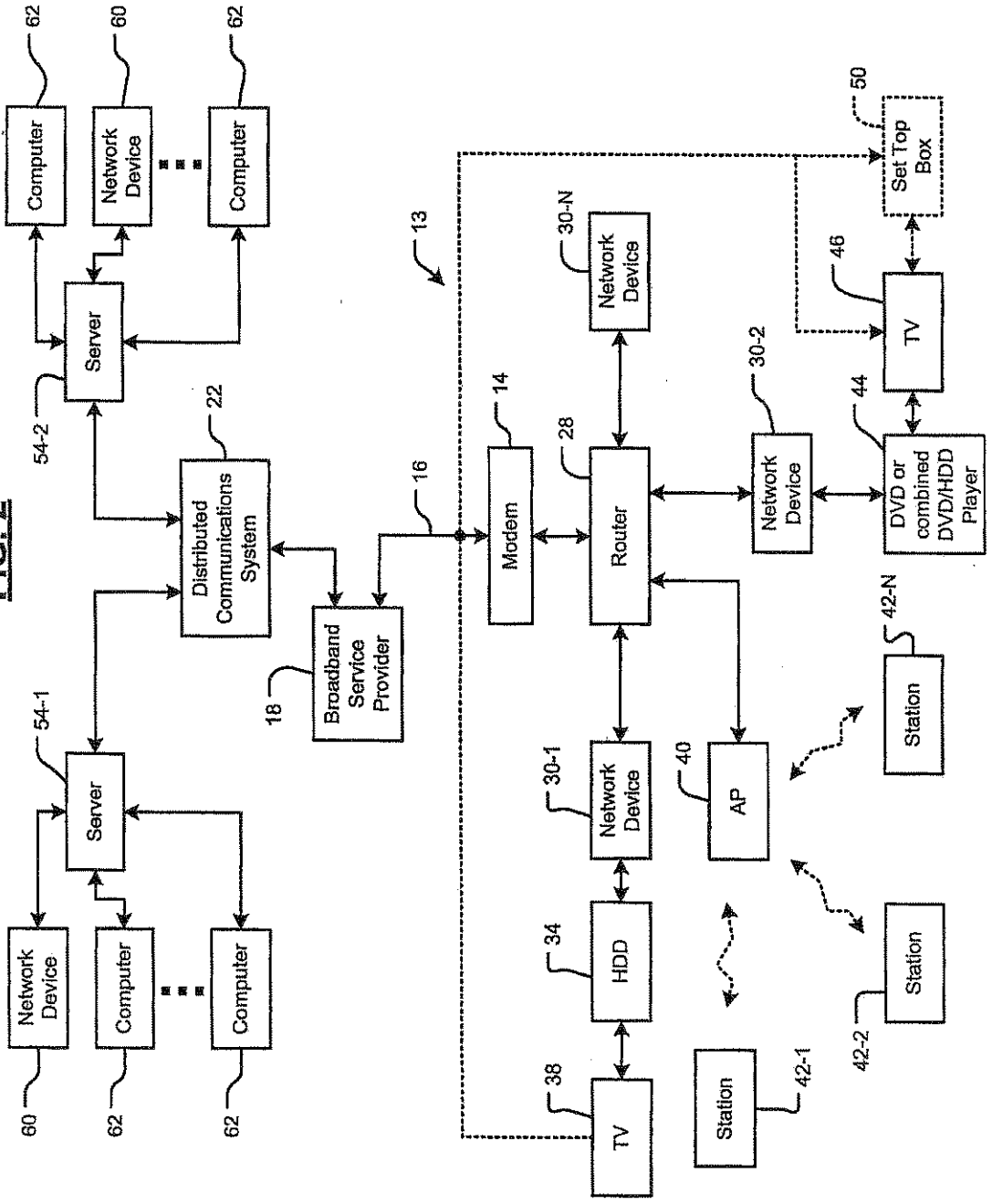

Computer
62
Network Device
60
Computer
62
Server
54-2
Distributed Communications System
22
Broadband Service Provider
18
16
13
Modem
14
Router
28
Network Device
30-N
Network Device
30-2
Set Top Box
50
TV
46
DVD or combined DVD/HDD Player
44
Network Device
60
Computer
62
Computer
62
Server
54-1
Network Device
30-1
HDD
34
TV
38
AP
40
Station
42-1
Station
42-2
Station
42-N

FIG. 3

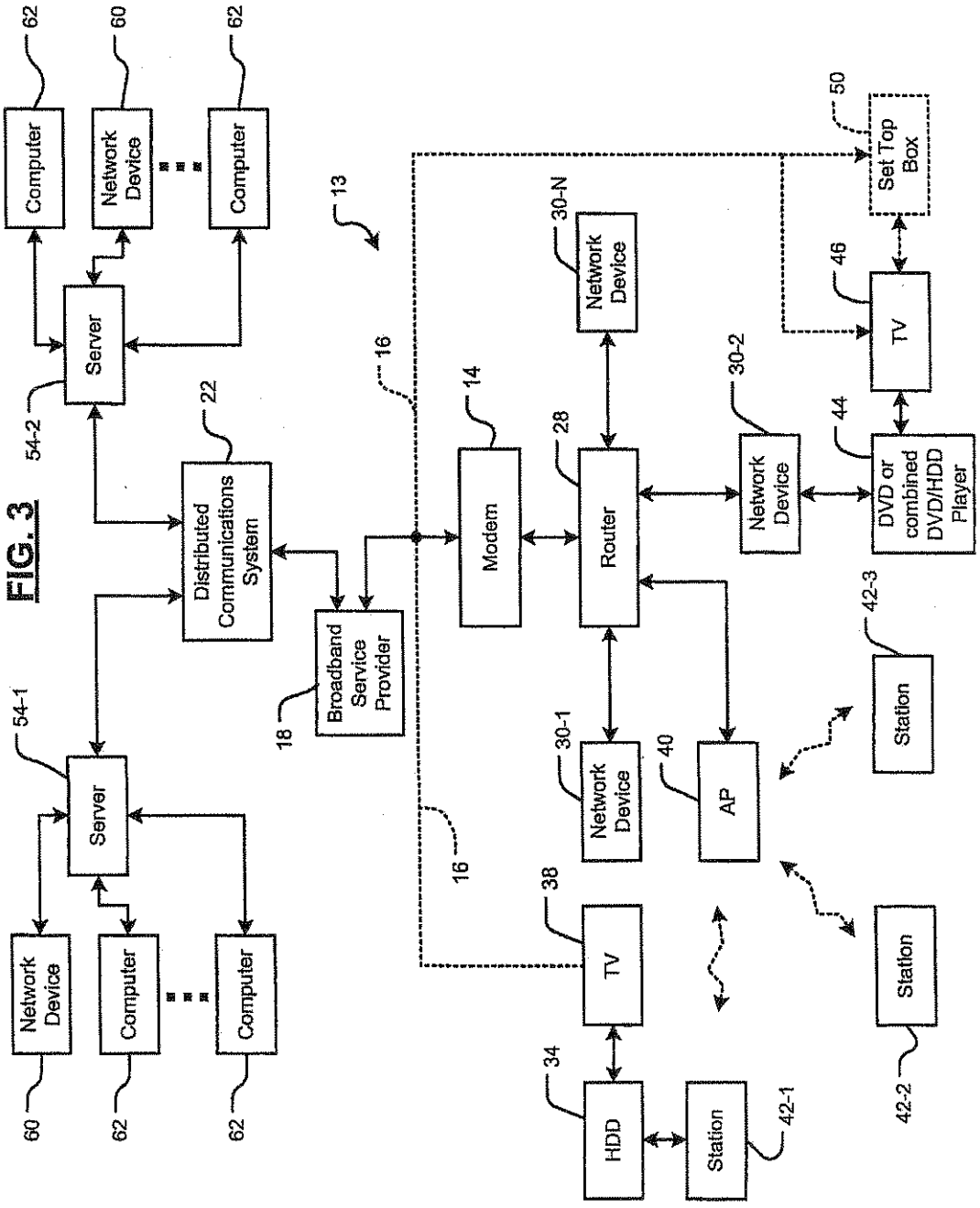

Computer
Network Device
Computer
62
60
62
Server
54-2
Distributed Communications System
22
Broadband Service Provider
18
13
16
Modem
14
Router
28
Network Device
30-N
Network Device
30-2
DVD or combined DVD/HDD Player
44
TV
46
Set Top Box
50
Server
54-1
Network Device
Computer
Computer
60
62
62
16
Network Device
30-1
AP
40
Station
42-3
TV
38
HDD
34
Station
42-1
Station
42-2

FIG. 4

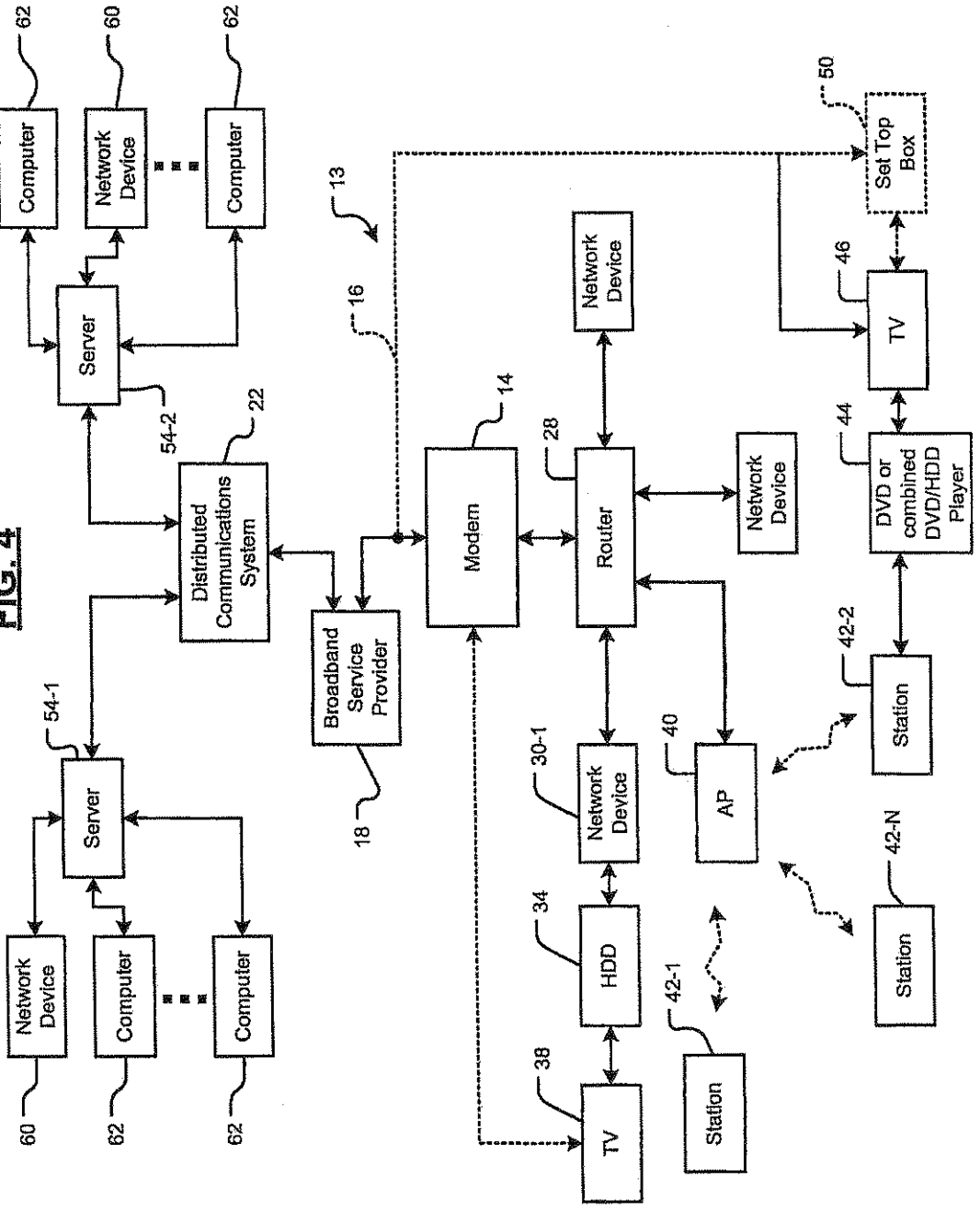
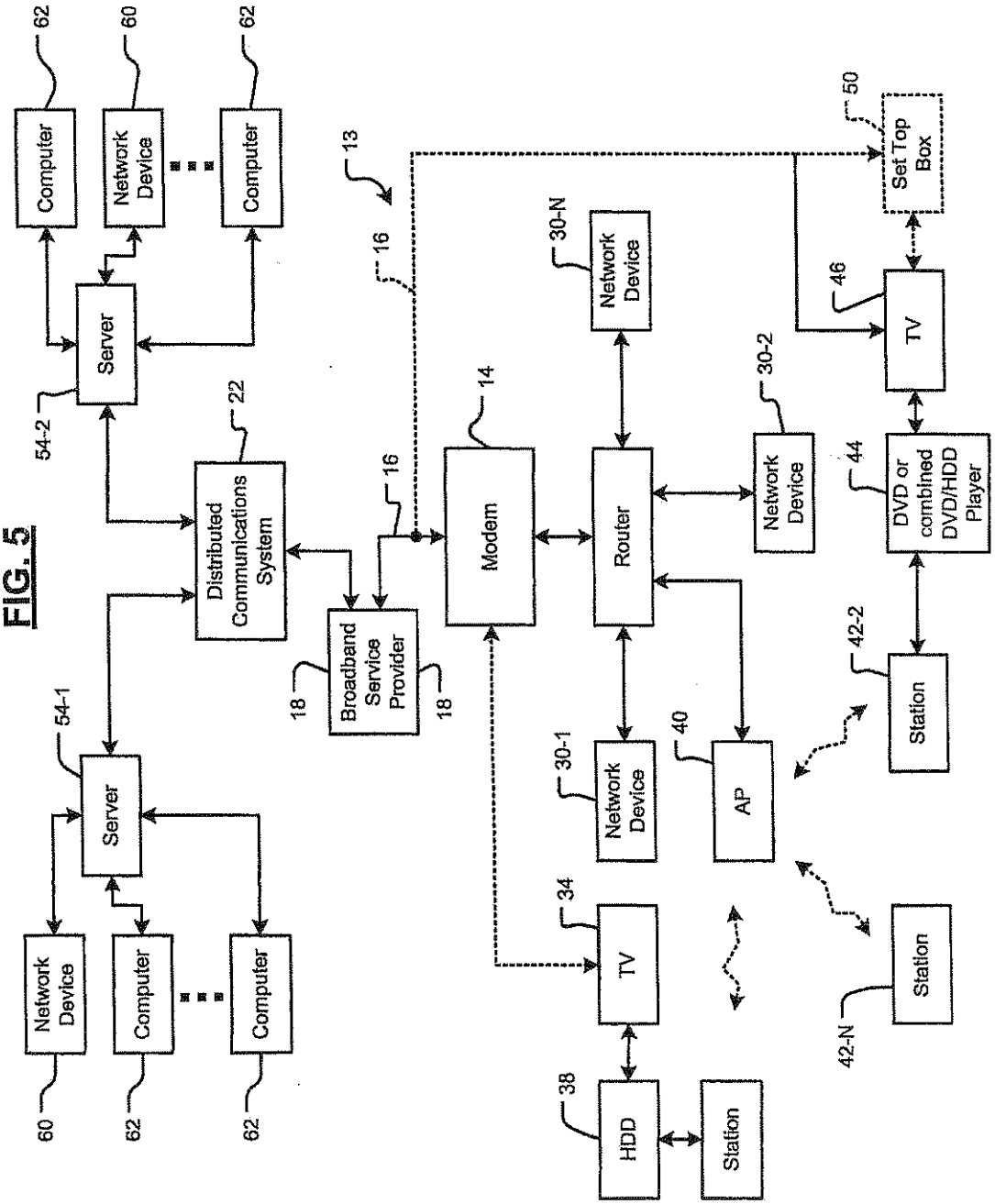

62
Computer
60
Network Device
62
Computer
Server
54-2
22
Distributed Communications System
54-1
Server
Network Device
Computer
Computer
60
62
62
13
16
18
Broadband Service Provider
14
Modem
28
Router
Network Device
Network Device
30-1
Network Device
34
HDD
38
TV
40
AP
42-1
Station
50
Set Top Box
46
TV
44
DVD or combined DVD/HDD Player
42-2
Station
42-N
Station

FIG. 5


62
60
62
Computer
Network Device
Computer
13
50
Set Top Box
16
30-N
Network Device
Server
46
TV
54-2
22
14
30-2
Distributed Communications System
16
Modem
Router
Network Device
44
DVD or combined DVD/HDD Player
18
Broadband Service Provider
18
42-2
Station
54-1
Server
30-1
Network Device
40
AP
34
TV
Network Device
Computer
Computer
38
HDD
Station
42-N
Station
60
62
62

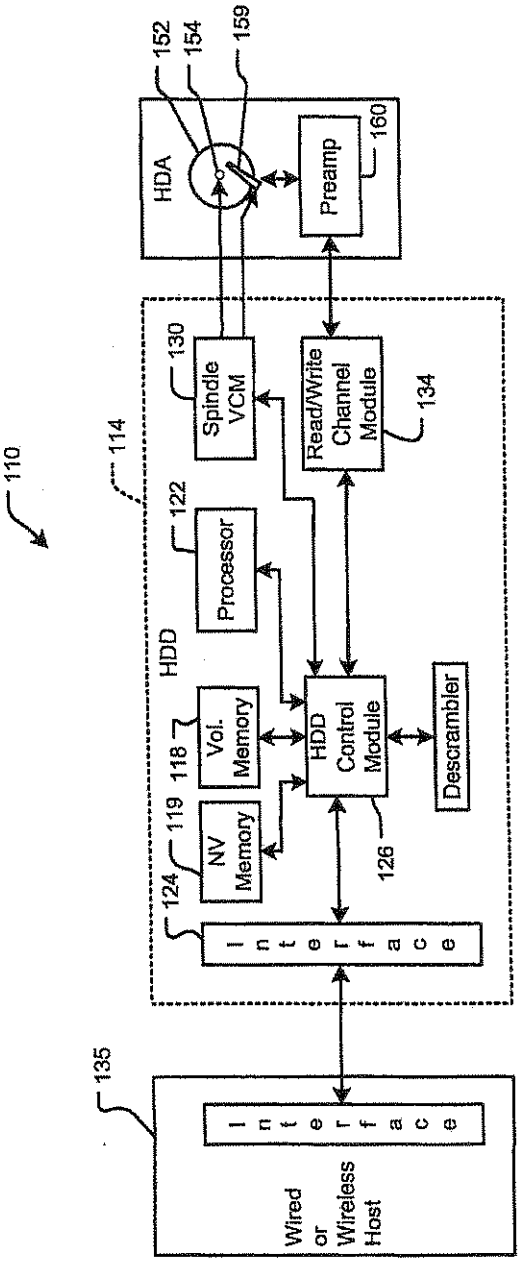

110
114
HDD
HDA
152
154
159
160
Preamp
130
Spindle VCM
Read/Write Channel Module
134
122
Processor
118
Vol. Memory
119
NV Memory
124
HDD Control Module
126
Descrambler
Interface
135
Interface
Wired or Wireless Host

FIG. 6

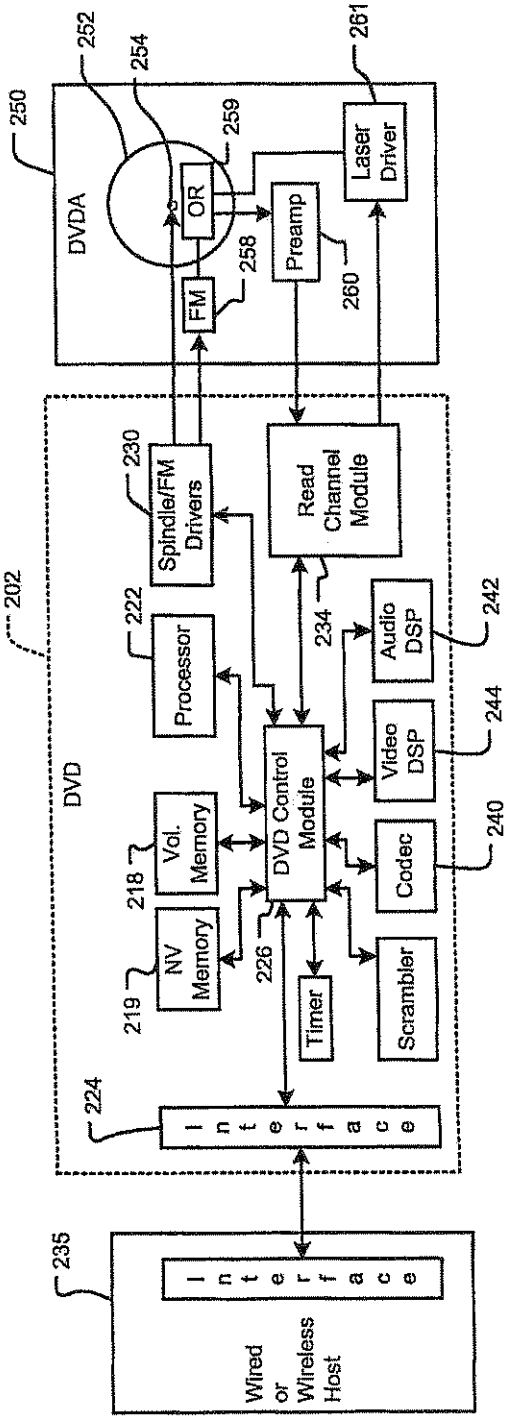

250
DVDA
252
254
259
OR
258
FM
Preamp
260
261
Laser Driver
202
DVD
230
Spindle/FM Drivers
Read Channel Module
222
Processor
234
Audio DSP
242
Video DSP
244
DVD Control Module
218
Vol. Memory
219
NV Memory
226
Timer
Codec
240
Scrambler
224
Interface
235
Interface
Wired or Wireless Host

FIG. 7A

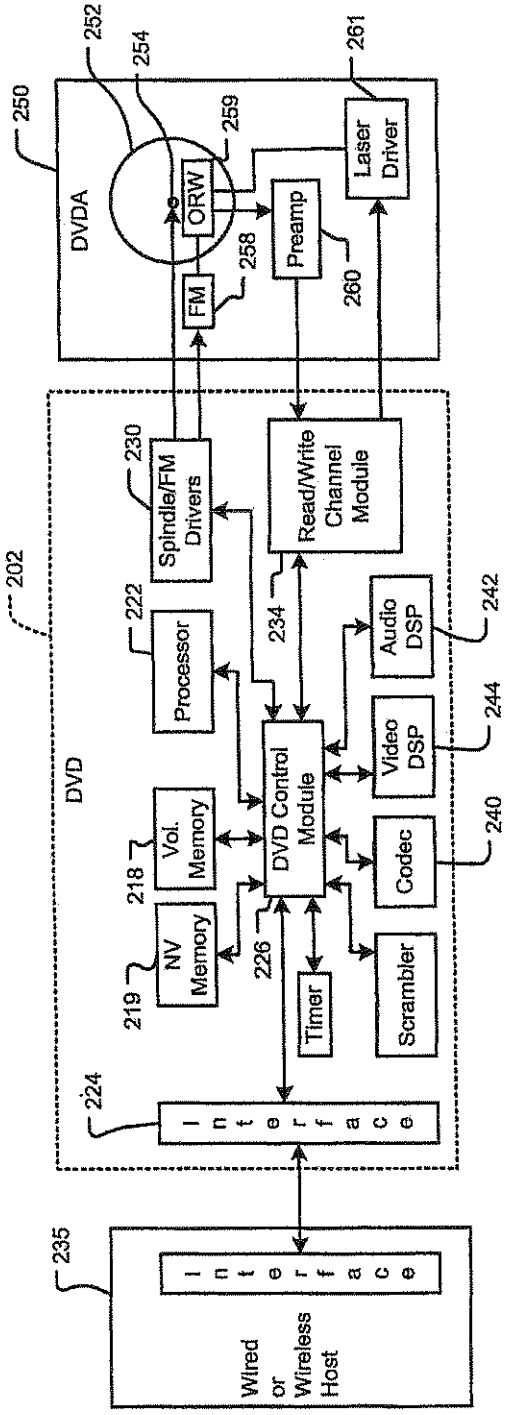

250
DVDA
252
254
259
ORW
FM
258
Preamp
260
261
Laser Driver
202
DVD
230
Spindle/FM Drivers
Read/Write Channel Module
222
Processor
234
Audio DSP
242
Video DSP
244
DVD Control Module
218
Vol. Memory
219
NV Memory
226
Timer
Codec
240
Scrambler
224
Interface
235
Wired or Wireless Host
Interface

FIG. 7B

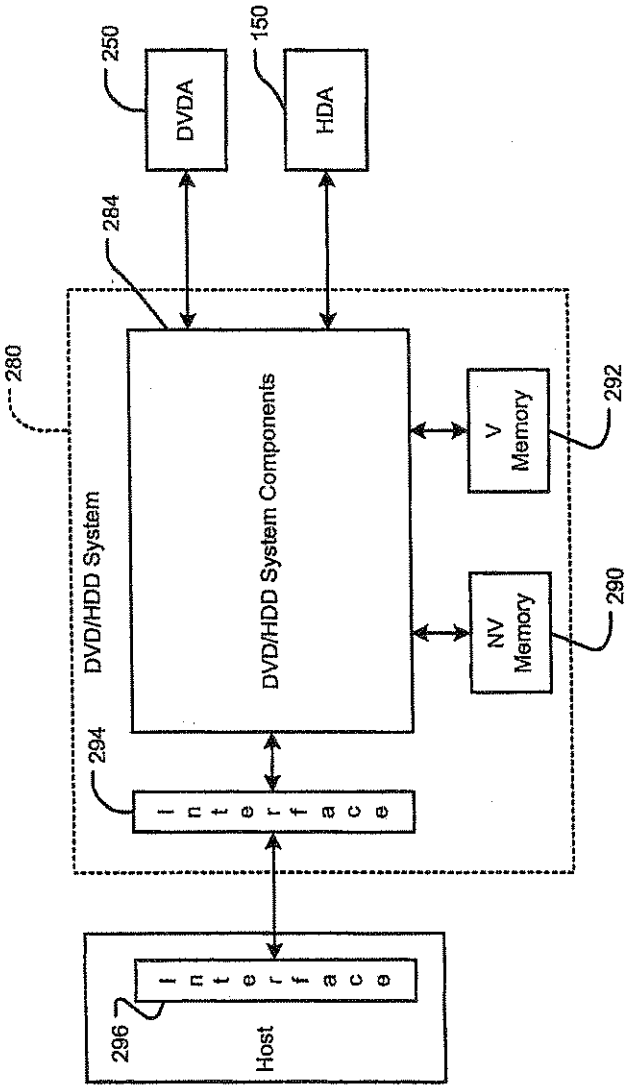

250
DVDA
150
HDA
284
280
DVD/HDD System
DVD/HDD System Components
V Memory
292
NV Memory
290
294
Interface
Host
296
Interface

FIG. 7C

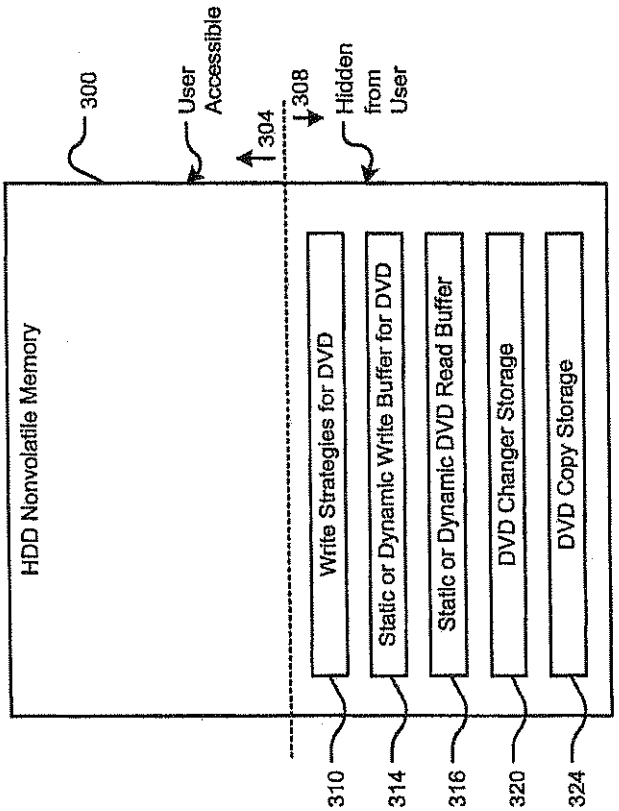

300
User Accessible
304
308
Hidden from User
HDD Nonvolatile Memory
Write Strategies for DVD
Static or Dynamic Write Buffer for DVD
Static or Dynamic DVD Read Buffer
DVD Changer Storage
DVD Copy Storage
310
314
316
320
324

FIG. 8

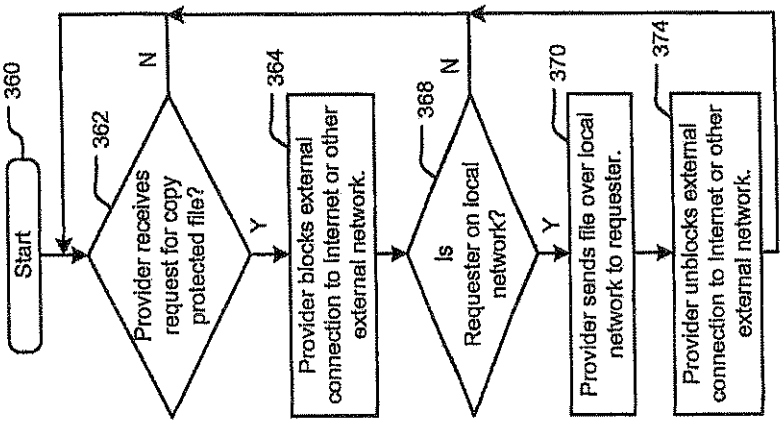

360
Start
362
Provider receives request for copy protected file?
N
Y
364
Provider blocks external connection to Internet or other external network.
368
Is Requester on local network?
N
Y
370
Provider sends file over local network to requester.
374
Provider unblocks external connection to Internet or other external network.

FIG. 9B

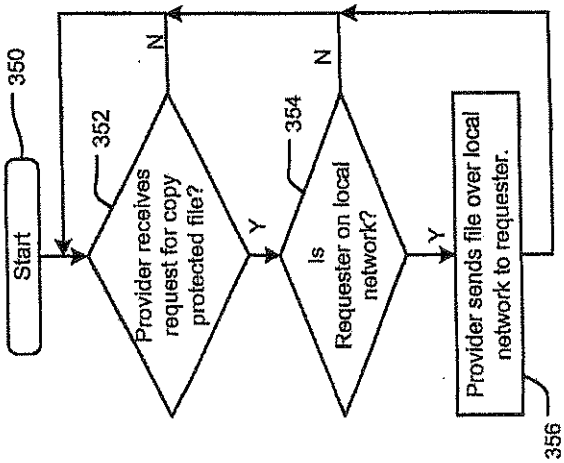

350
Start
352
Provider receives request for copy protected file?
N
Y
354
Is Requester on local network?
N
Y
Provider sends file over local network to requester.
356

FIG. 9A

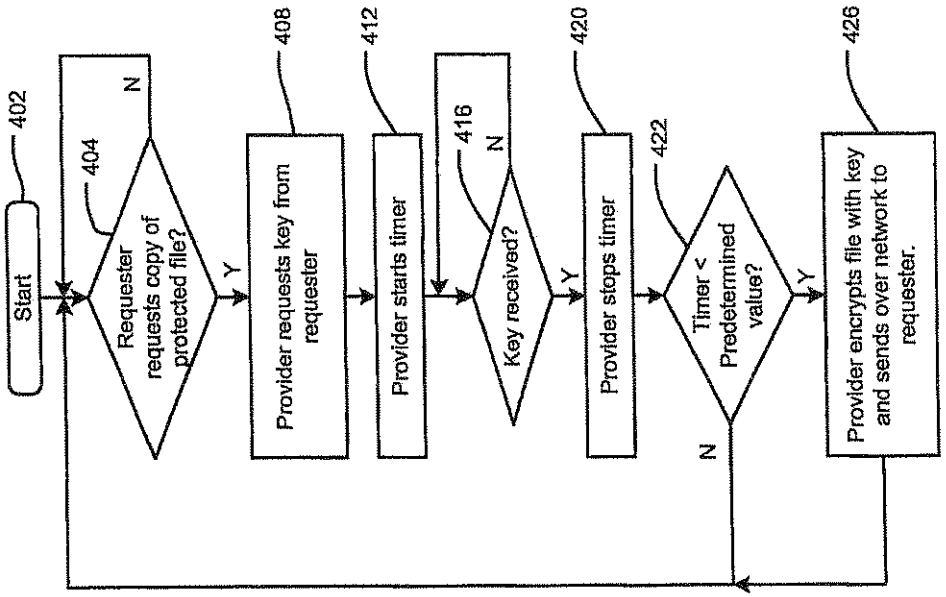

Start
402
Requester requests copy of protected file?
404
N
Y
Provider requests key from requester
408
Provider starts timer
412
Key received?
416
N
Y
Provider stops timer
420
Timer < Predetermined value?
422
N
Y
Provider encrypts file with key and sends over network to requester.
426

FIG. 9D

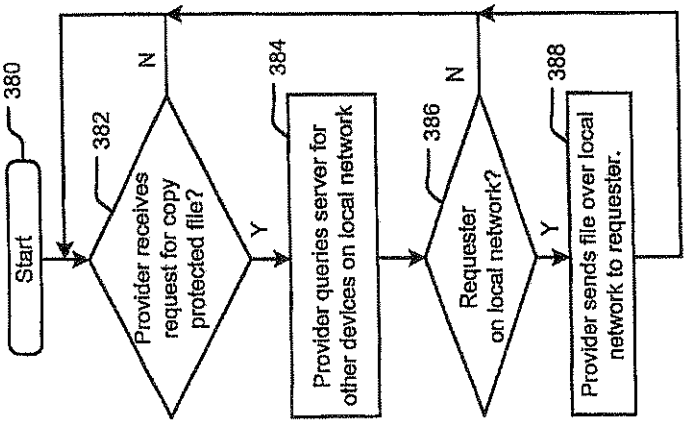

Start
380
Provider receives request for copy protected file?
382
N
Y
Provider queries server for other devices on local network
384
Requester on local network?
386
N
Y
Provider sends file over local network to requester.
388

FIG. 9C

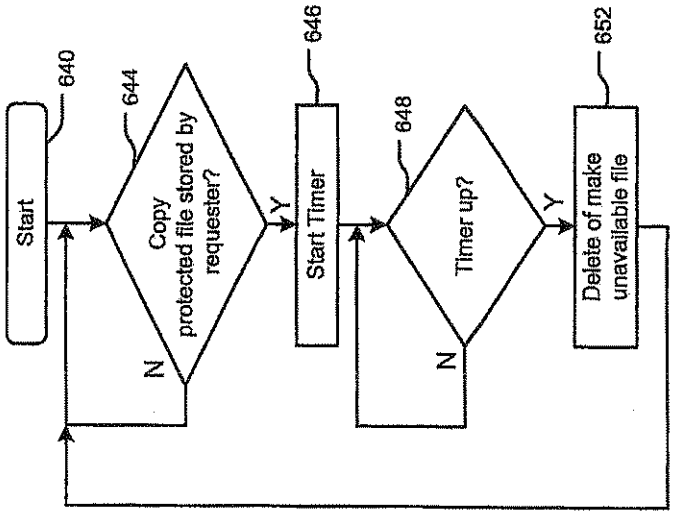

Start
640
Copy protected file stored by requester?
644
N
Y
Start Timer
646
Timer up?
648
N
Y
Delete of make unavailable file
652

FIG. 11

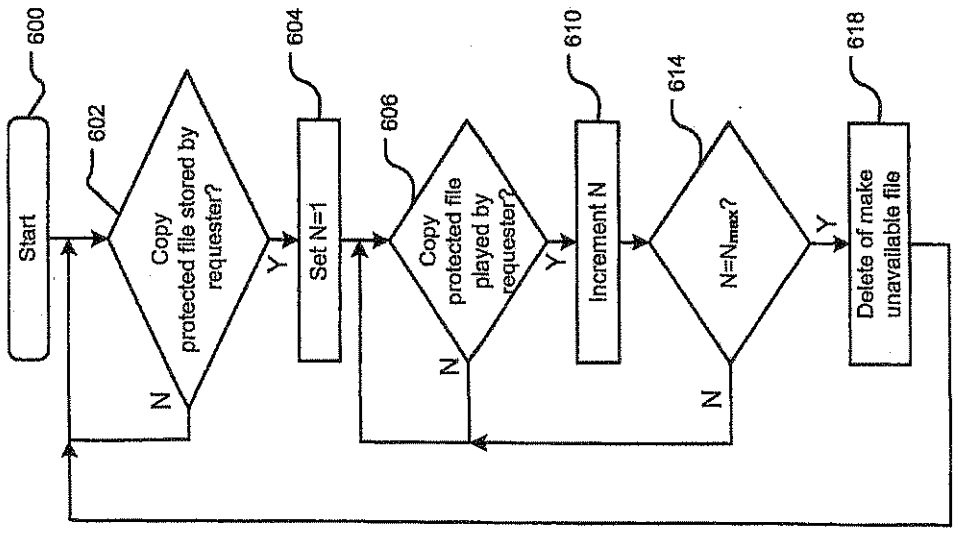
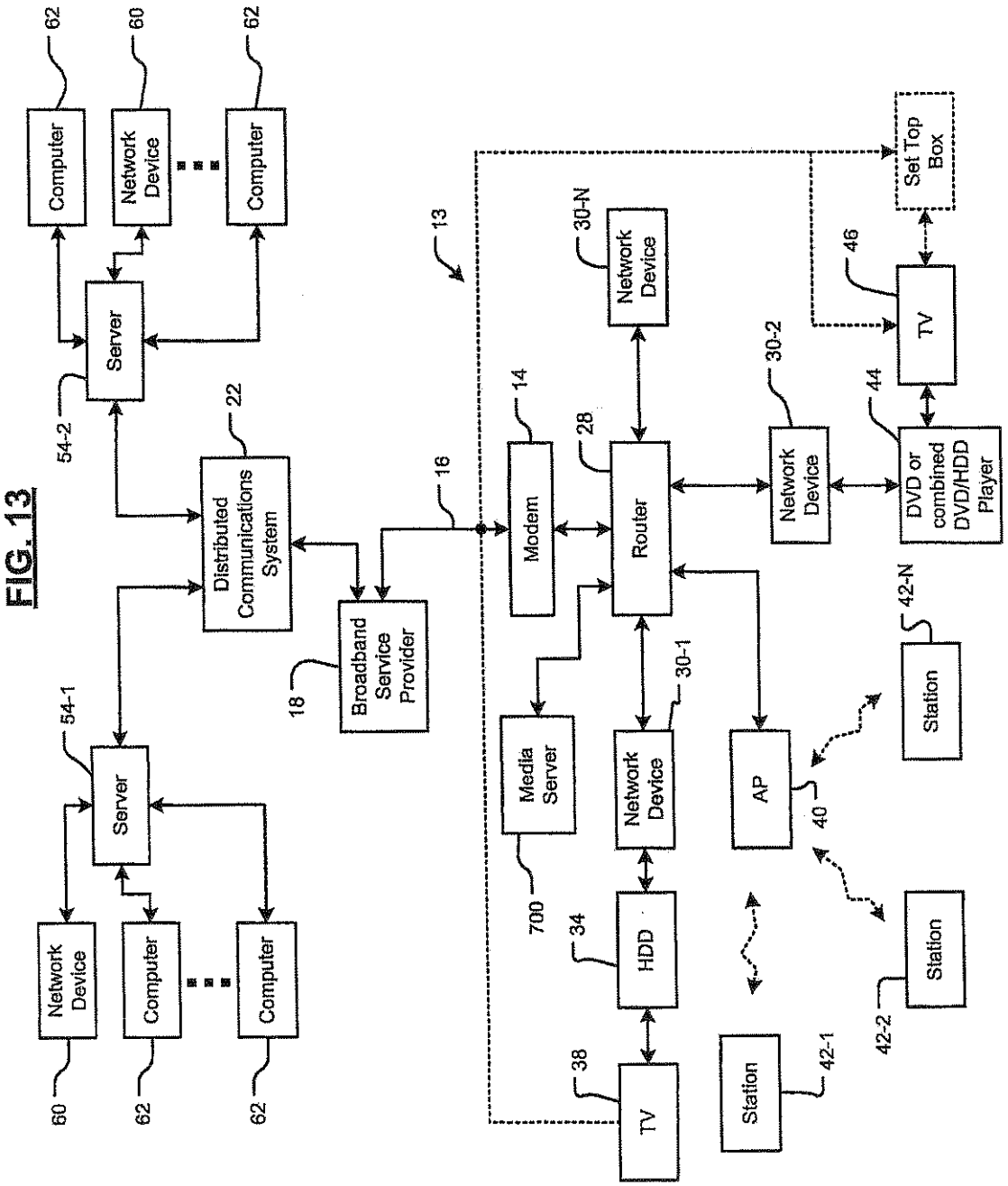

Start
600
Copy protected file stored by requester?
602
N
Y
Set N=1
604
Copy protected file played by requester?
606
N
Y
Increment N
610
N=Nmax?
614
N
Y
Delete of make unavailable file
618

FIG. 10

FIG. 13


Computer
Network Device
Computer
62
60
62
Server
54-2
Distributed Communications System
22
Broadband Service Provider
18
16
13
Modem
14
Router
28
Network Device
30-N
Network Device
30-2
DVD or combined DVD/HDD Player
44
TV
46
Set Top Box
Server
54-1
Network Device
Computer
Computer
60
62
62
Media Server
700
Network Device
30-1
HDD
34
TV
38
AP
40
Station
42-1
Station
42-2
Station
42-N

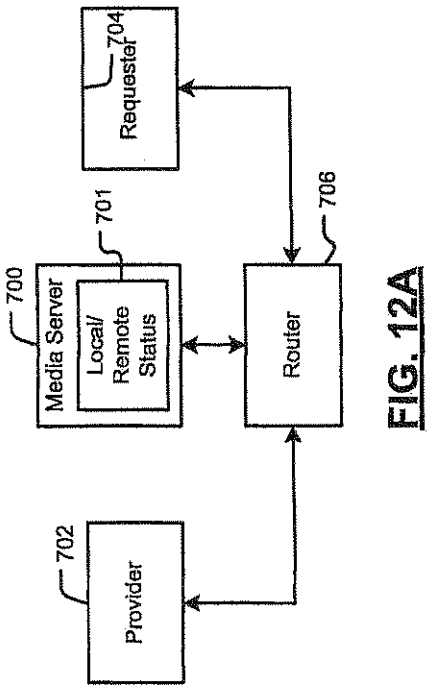


FIG. 12A

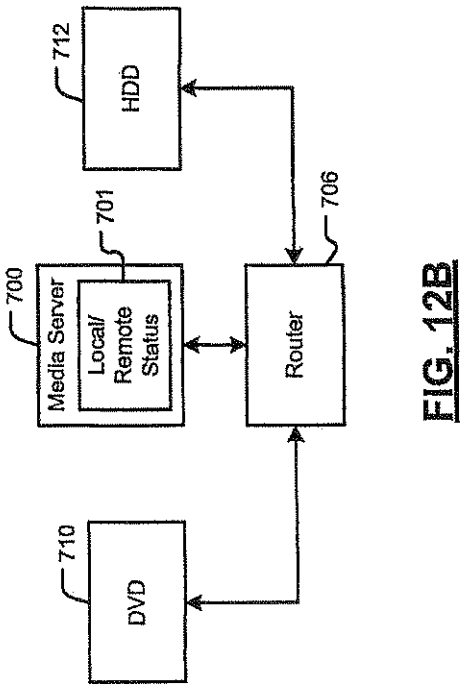


FIG. 12B

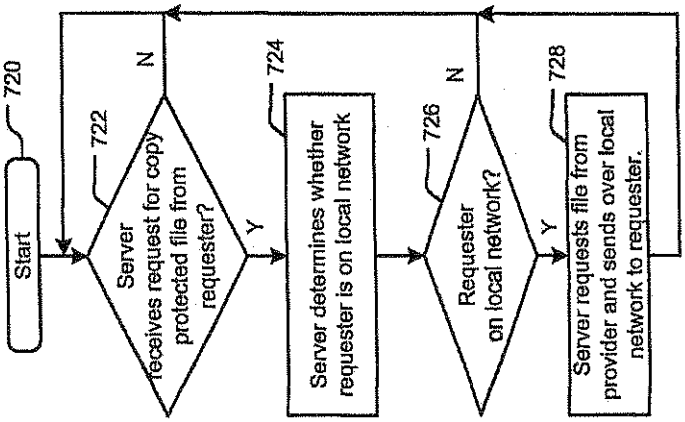


FIG. 14

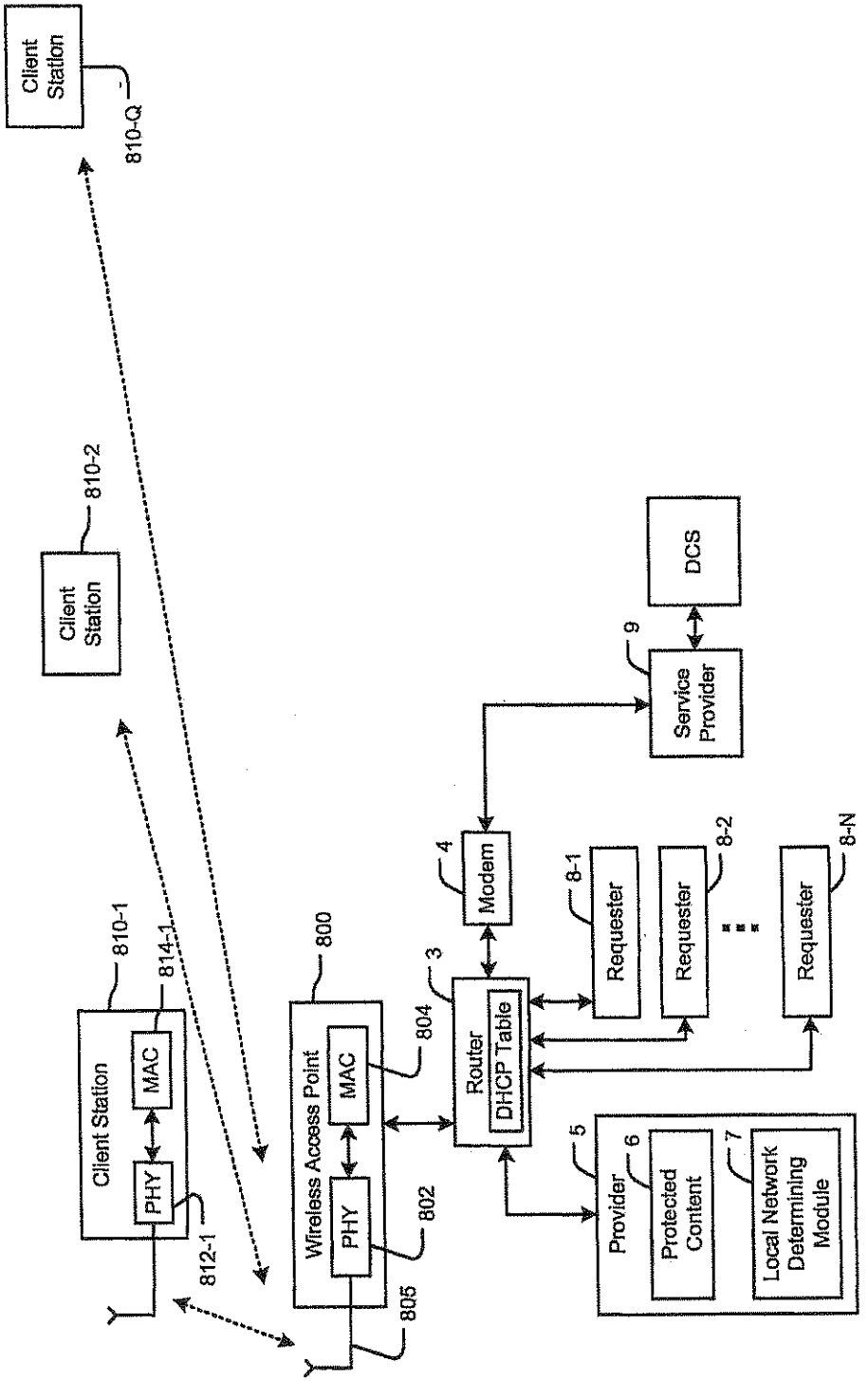

Client Station
810-Q
Client Station
810-2
Client Station
MAC
PHY
810-1
814-1
812-1
Wireless Access Point
MAC
PHY
800
804
802
805
Router
DHCP Table
3
Modem
4
Requester
8-1
Requester
8-2
Requester
8-N
Provider
5
Protected Content
6
Local Network Determining Module
7
Service Provider
9
DCS

FIG. 15

FIG. 16A

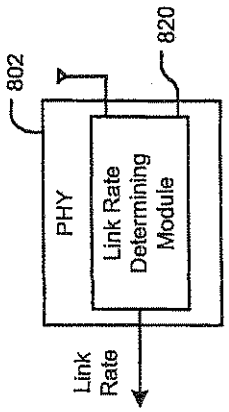


FIG. 16B

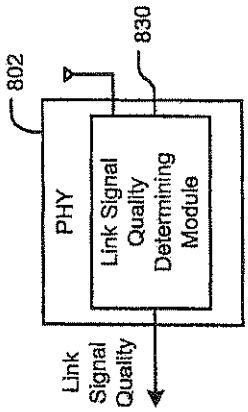


FIG. 16C

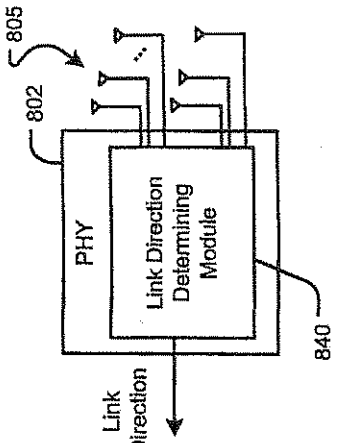


FIG. 16D

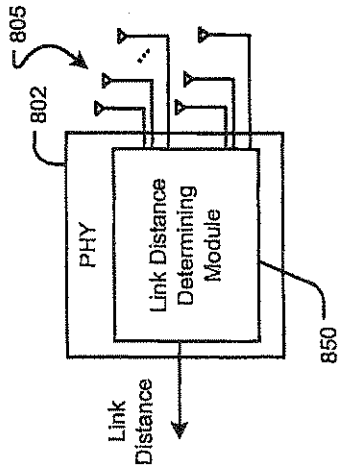
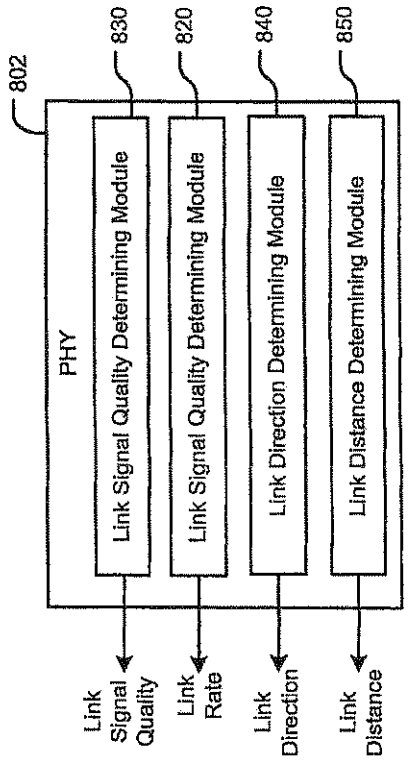


FIG. 16E



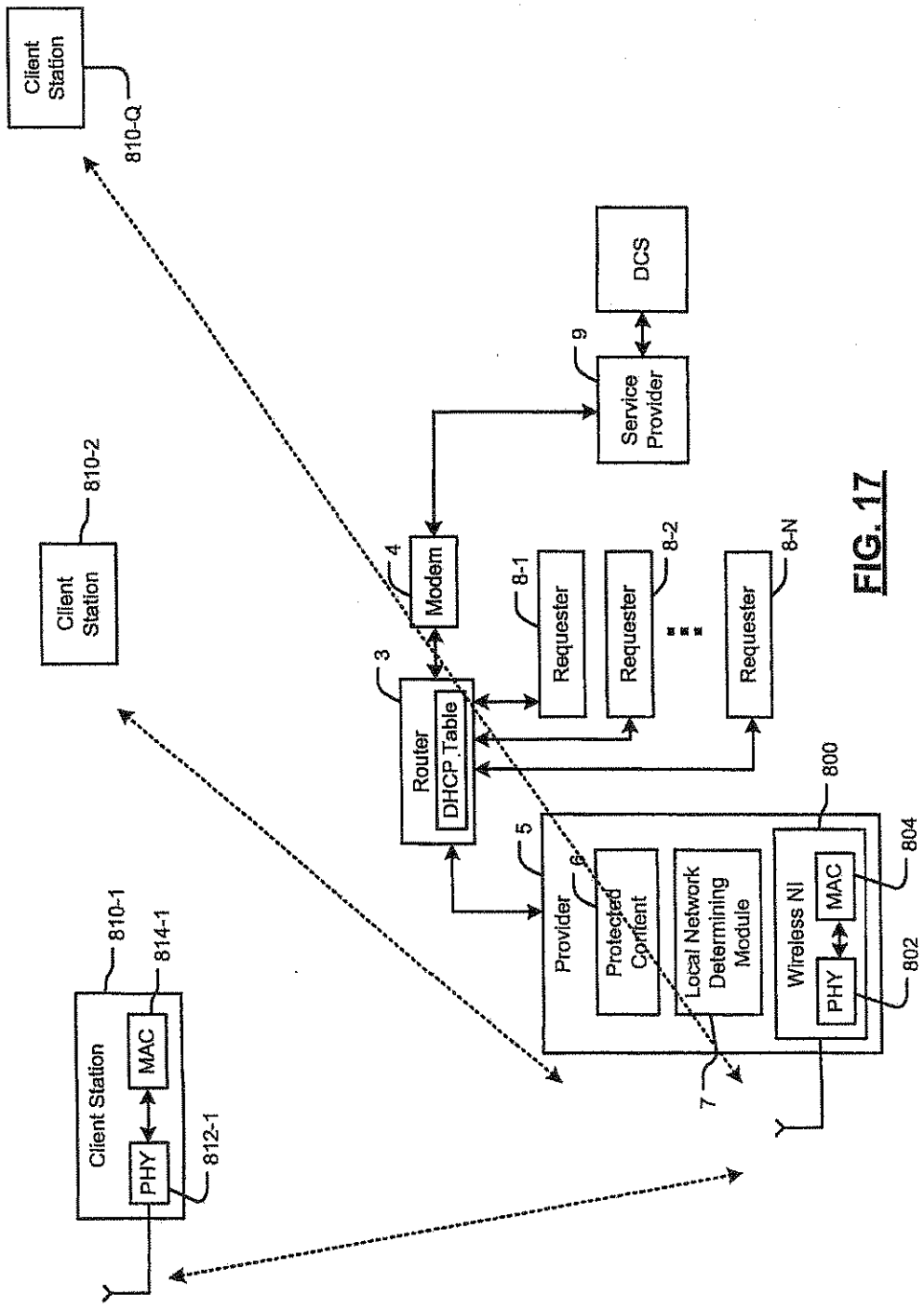

Client Station
810-Q
DCS
9
Service Provider
Client Station
810-2
4
Modem
8-1
Requester
Requester
8-2
Requester
8-N
3
Router
DHCP Table
800
5
Provider
6
Protected Content
Local Network Determining Module
Wireless NI
MAC
804
PHY
802
7
Client Station
810-1
814-1
MAC
PHY
812-1

FIG. 17

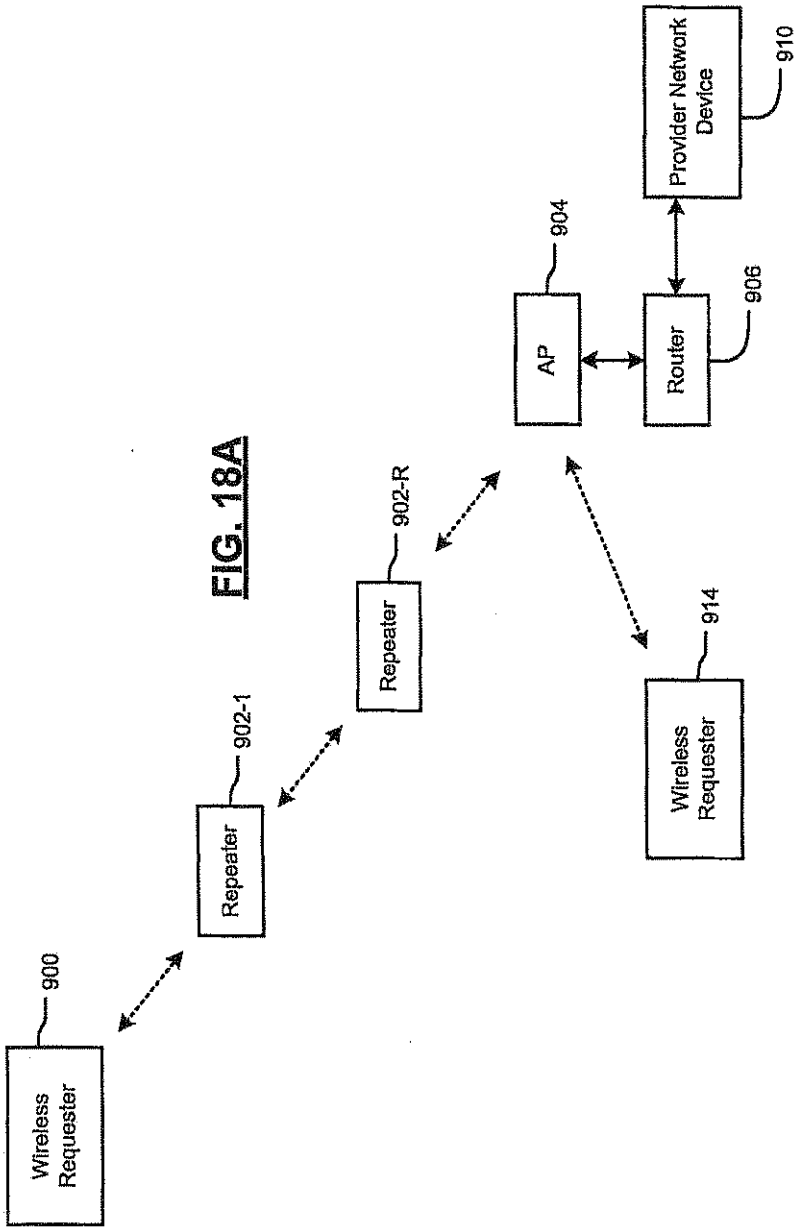

Wireless Requester
900
Repeater
902-1
Repeater
902-R
AP
904
Router
906
Provider Network Device
910
Wireless Requester
914

FIG. 18A

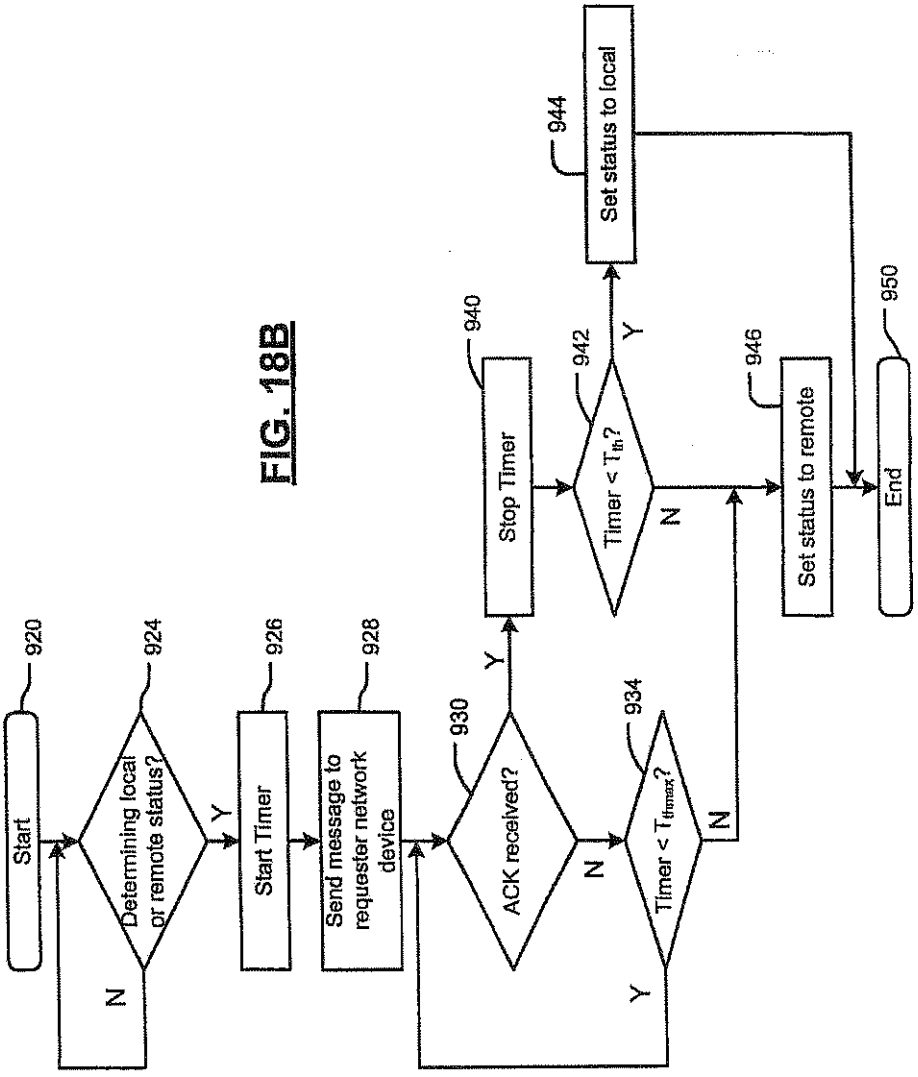

Start
920
Determining local or remote status?
924
N
Y
Start Timer
926
Send message to requester network device
928
ACK received?
930
N
Y
Timer < T_{thmax}?
934
N
Y
Stop Timer
940
Timer < T_{th}?
942
N
Y
Set status to local
944
Set status to remote
946
End
950

FIG. 18B

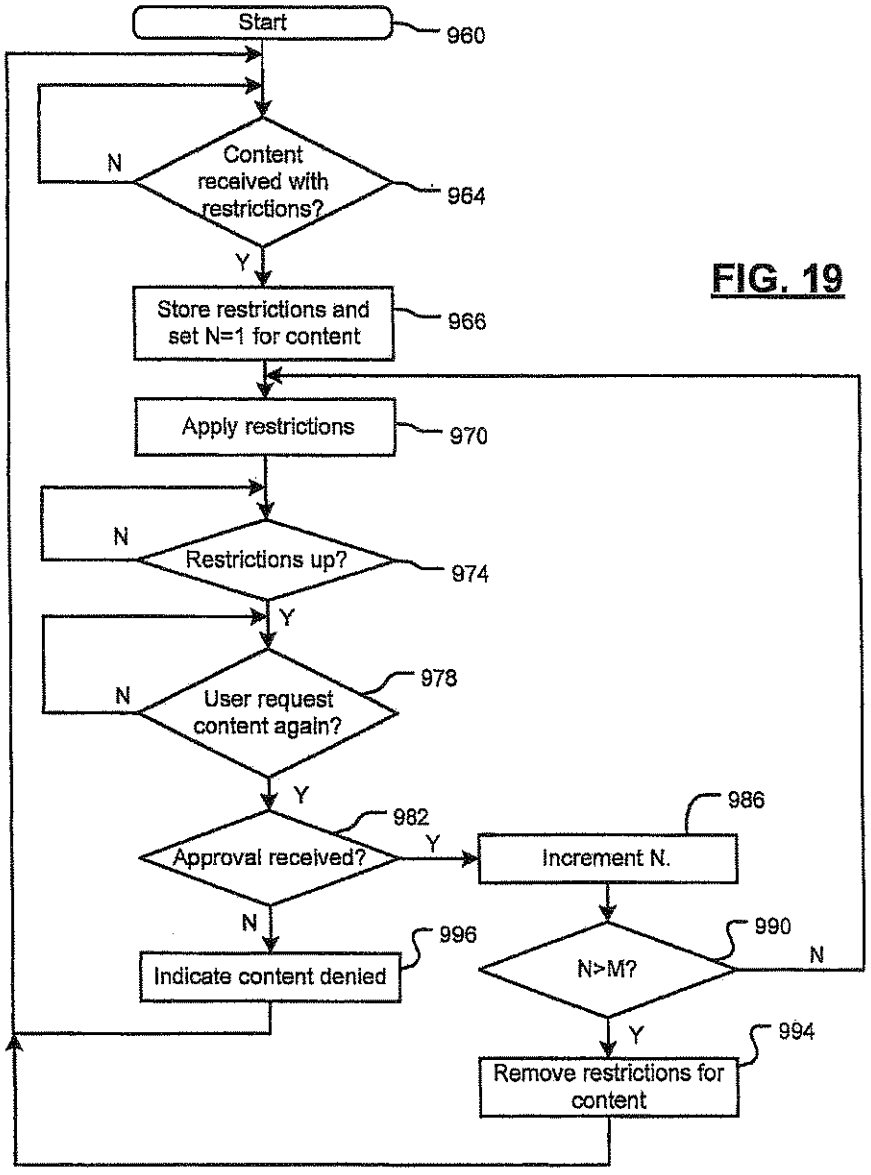

Start
960
Content received with restrictions?
964
N
Y
Store restrictions and set N=1 for content
966
Apply restrictions
970
Restrictions up?
974
N
Y
User request content again?
978
N
Y
Approval received?
982
Y
N
Increment N.
986
N>M?
990
N
Y
Indicate content denied
996
Remove restrictions for content
994

FIG. 19