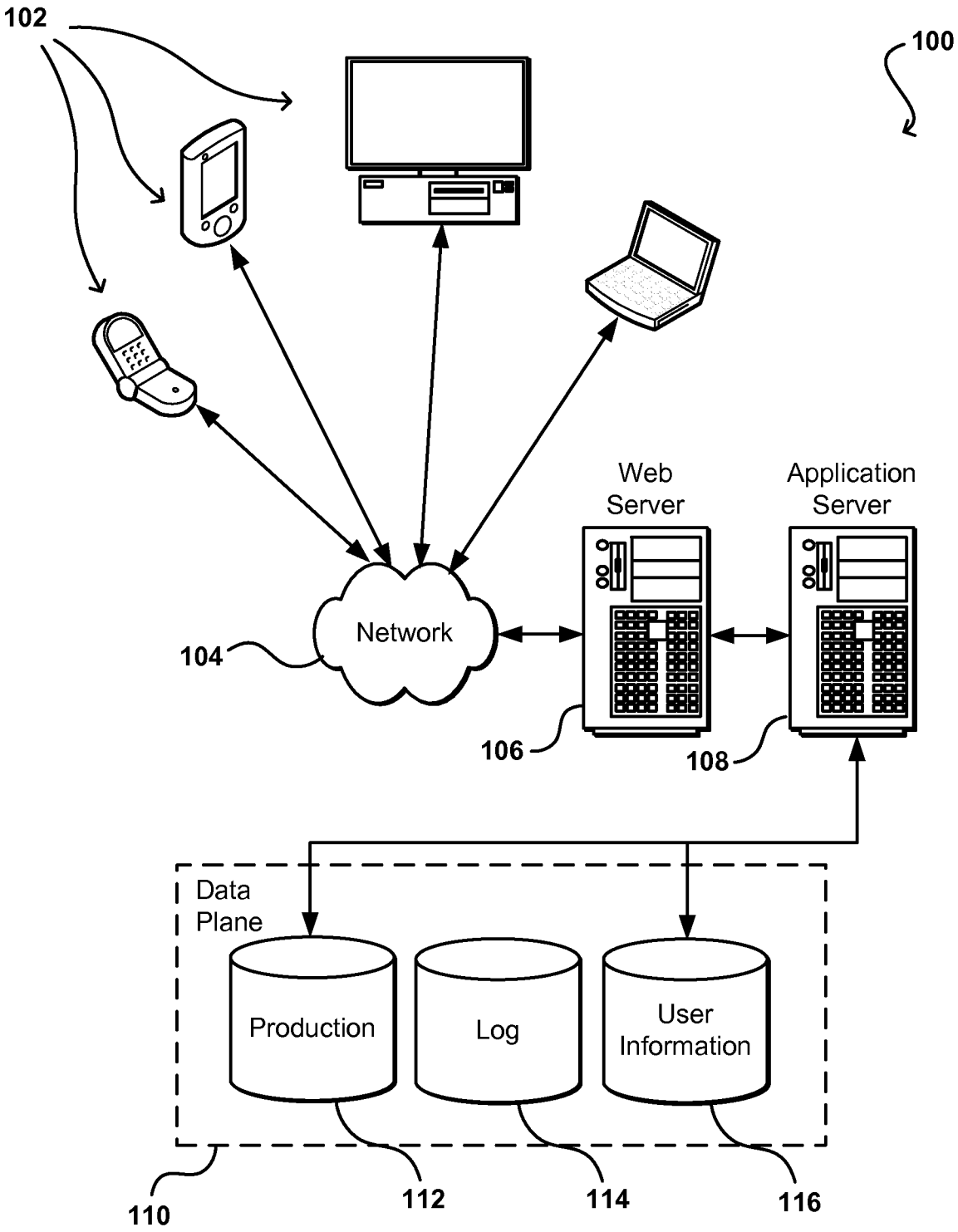
102
100
Web
Server
Application
Server
Network
104
106
108
Data
Plane
Production
Log
User
Information
110
112
114
116

FIG. 1

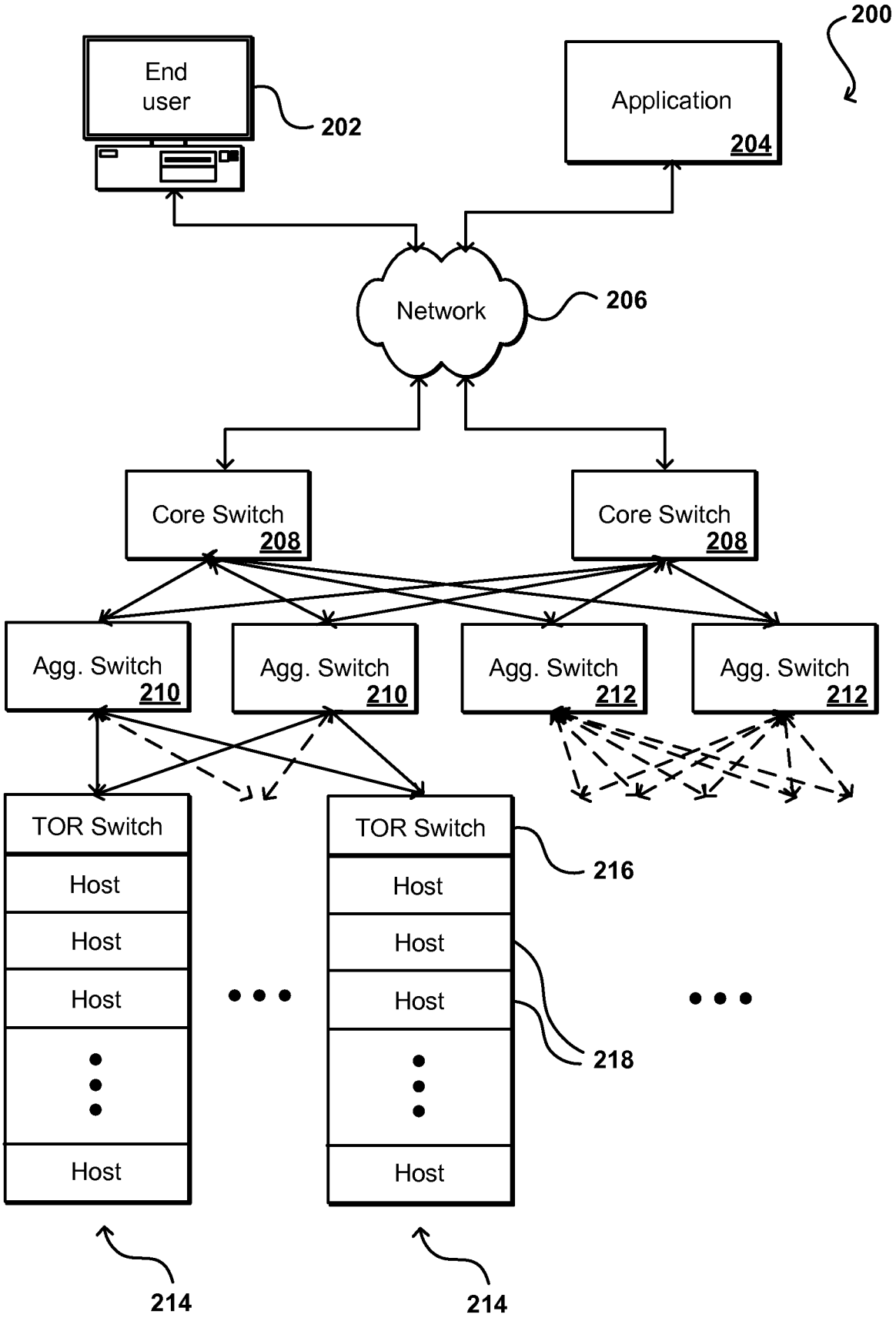
200
End user
202
Application
204
Network
206
Core Switch
208
Core Switch
208
Agg. Switch
210
Agg. Switch
210
Agg. Switch
212
Agg. Switch
212
TOR Switch
Host
Host
Host
Host
TOR Switch
216
Host
Host
Host
218
214
214

FIG. 2

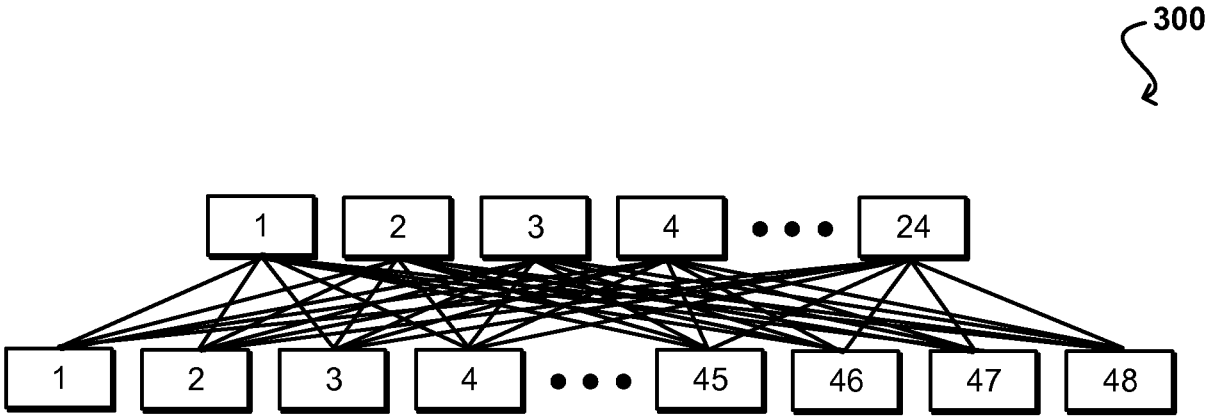
300
1
2
3
4
24
1
2
3
4
45
46
47
48

FIG. 3

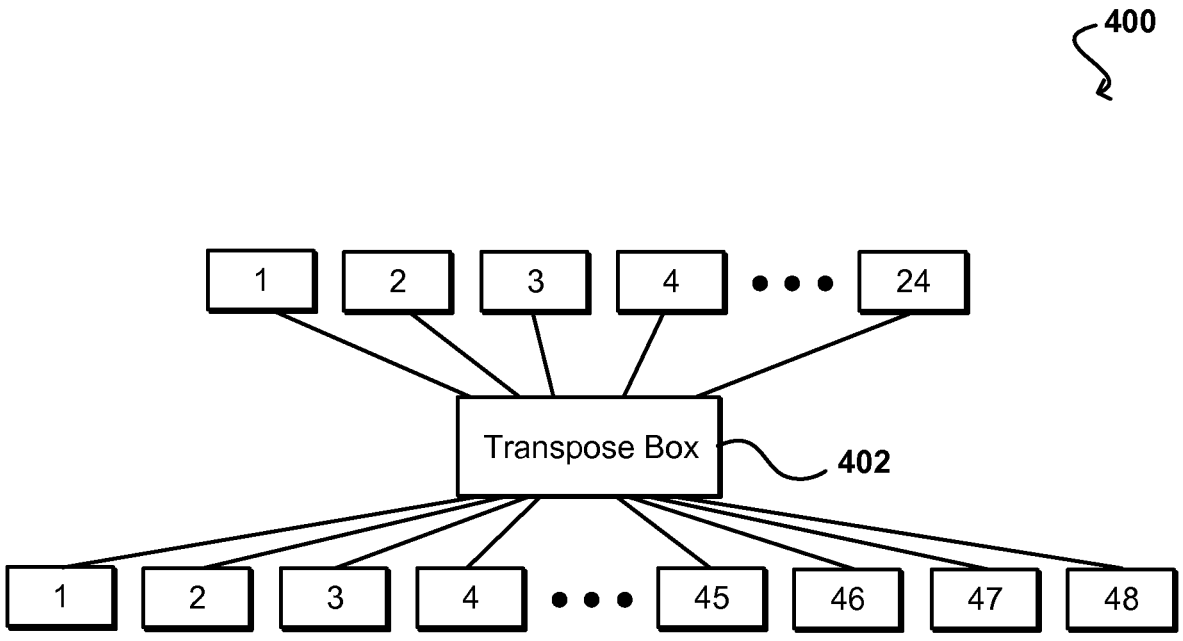
400
1
2
3
4
24
Transpose Box
402
1
2
3
4
45
46
47
48

FIG. 4

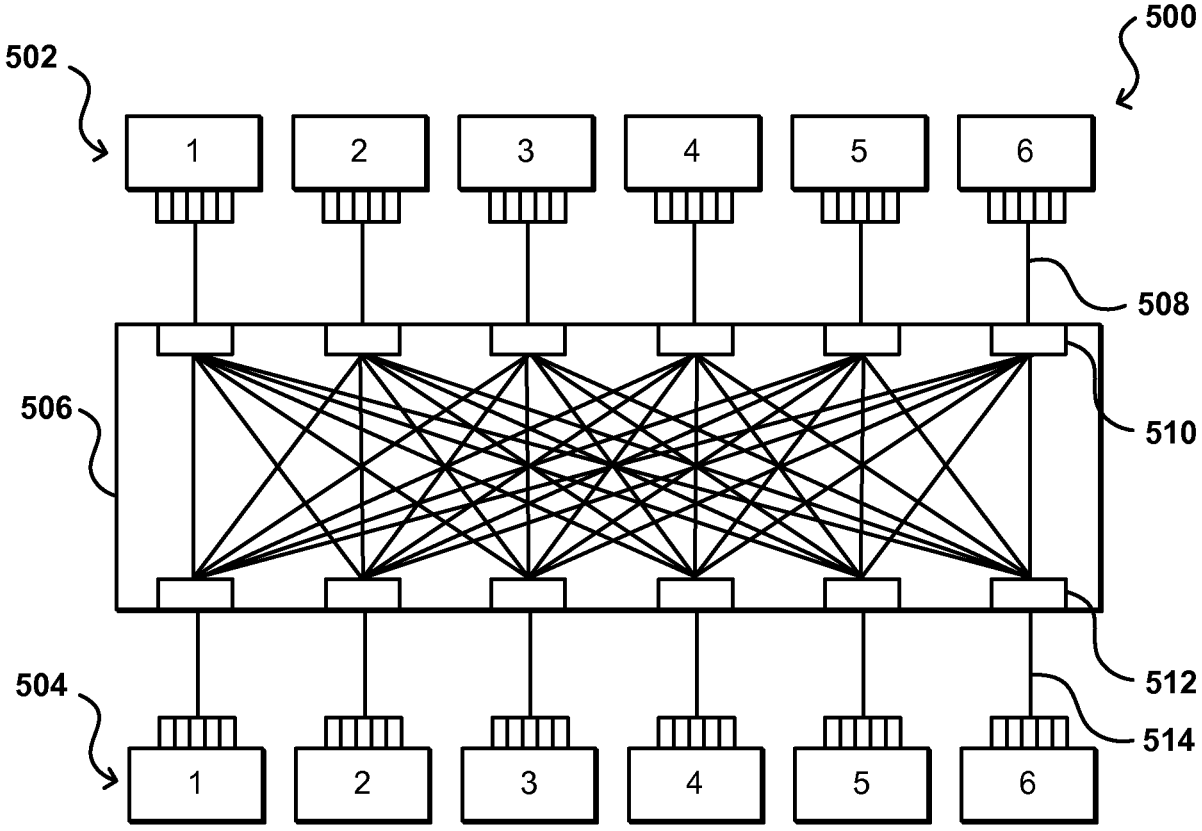
500
502
1
2
3
4
5
6
508
506
510
512
504
514
1
2
3
4
5
6

FIG. 5

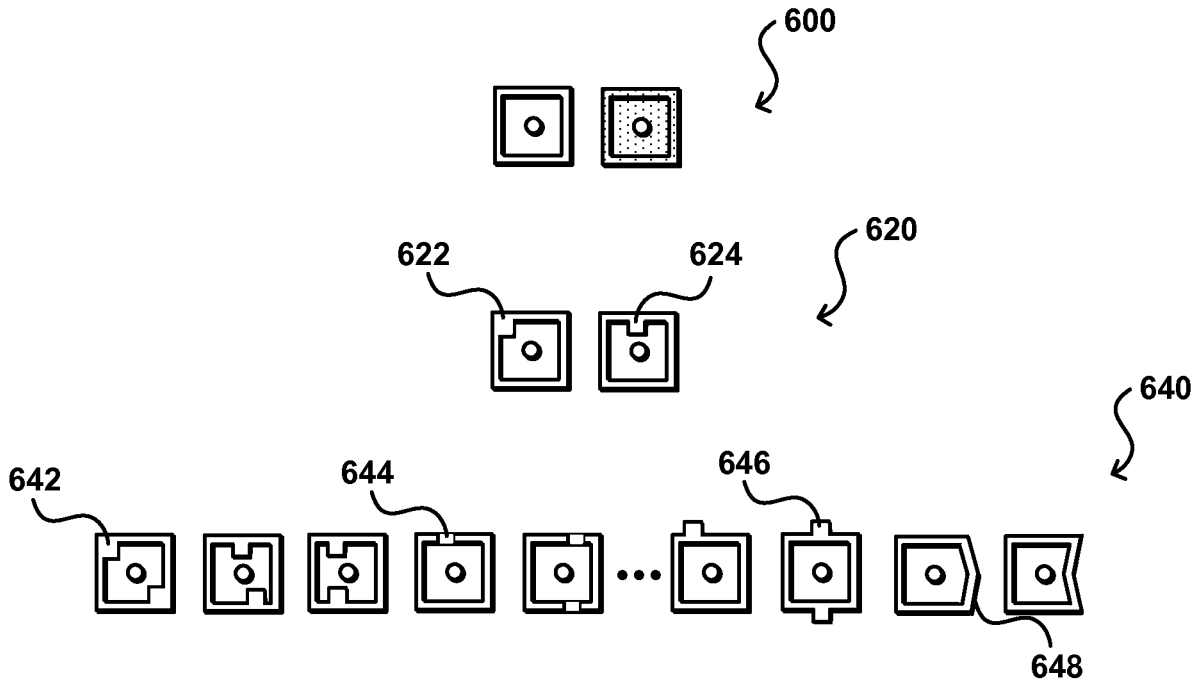
600
620
622
624
640
642
644
646
648

FIG. 6

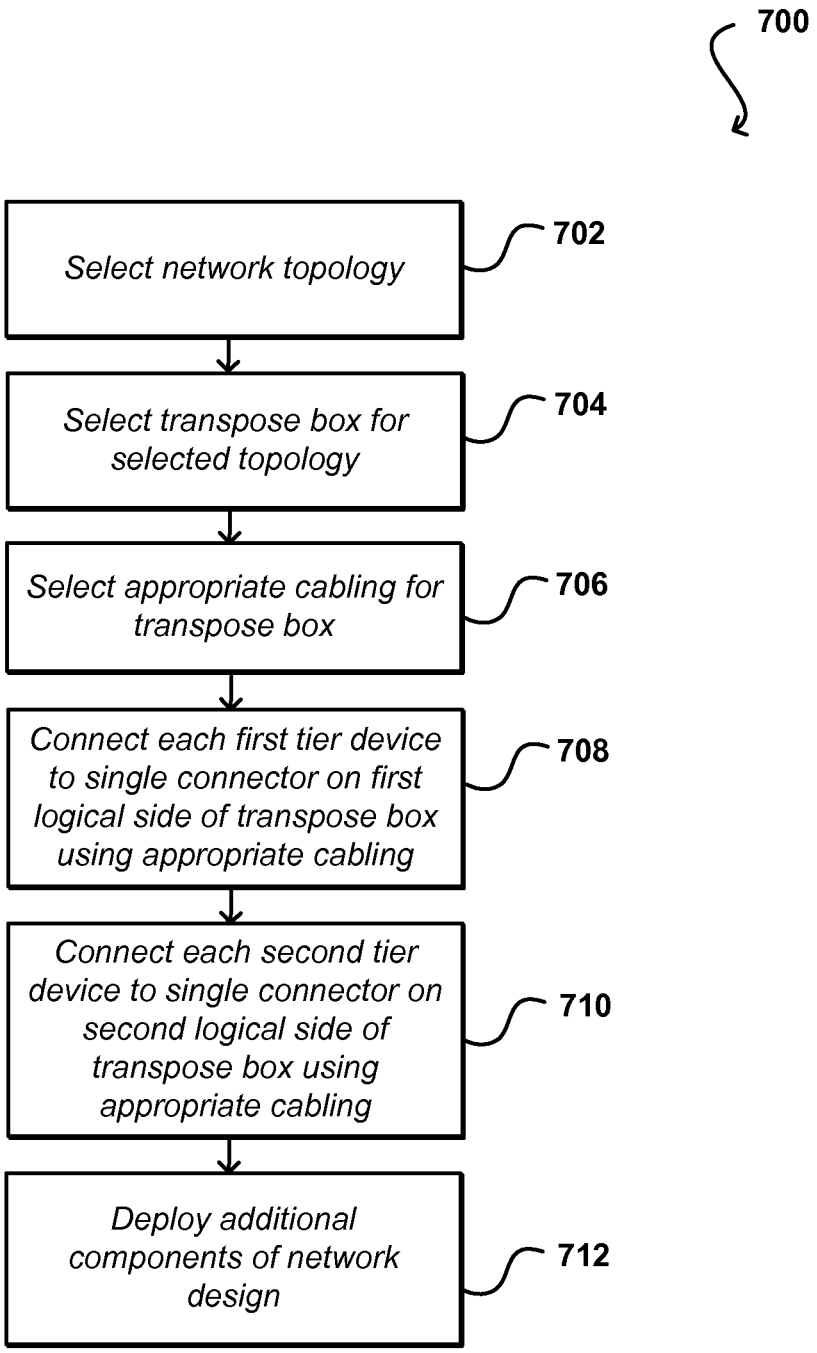
700
Select network topology
702
Select transpose box for selected topology
704
Select appropriate cabling for transpose box
706
Connect each first tier device to single connector on first logical side of transpose box using appropriate cabling
708
Connect each second tier device to single connector on second logical side of transpose box using appropriate cabling
710
Deploy additional components of network design
712

FIG. 7

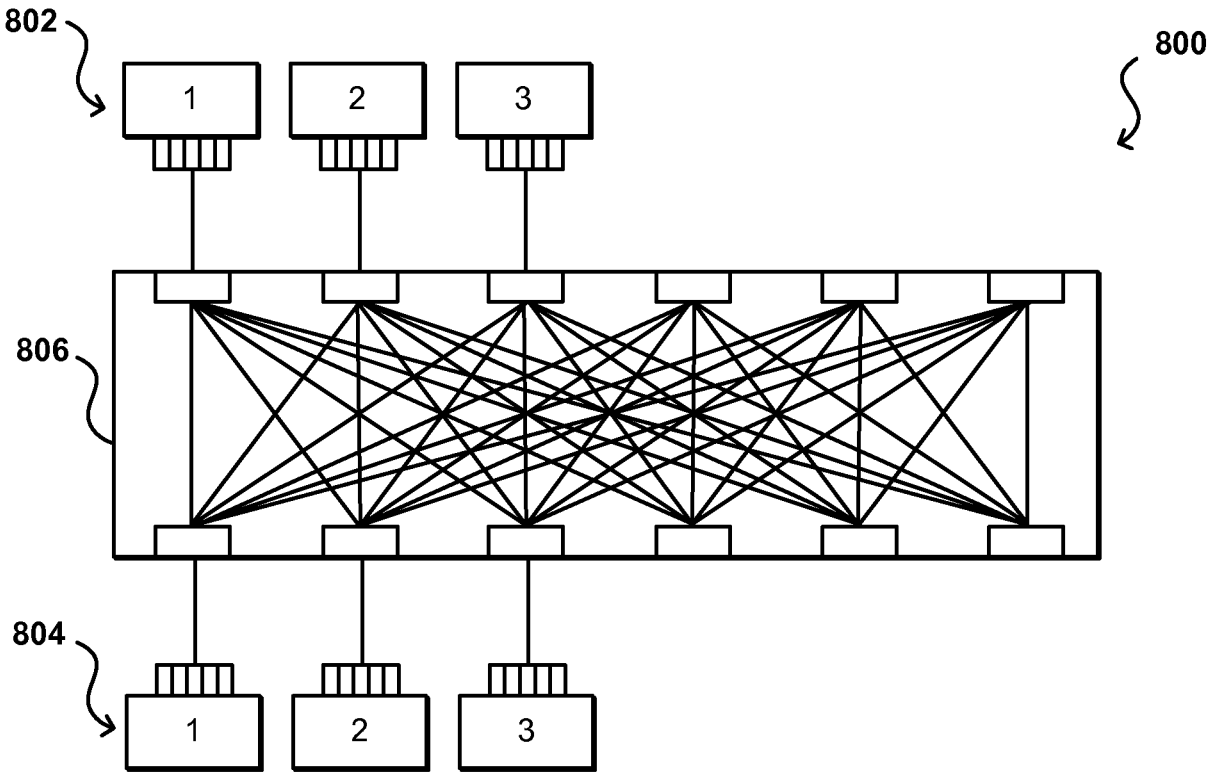

FIG. 8(a)

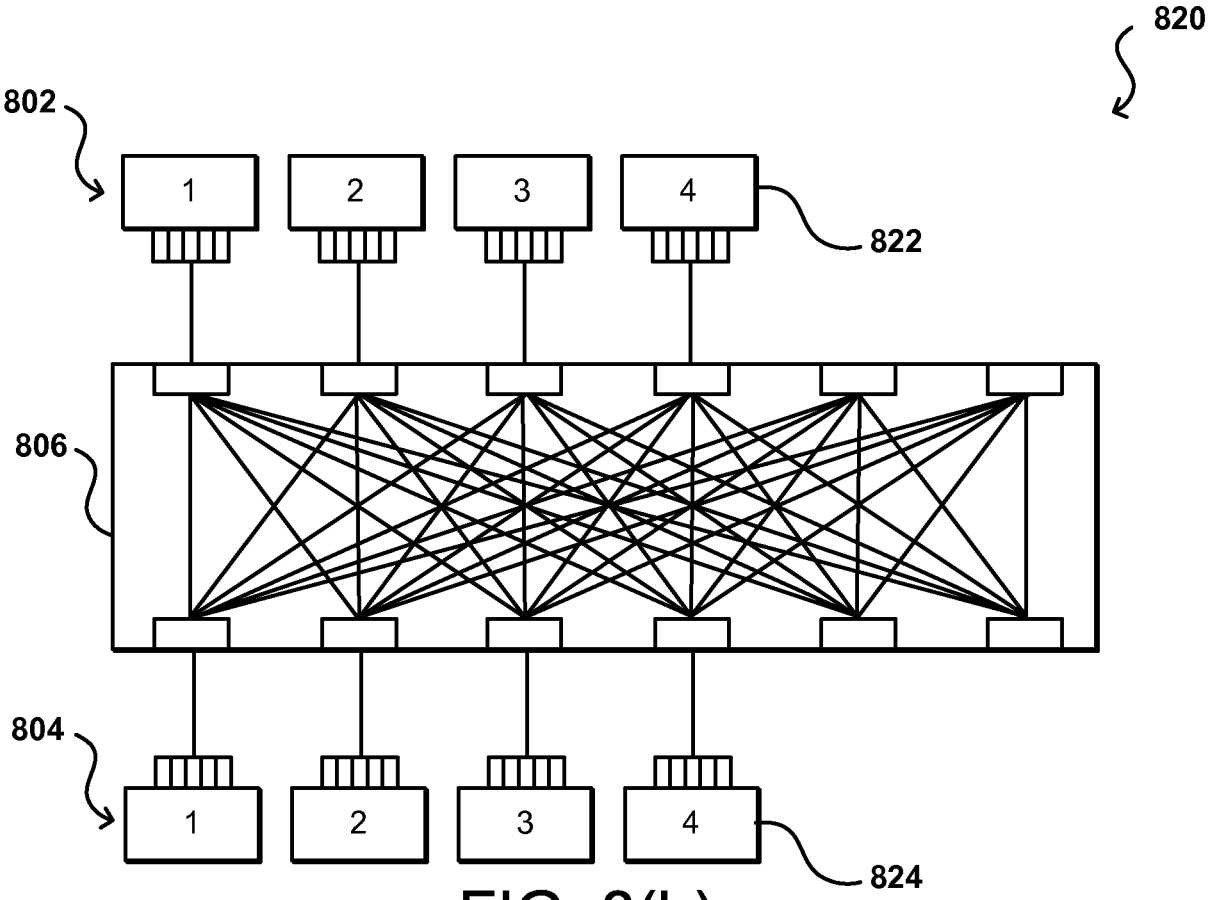

FIG. 8(b)

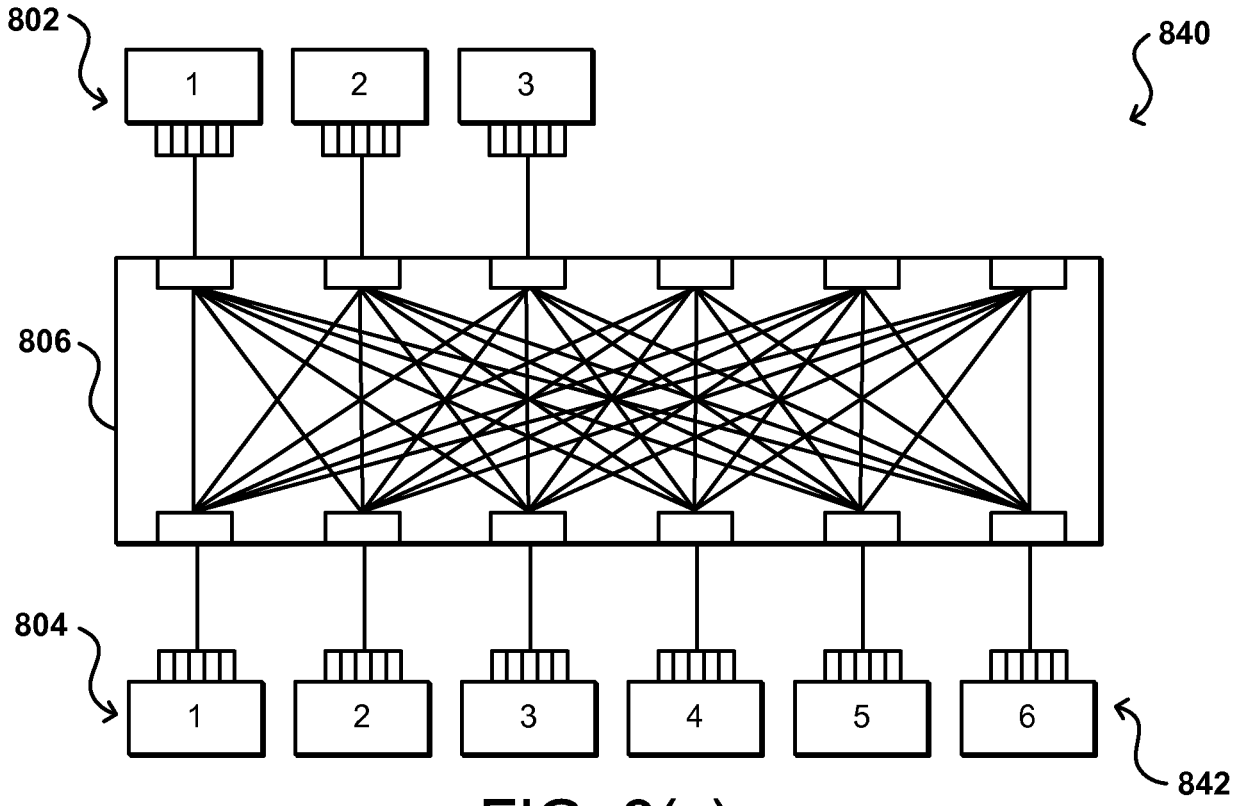

FIG. 8(c)

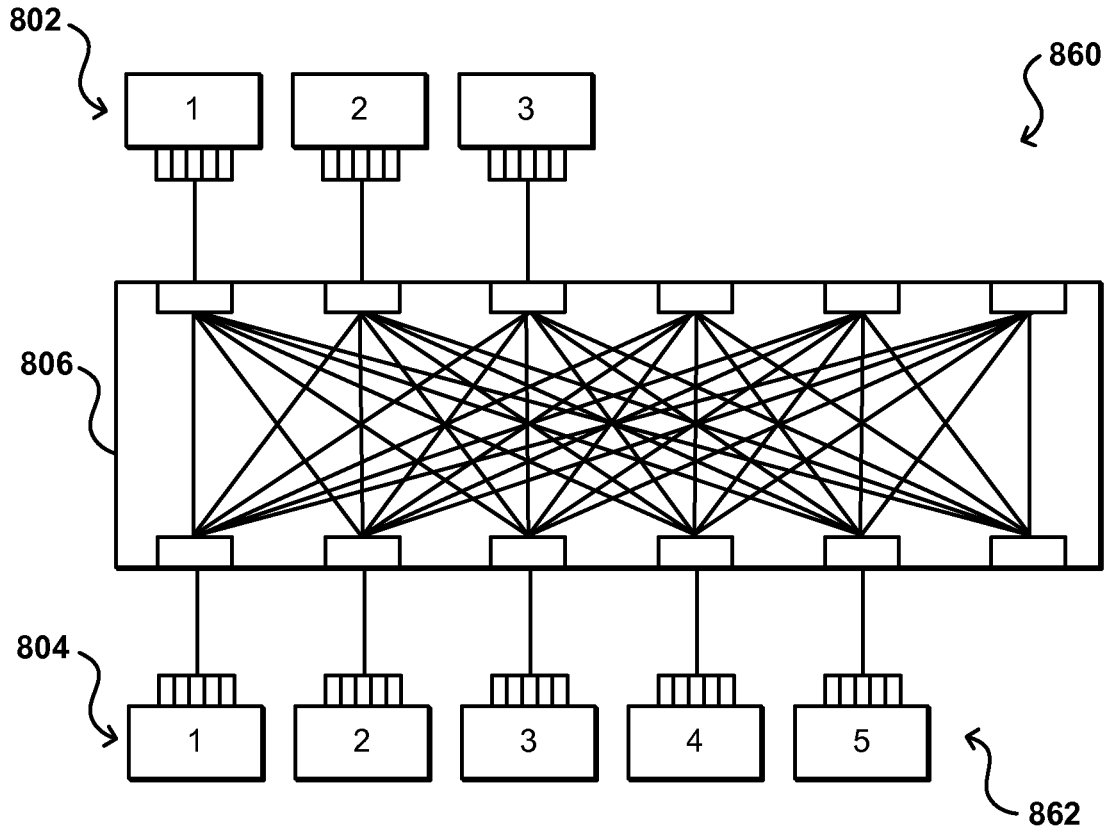

FIG. 8(d)

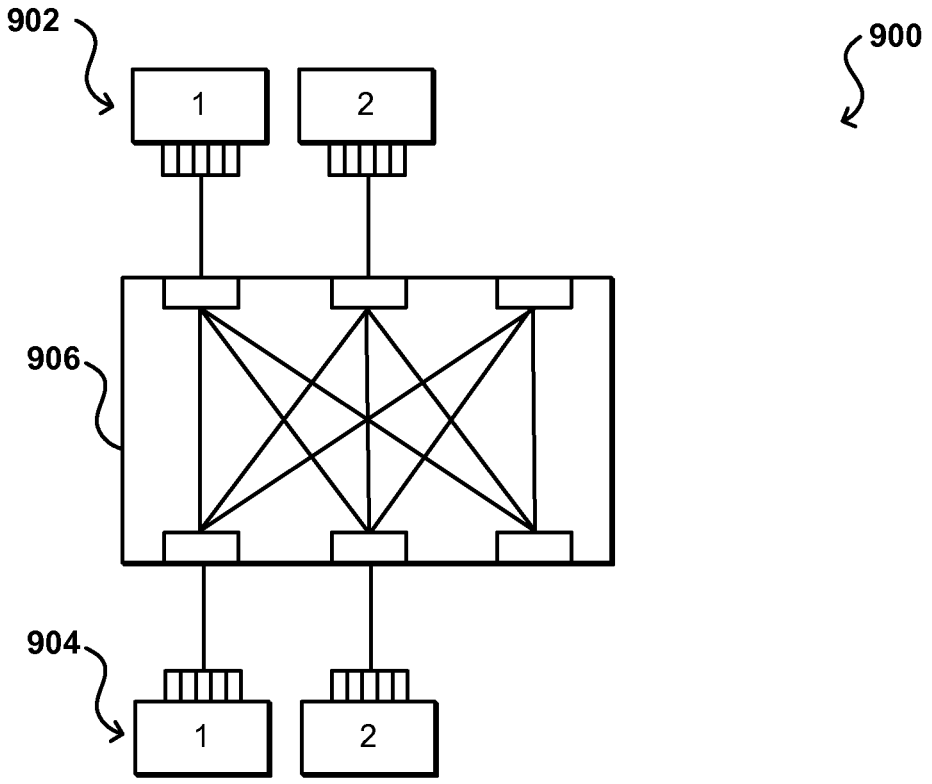

FIG. 9(a)

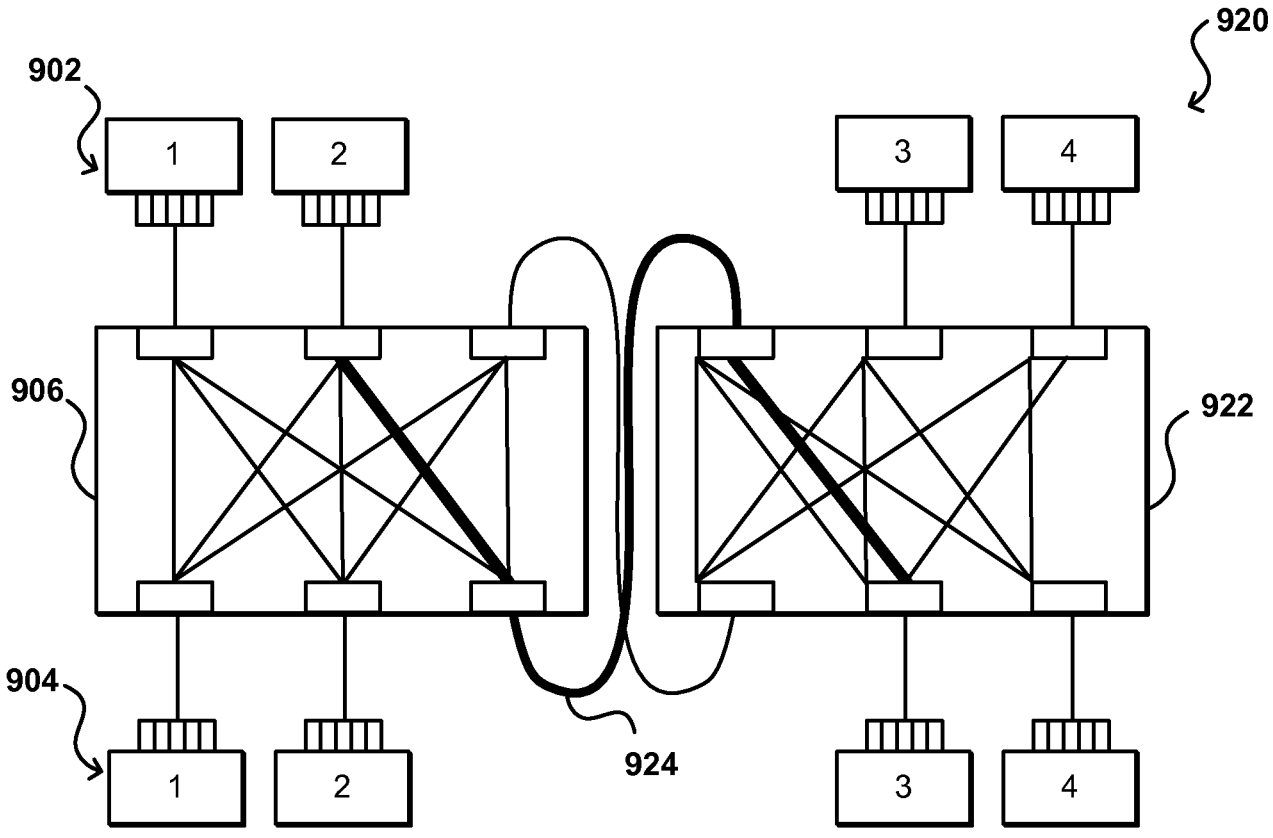

FIG. 9(b)

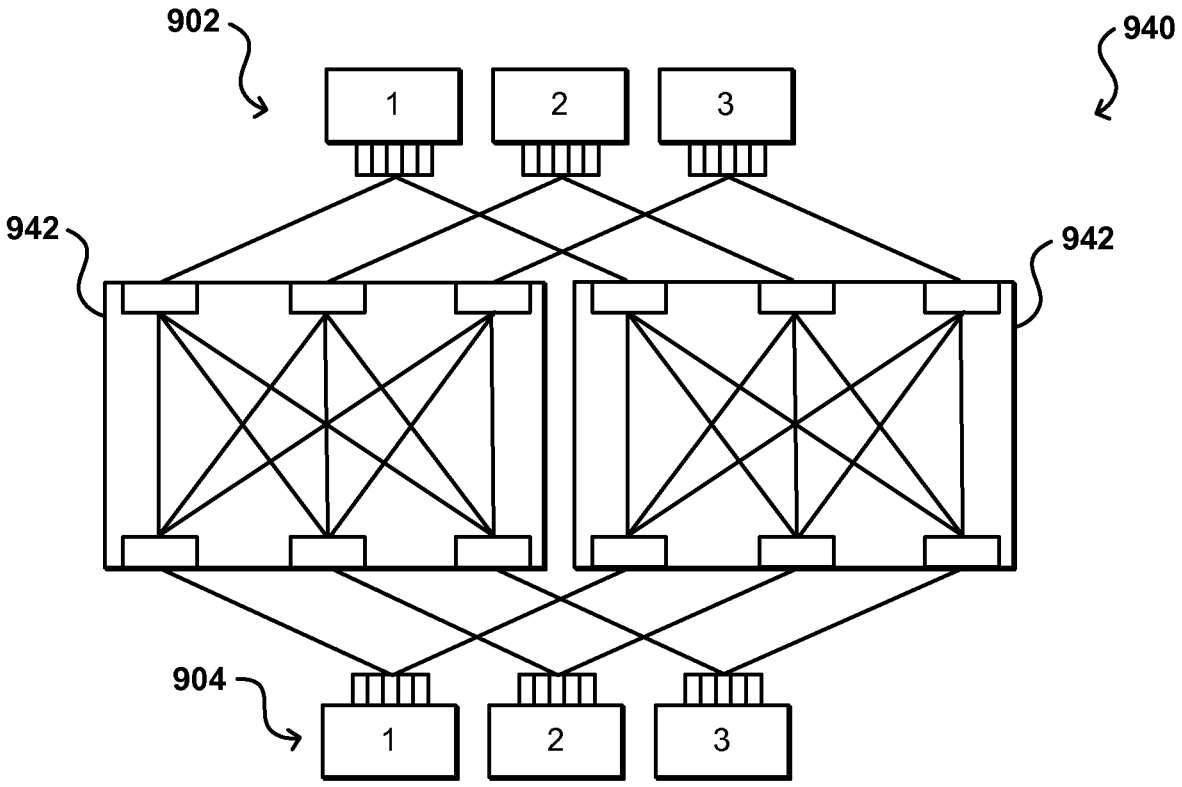

FIG. 9(c)

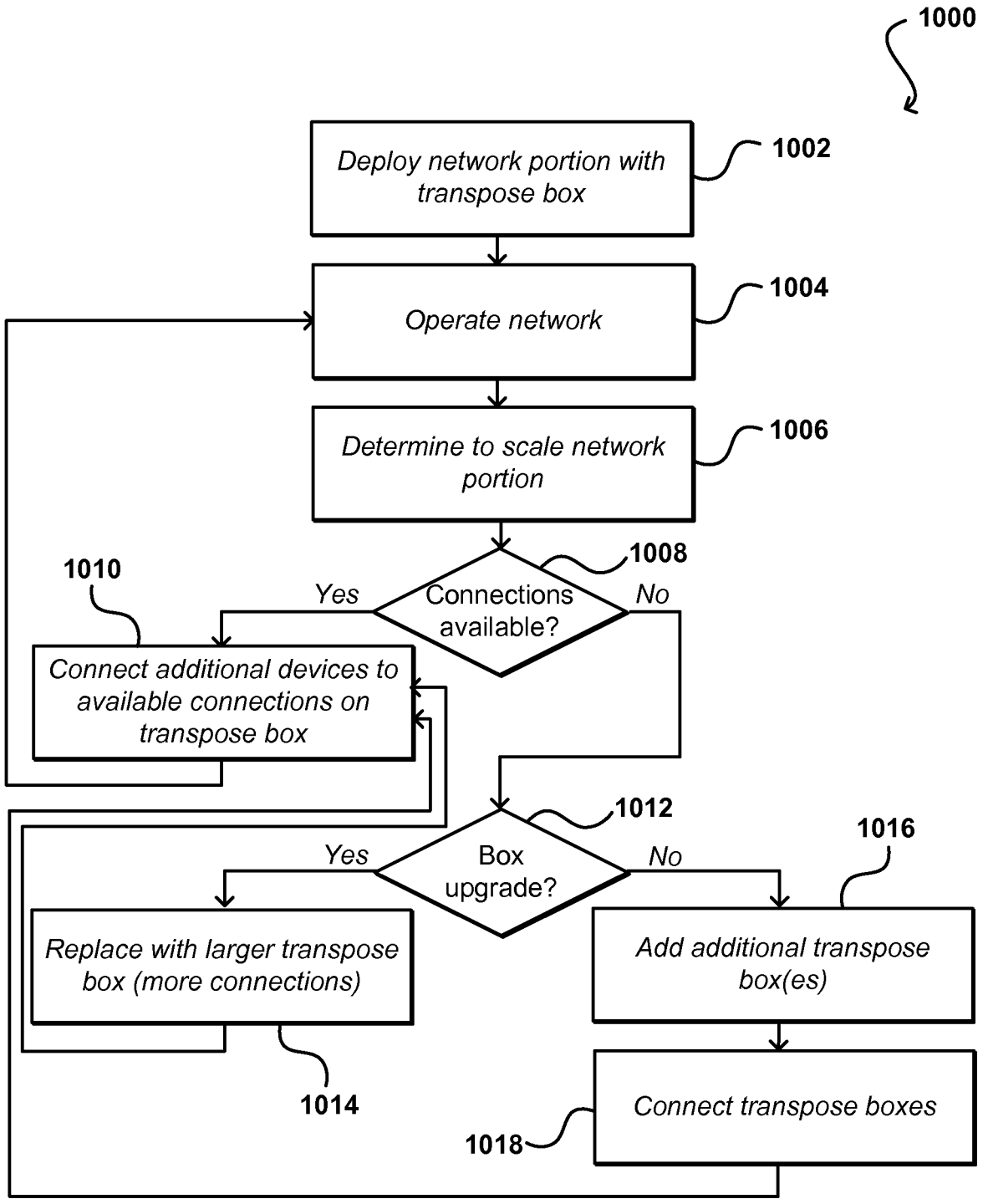
1000
Deploy network portion with transpose box
1002
Operate network
1004
Determine to scale network portion
1006
1008
Connections available?
Yes
No
1010
Connect additional devices to available connections on transpose box
1012
Box upgrade?
Yes
No
1016
Replace with larger transpose box (more connections)
Add additional transpose box(es)
1014
Connect transpose boxes
1018

FIG. 10