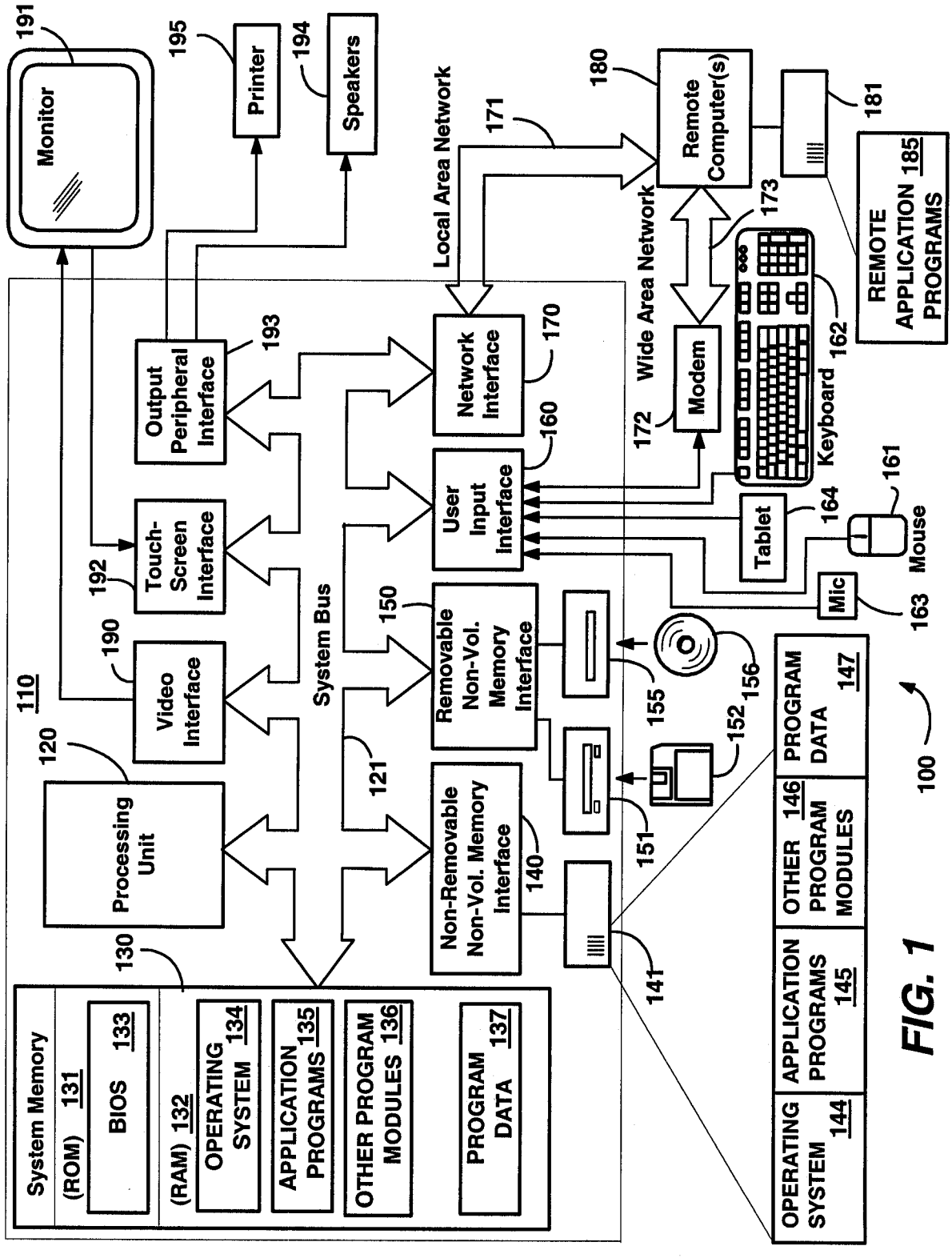

Monitor
191
Printer
195
Speakers
194
Output Peripheral Interface
193
Network Interface
170
Local Area Network
171
Remote Computer(s)
180
Wide Area Network
173
Modem
172
Keyboard
162
Tablet
164
Mouse
161
Mic
163
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181
Touch-Screen Interface
192
User Input Interface
160
Video Interface
190
System Bus
Removable Non-Vol. Memory Interface
150
Non-Removable Non-Vol. Memory Interface
140
Processing Unit
120
110
121
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152
151
141
100
System Memory
130
(ROM) 131
BIOS 133
(RAM) 132
OPERATING SYSTEM 134
APPLICATION PROGRAMS 135
OTHER PROGRAM MODULES 136
PROGRAM DATA 137
OPERATING SYSTEM 144
APPLICATION PROGRAMS 145
OTHER PROGRAM MODULES 146
PROGRAM DATA 147

FIG. 1

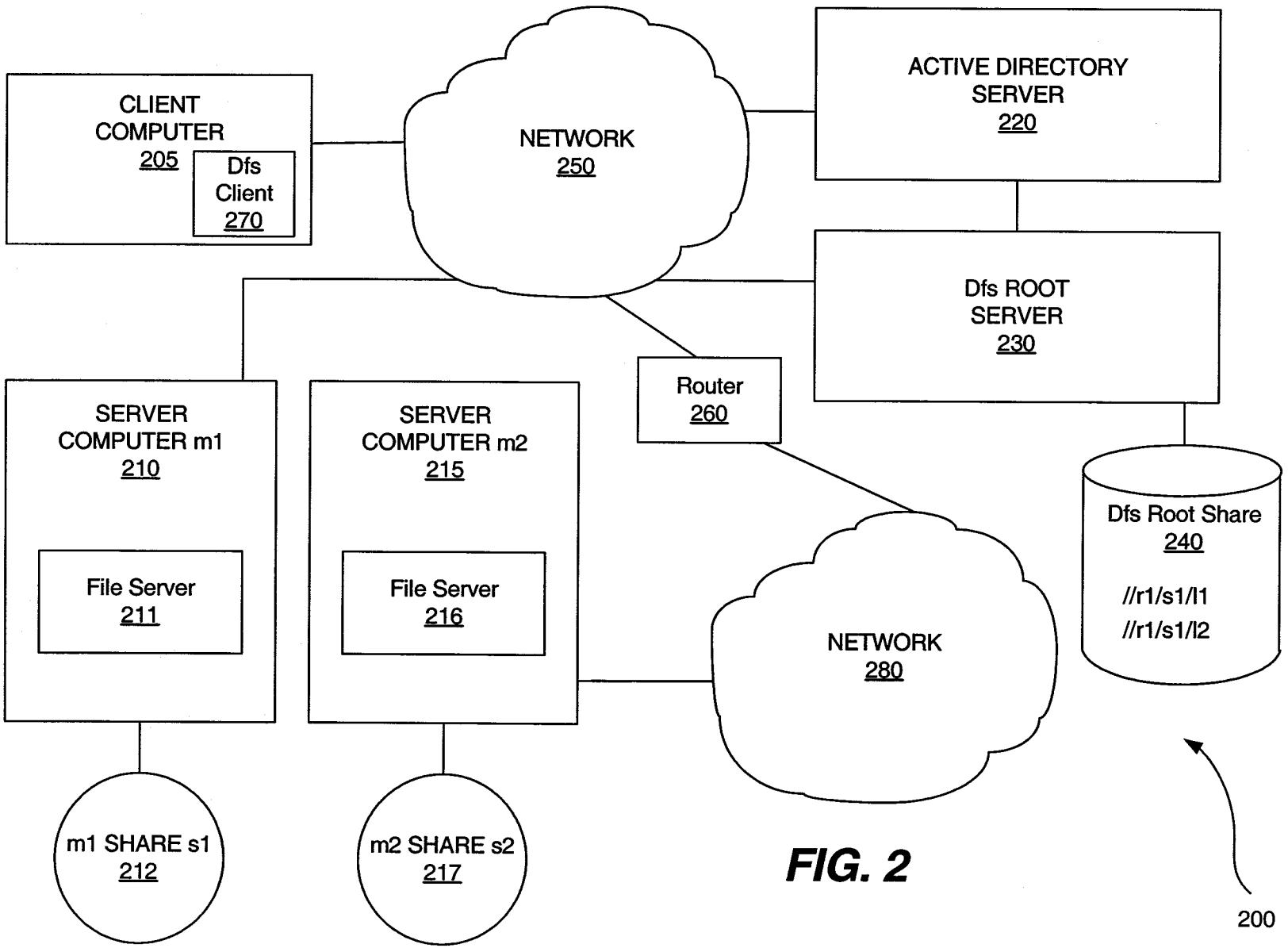

CLIENT COMPUTER 205
Dfs Client 270
NETWORK 250
ACTIVE DIRECTORY SERVER 220
Dfs ROOT SERVER 230
Router 260
SERVER COMPUTER m1 210
File Server 211
SERVER COMPUTER m2 215
File Server 216
NETWORK 280
Dfs Root Share 240
//r1/s1/l1
//r1/s1/l2
m1 SHARE s1 212
m2 SHARE s2 217
200

FIG. 2

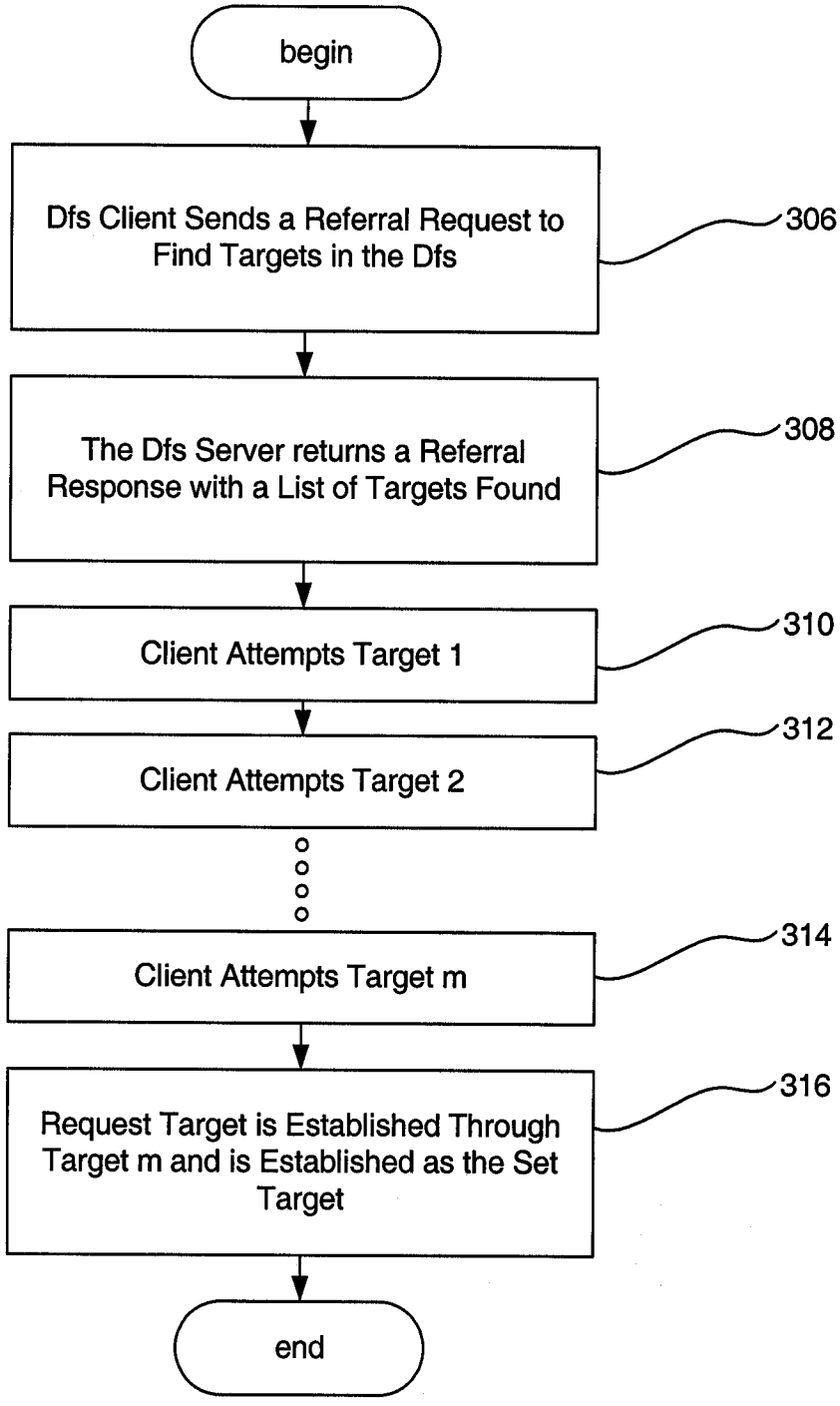

begin
Dfs Client Sends a Referral Request to Find Targets in the Dfs
306
The Dfs Server returns a Referral Response with a List of Targets Found
308
Client Attempts Target 1
310
Client Attempts Target 2
312
Client Attempts Target m
314
Request Target is Established Through Target m and is Established as the Set Target
316
end

FIG. 3

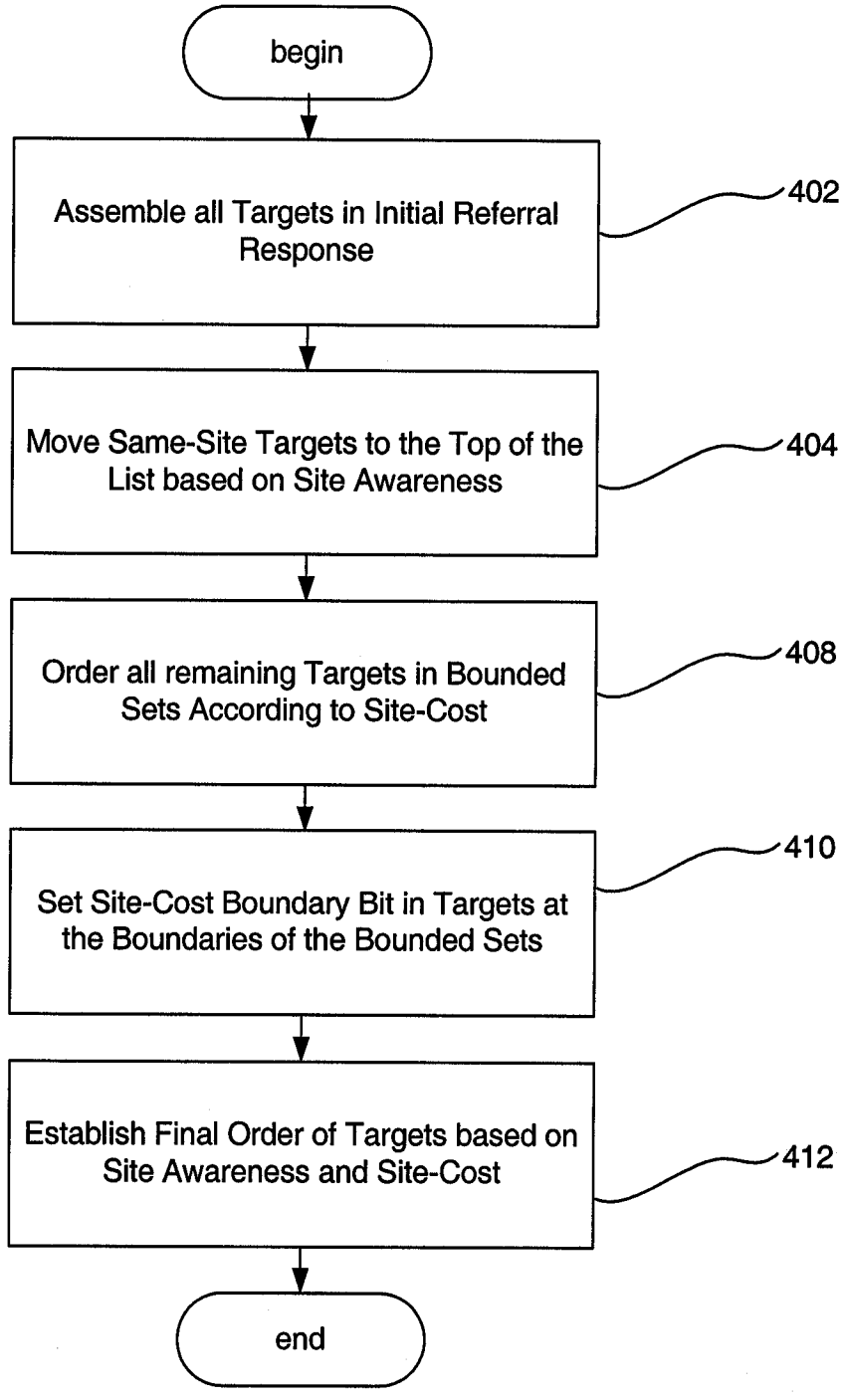

begin
Assemble all Targets in Initial Referral Response
402
Move Same-Site Targets to the Top of the List based on Site Awareness
404
Order all remaining Targets in Bounded Sets According to Site-Cost
408
Set Site-Cost Boundary Bit in Targets at the Boundaries of the Bounded Sets
410
Establish Final Order of Targets based on Site Awareness and Site-Cost
412
end

FIG. 4

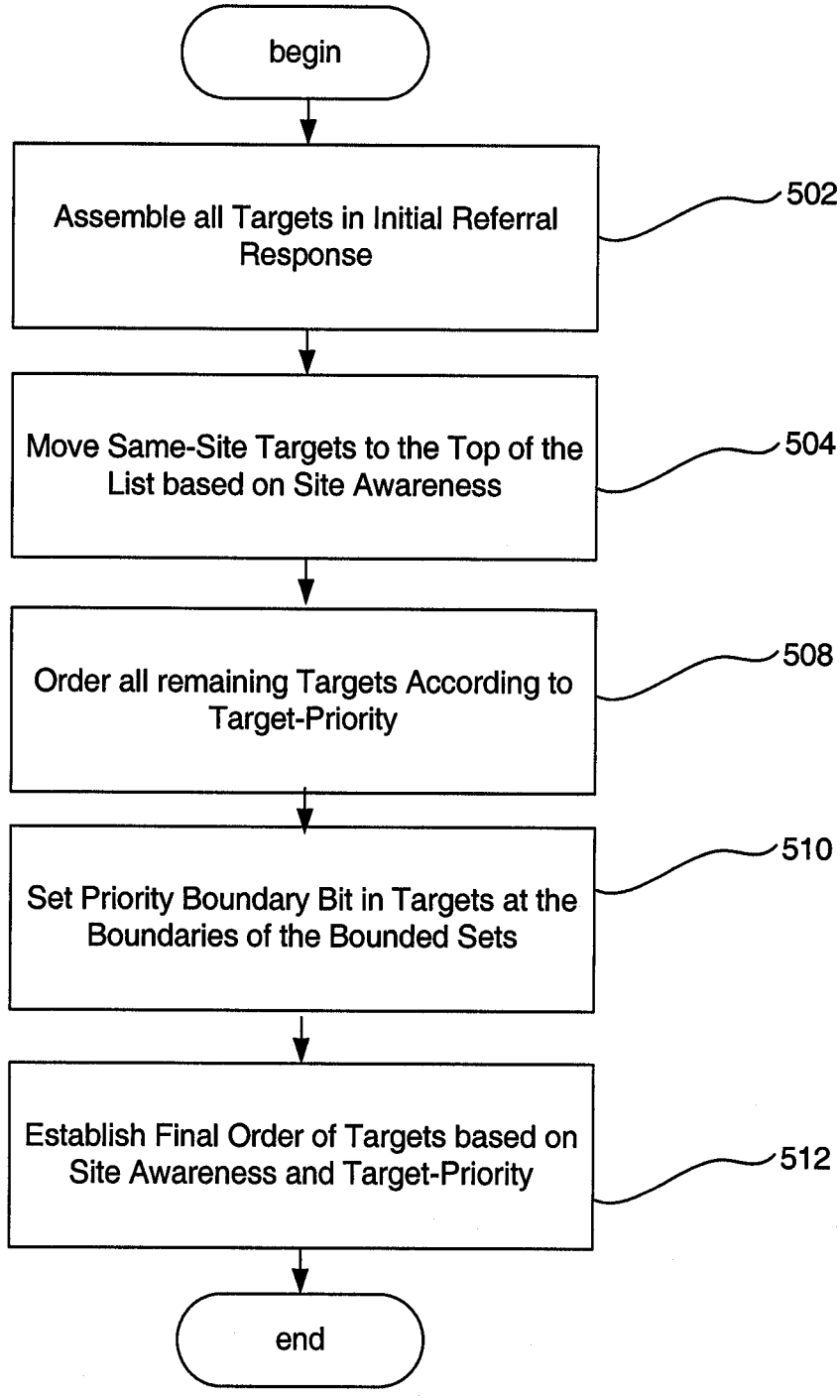

begin
Assemble all Targets in Initial Referral Response
502
Move Same-Site Targets to the Top of the List based on Site Awareness
504
Order all remaining Targets According to Target-Priority
508
Set Priority Boundary Bit in Targets at the Boundaries of the Bounded Sets
510
Establish Final Order of Targets based on Site Awareness and Target-Priority
512
end

FIG. 5

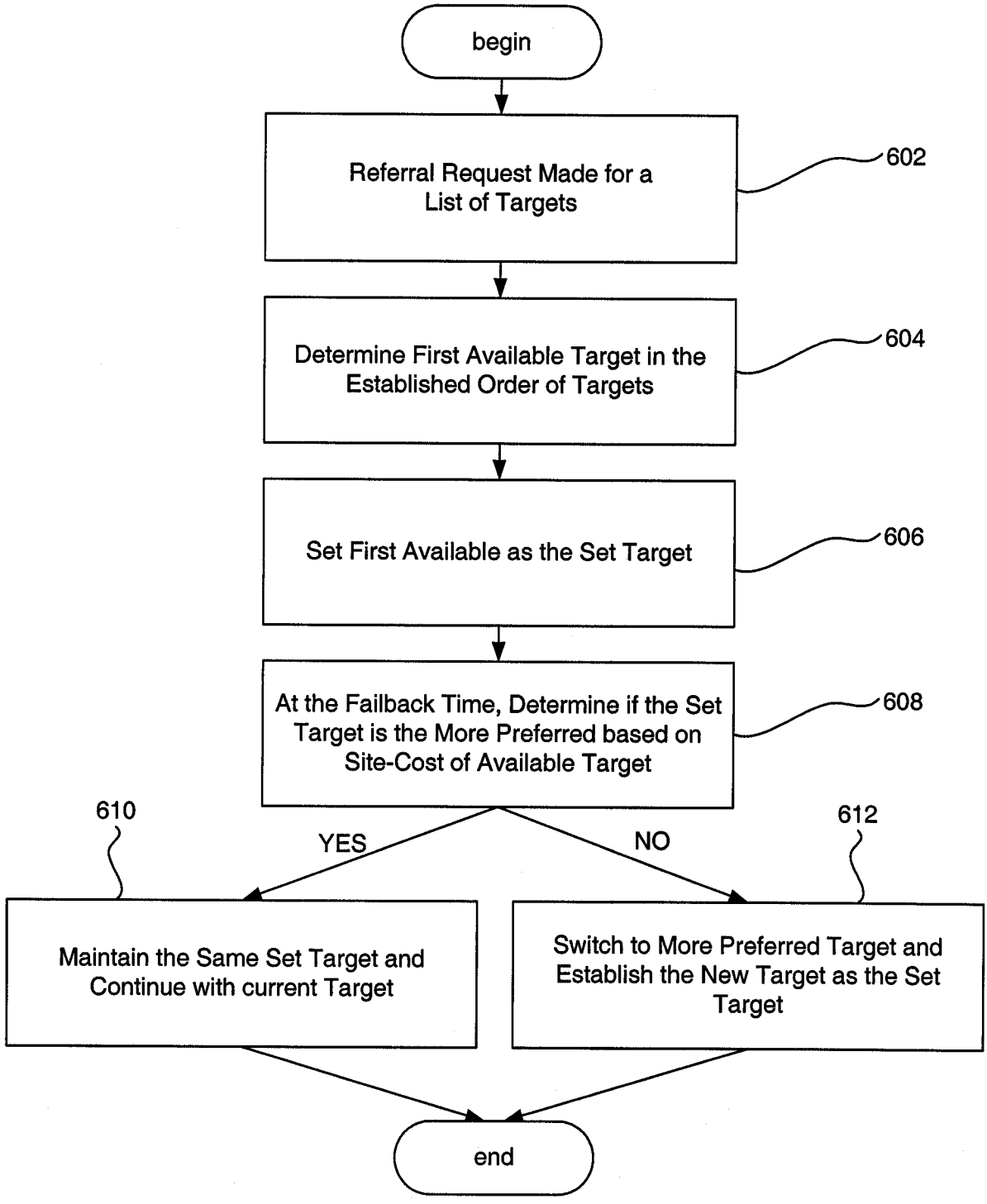

begin
Referral Request Made for a List of Targets
602
Determine First Available Target in the Established Order of Targets
604
Set First Available as the Set Target
606
At the Failback Time, Determine if the Set Target is the More Preferred based on Site-Cost of Available Target
608
610
YES
NO
612
Maintain the Same Set Target and Continue with current Target
Switch to More Preferred Target and Establish the New Target as the Set Target
end

FIG. 6

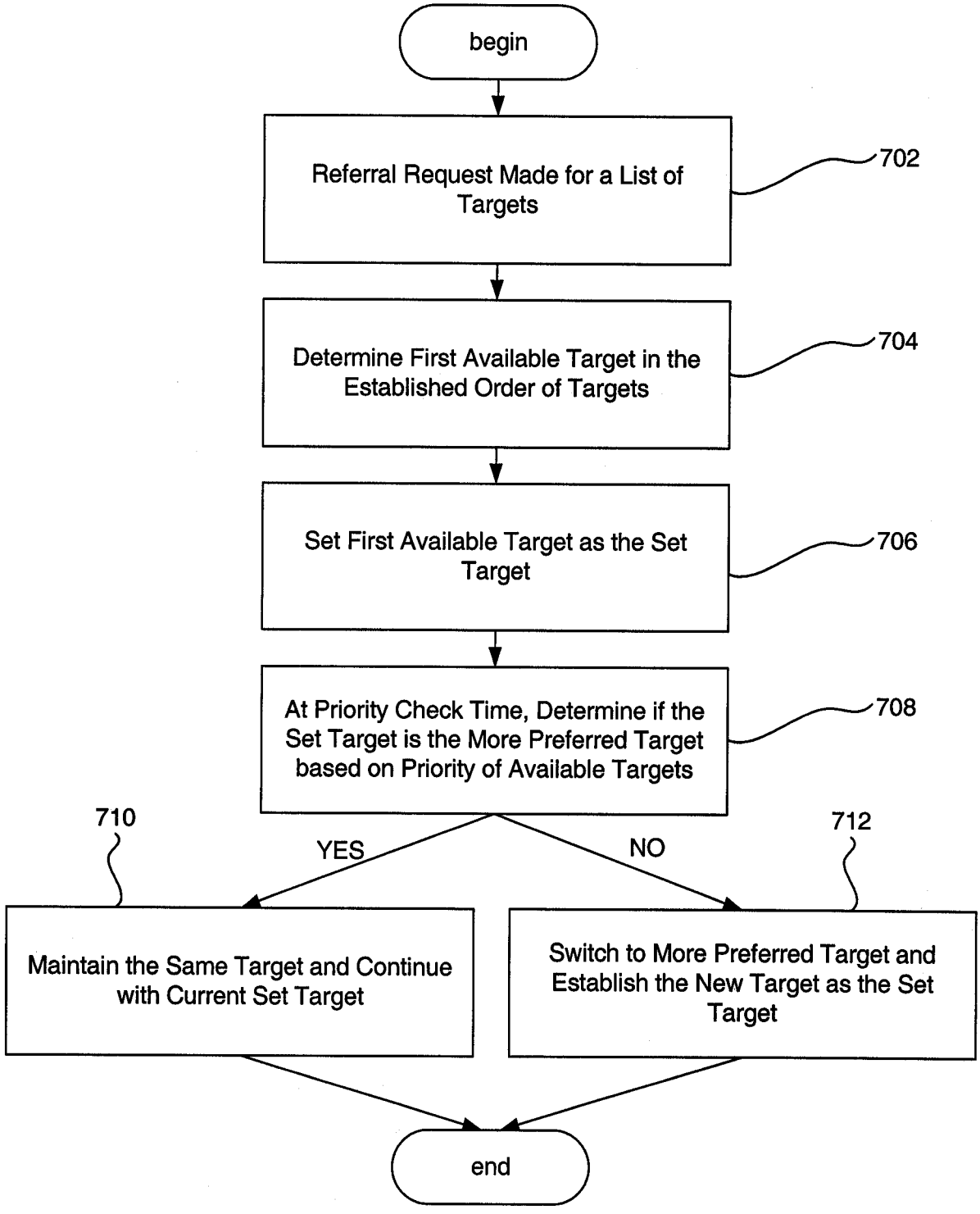

begin
Referral Request Made for a List of Targets
702
Determine First Available Target in the Established Order of Targets
704
Set First Available Target as the Set Target
706
At Priority Check Time, Determine if the Set Target is the More Preferred Target based on Priority of Available Targets
708
710
YES
NO
712
Maintain the Same Target and Continue with Current Set Target
Switch to More Preferred Target and Establish the New Target as the Set Target
end

FIG. 7

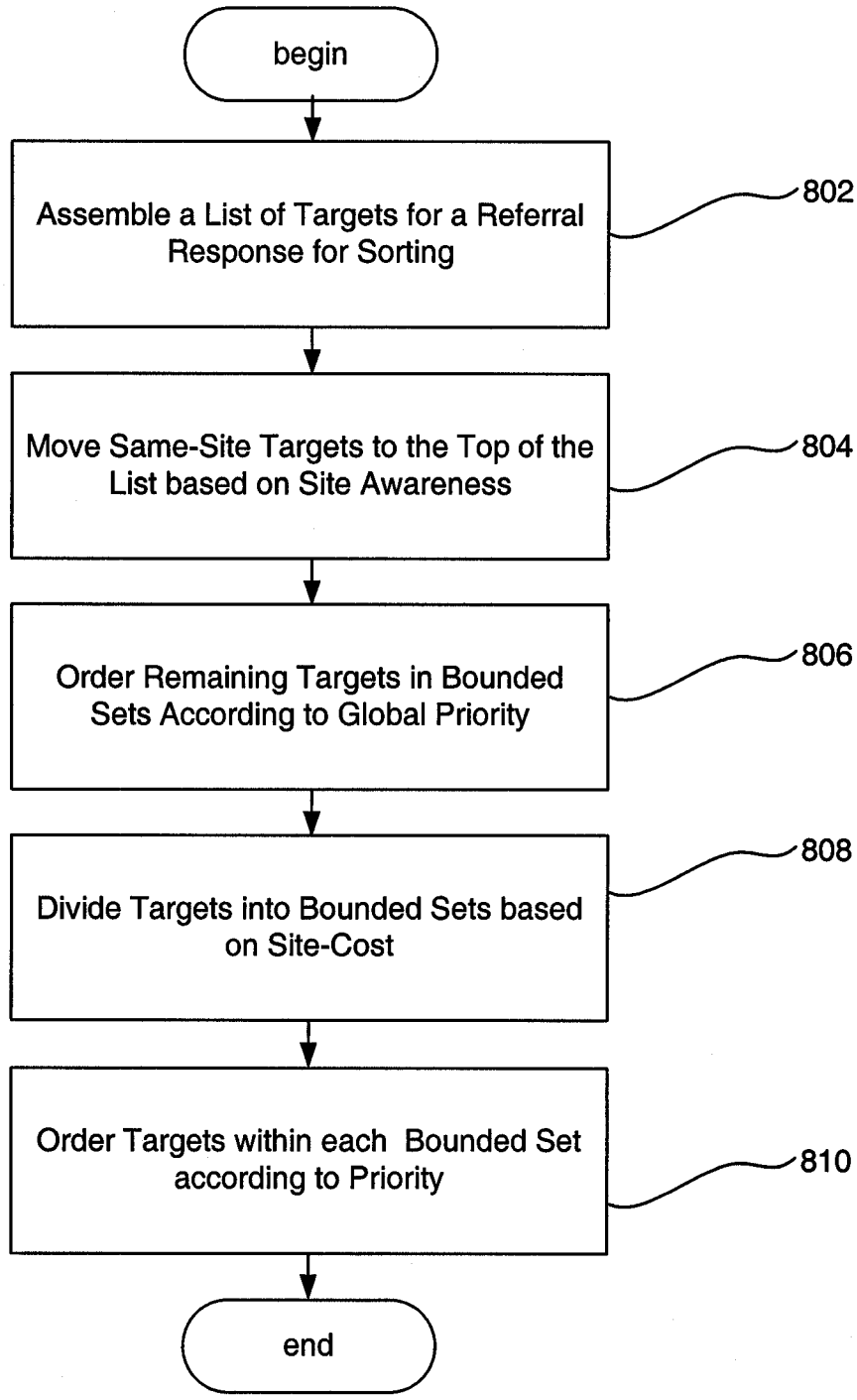

begin
Assemble a List of Targets for a Referral Response for Sorting
802
Move Same-Site Targets to the Top of the List based on Site Awareness
804
Order Remaining Targets in Bounded Sets According to Global Priority
806
Divide Targets into Bounded Sets based on Site-Cost
808
Order Targets within each Bounded Set according to Priority
810
end

FIG. 8