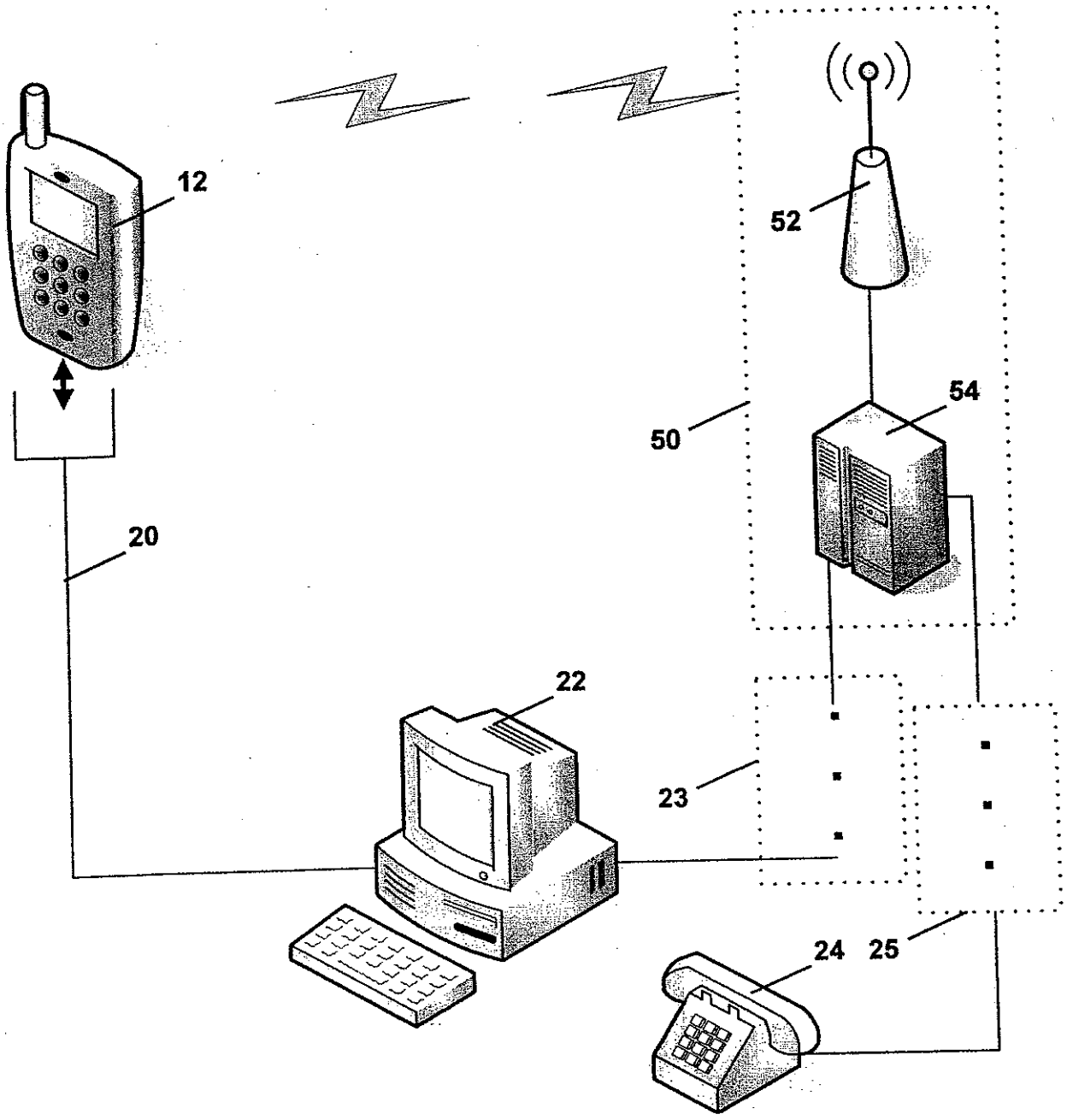


Fig. 1

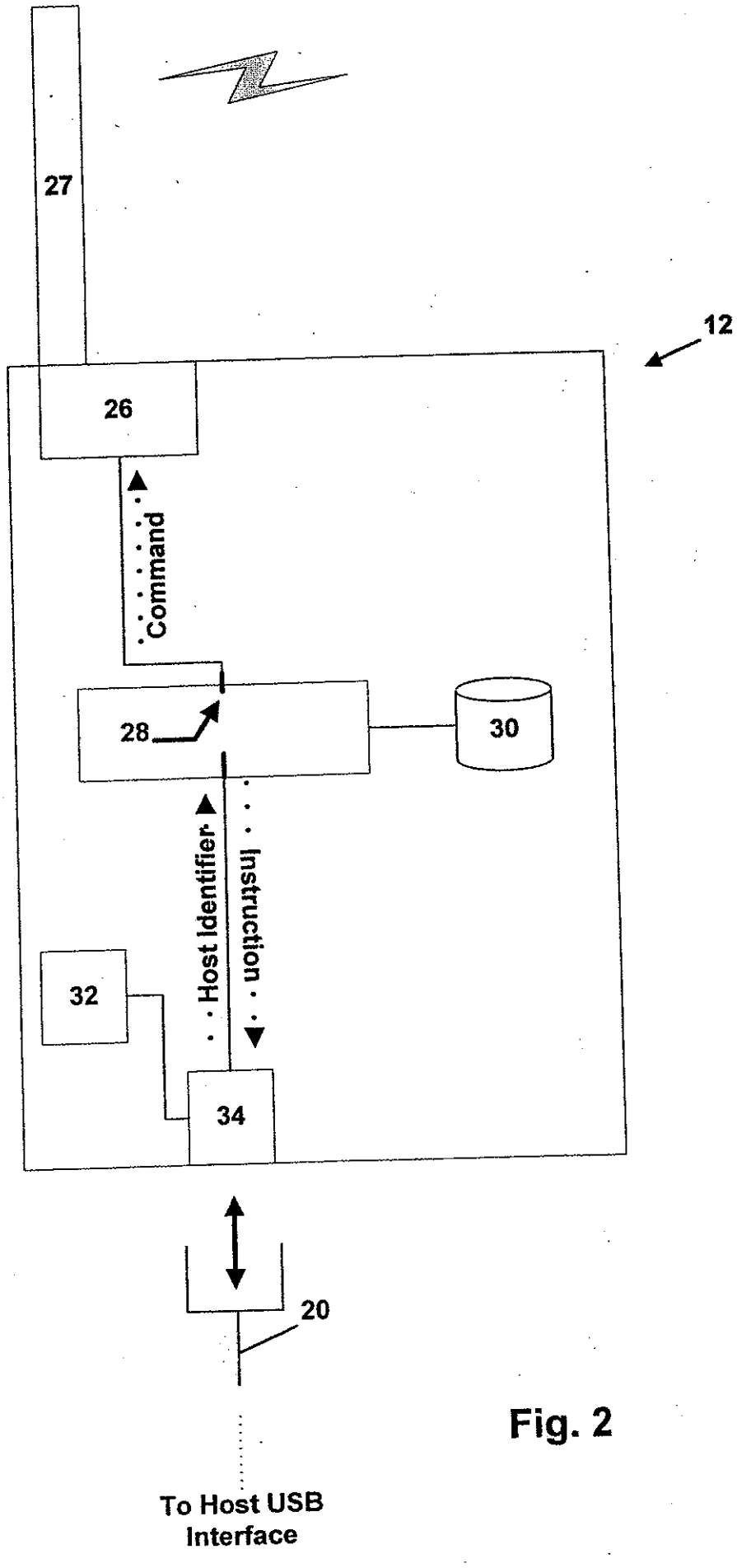

27
12
26
Command
28
30
Host Identifier
Instruction
32
34
20
To Host USB
Interface

Fig. 2

31

PREFERENCE	VALUE
AUTO REDIRECT	ON
MOBILE DEVICE REDIRECT	ON
ALT ADDRESS LOCAL	ON

HOST ID	ALT ADDRESS
HOST_HOME123	(416) 595-1663
HOST_WORK456	(905) 595-6223
HOST_SCHOOL789	(416) 595-9999
HOST_BATTCHARGER	(416) 595-1663

TIME OF DAY	ALT ADDRESS
6PM-8PM	(416) 595-1663
8PM-2AM	(416) 678-9123
2AM-8AM	(416) 595-1663
8AM-6PM	(905) 595-6223

Fig. 2A

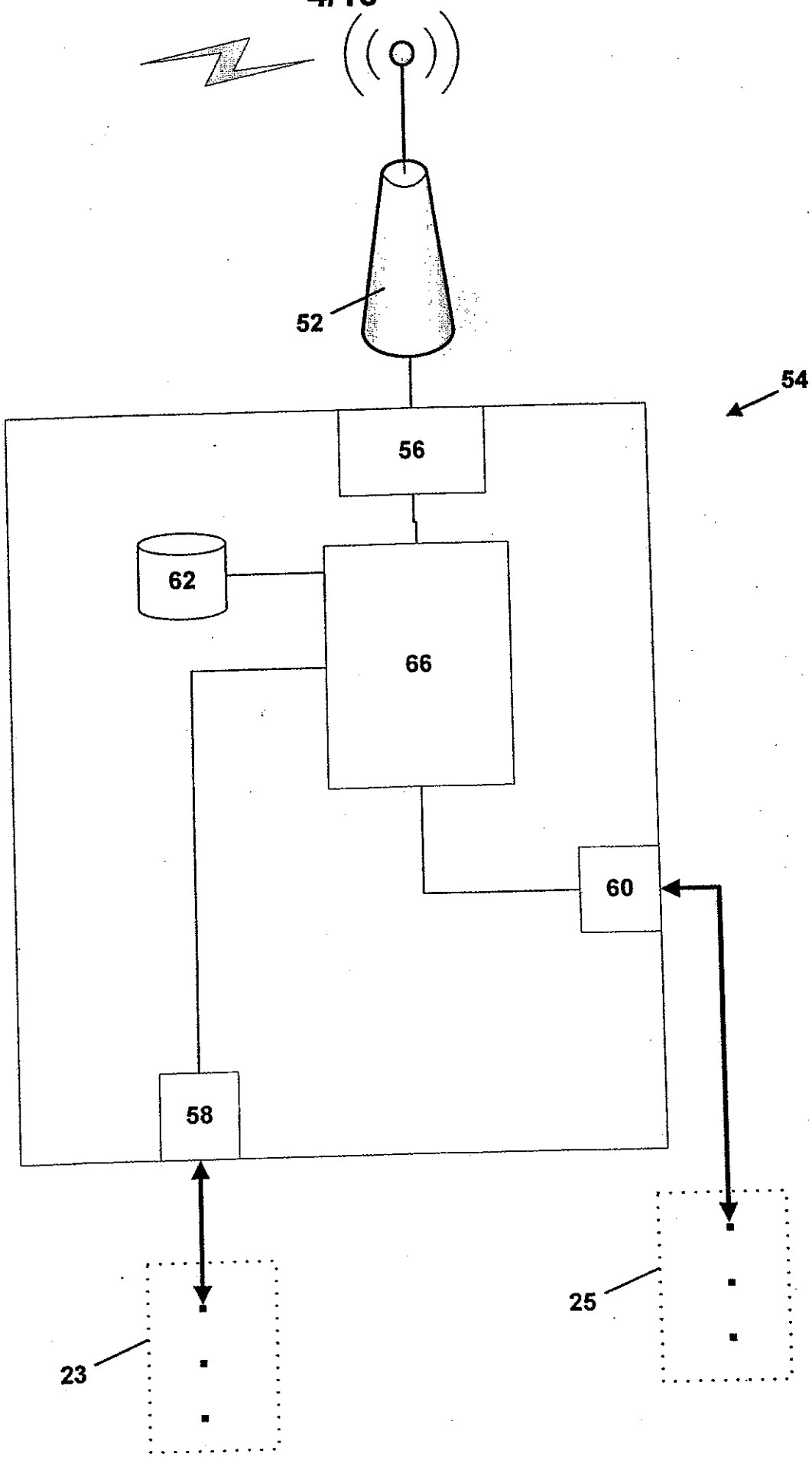


Fig. 3

63

TELEPHONE NUMBER	DEVICE ID	ALTERNATE ENDPOINT IDENTIFER	CALL REDIRECTING FLAG
(416) 595-1155	MDID7311975	(416) 595-1163	Y
(416) 123-1150	MDID0003971	-	N
(416) 685-1985	MDID0100011	(416) 595-7979	N
▪			
▪			
▪			
(416) 595-6223	MDID7312004	(416) 595-1220	Y

Fig. 3A

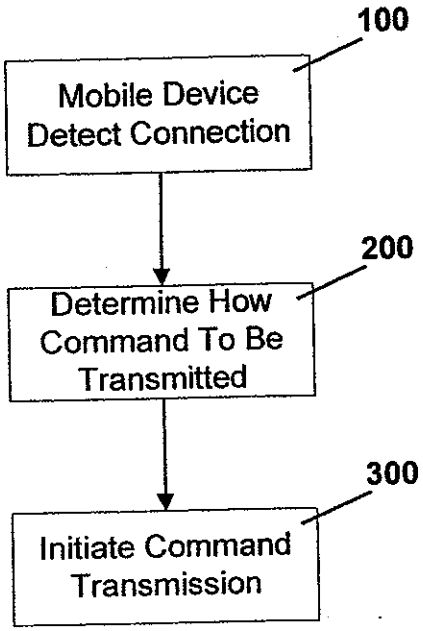

100
Mobile Device Detect Connection
200
Determine How Command To Be Transmitted
300
Initiate Command Transmission

Fig. 4

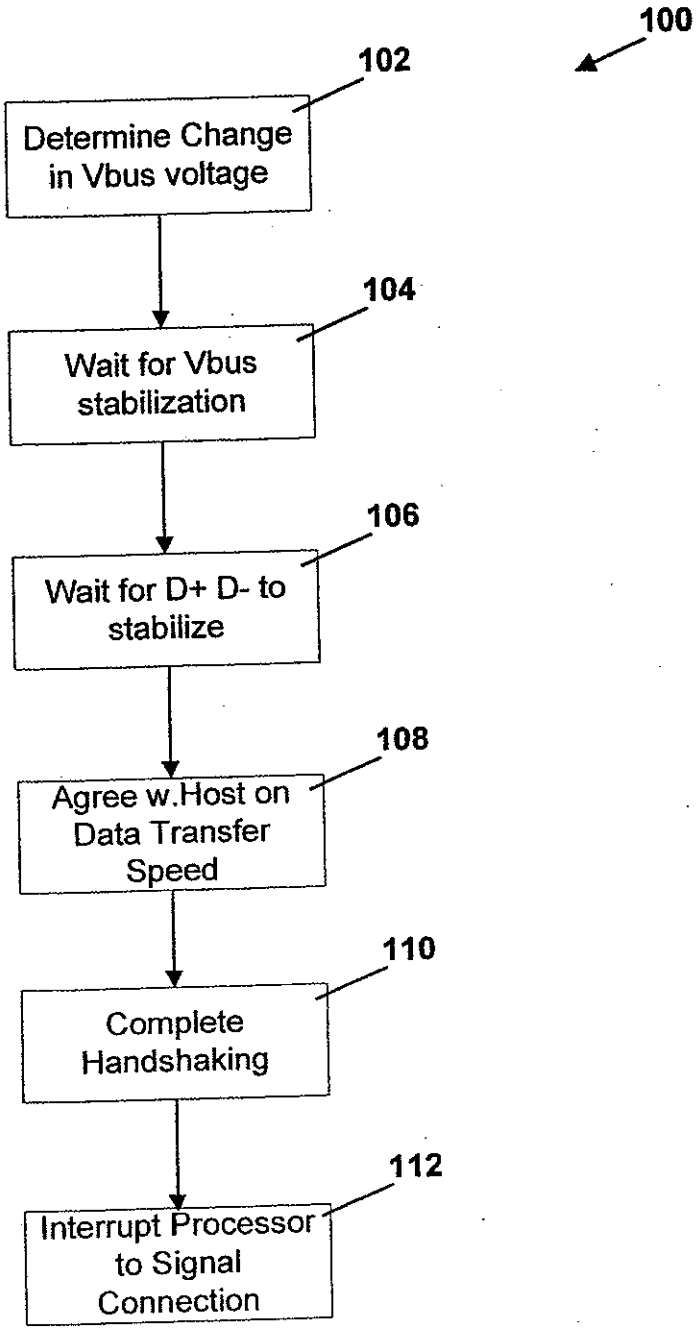

100
102
Determine Change in Vbus voltage
104
Wait for Vbus stabilization
106
Wait for D+ D- to stabilize
108
Agree w.Host on Data Transfer Speed
110
Complete Handshaking
112
Interrupt Processor to Signal Connection

Fig. 5

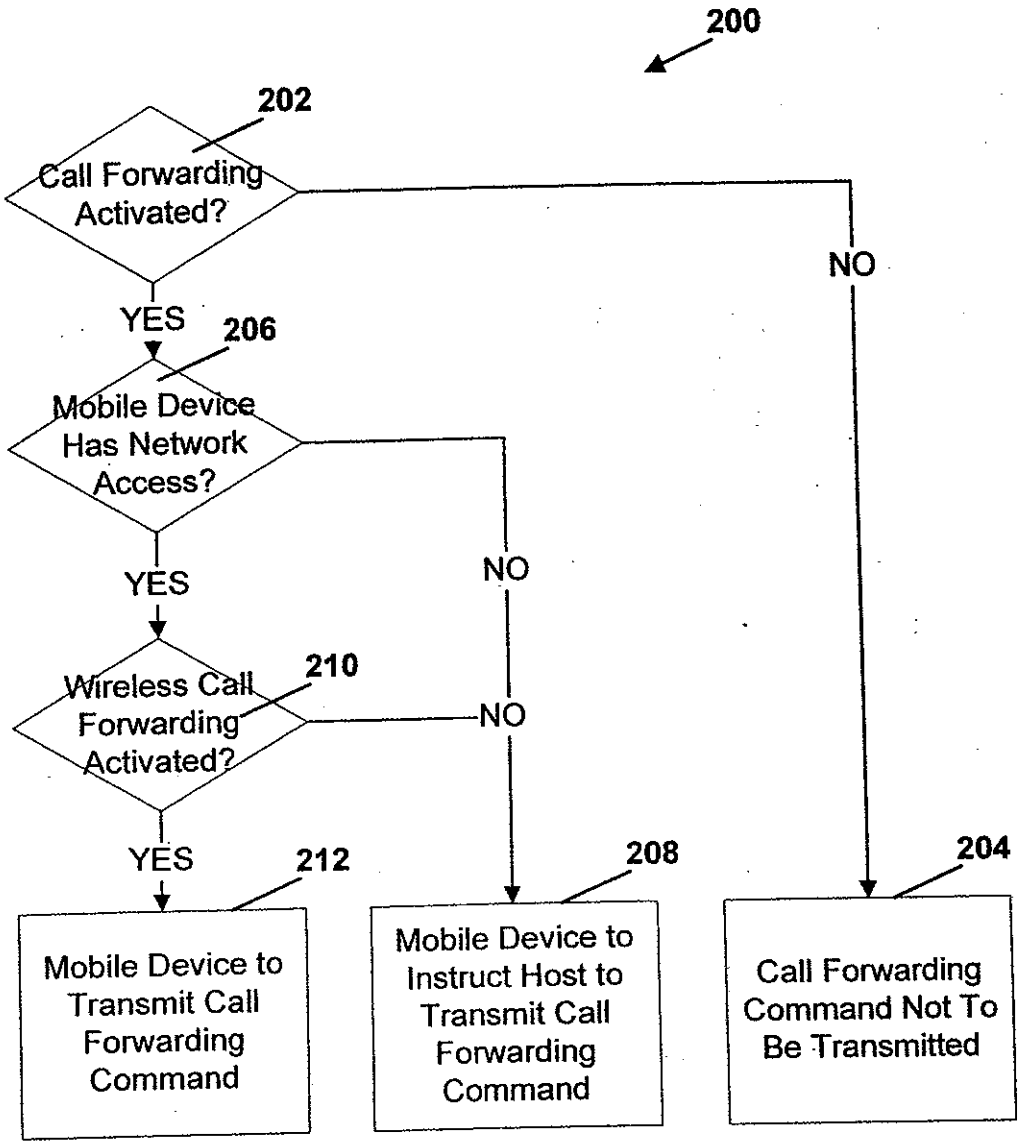

200
202
Call Forwarding Activated?
NO
YES
206
Mobile Device Has Network Access?
NO
YES
210
Wireless Call Forwarding Activated?
NO
YES
212
208
204
Mobile Device to Transmit Call Forwarding Command
Mobile Device to Instruct Host to Transmit Call Forwarding Command
Call Forwarding Command Not To Be Transmitted

Fig. 6

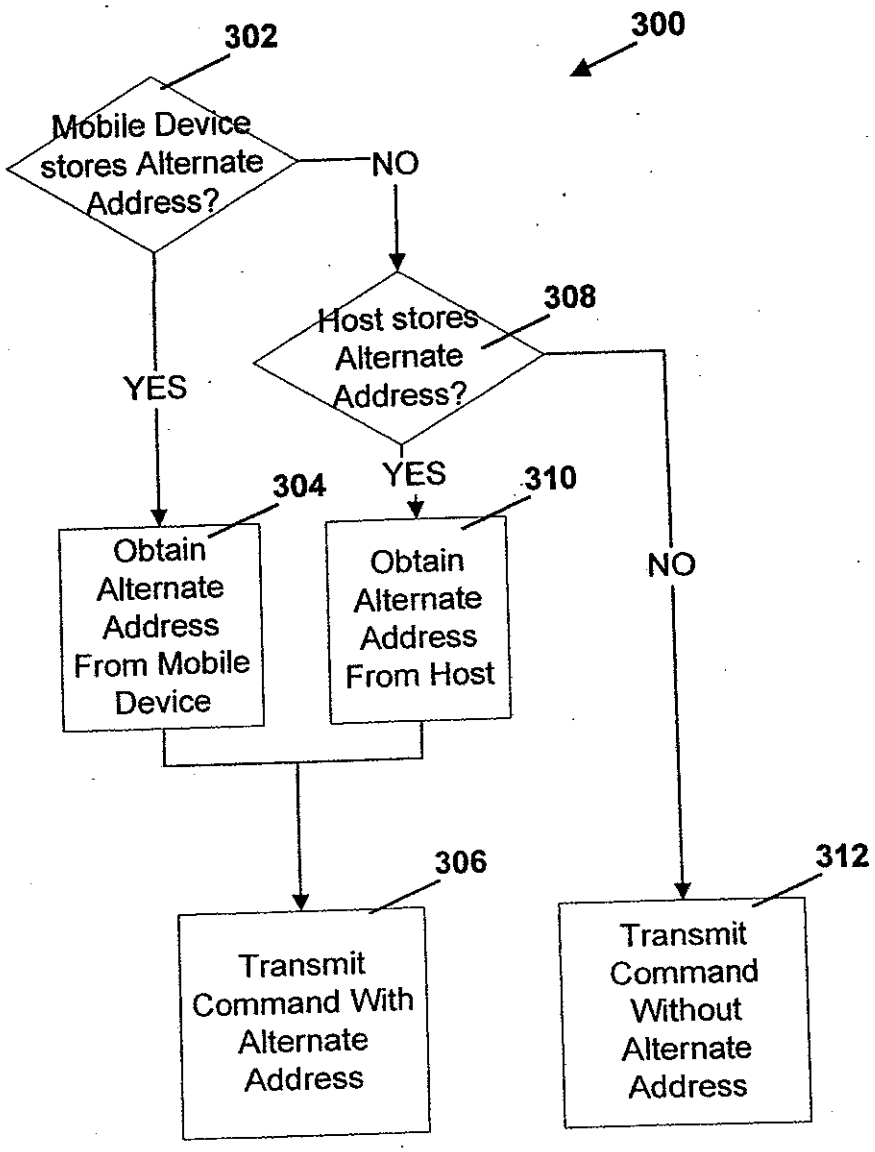

300
302
Mobile Device stores Alternate Address?
NO
YES
308
Host stores Alternate Address?
YES
NO
304
Obtain Alternate Address From Mobile Device
310
Obtain Alternate Address From Host
306
Transmit Command With Alternate Address
312
Transmit Command Without Alternate Address

Fig. 7

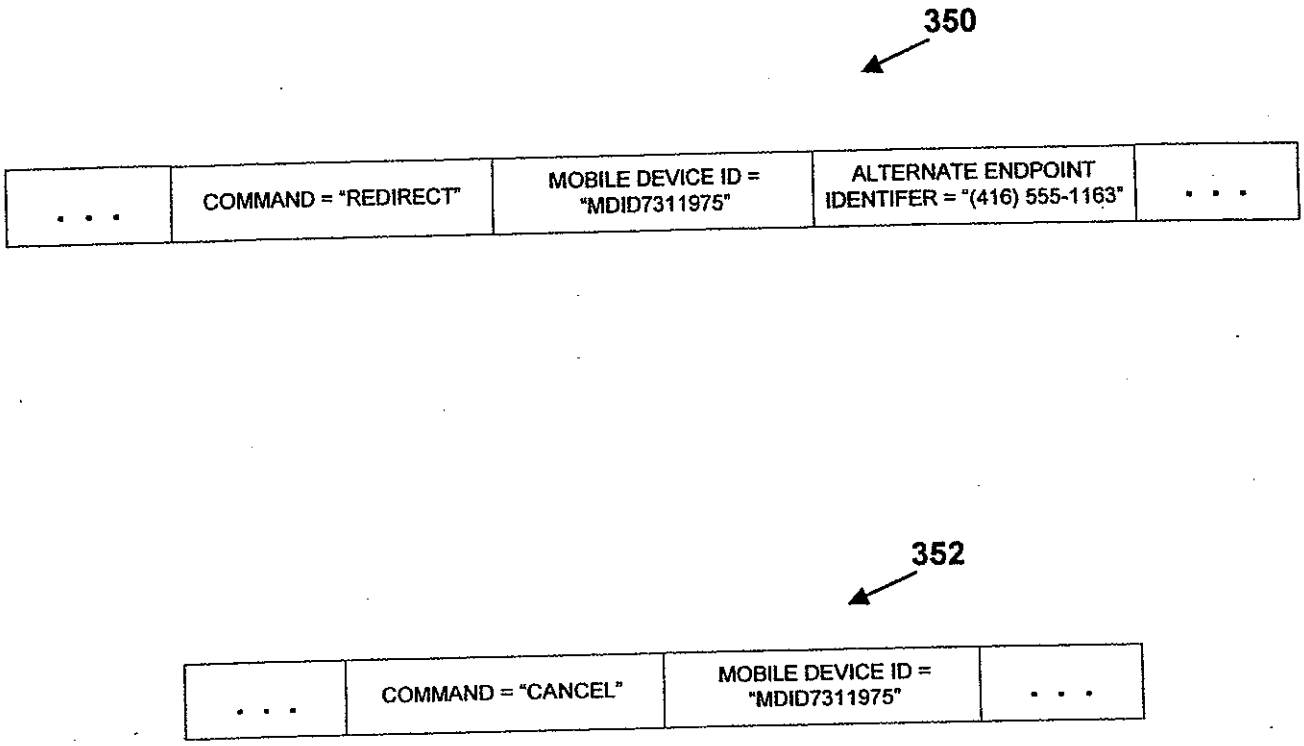

350
. . .
COMMAND = "REDIRECT"
MOBILE DEVICE ID = "MDID7311975"
ALTERNATE ENDPOINT IDENTIFER = "(416) 555-1163"
. . .
352
. . .
COMMAND = "CANCEL"
MOBILE DEVICE ID = "MDID7311975"
. . .

Fig. 7A

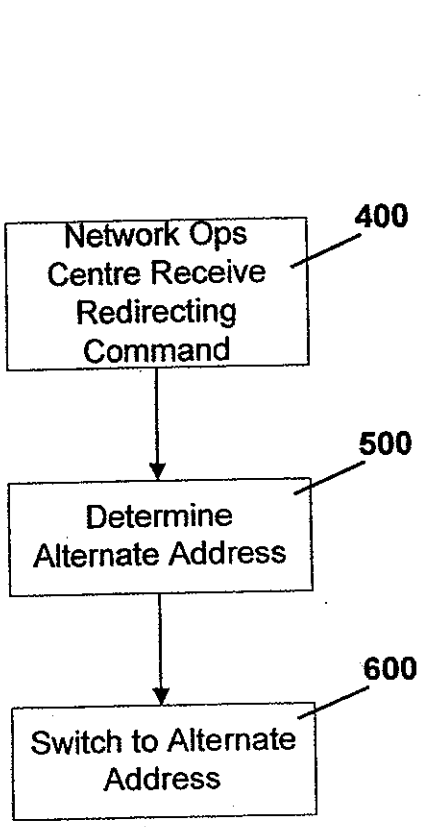

Network Ops Centre Receive Redirecting Command
400
Determine Alternate Address
500
Switch to Alternate Address
600

Fig. 8

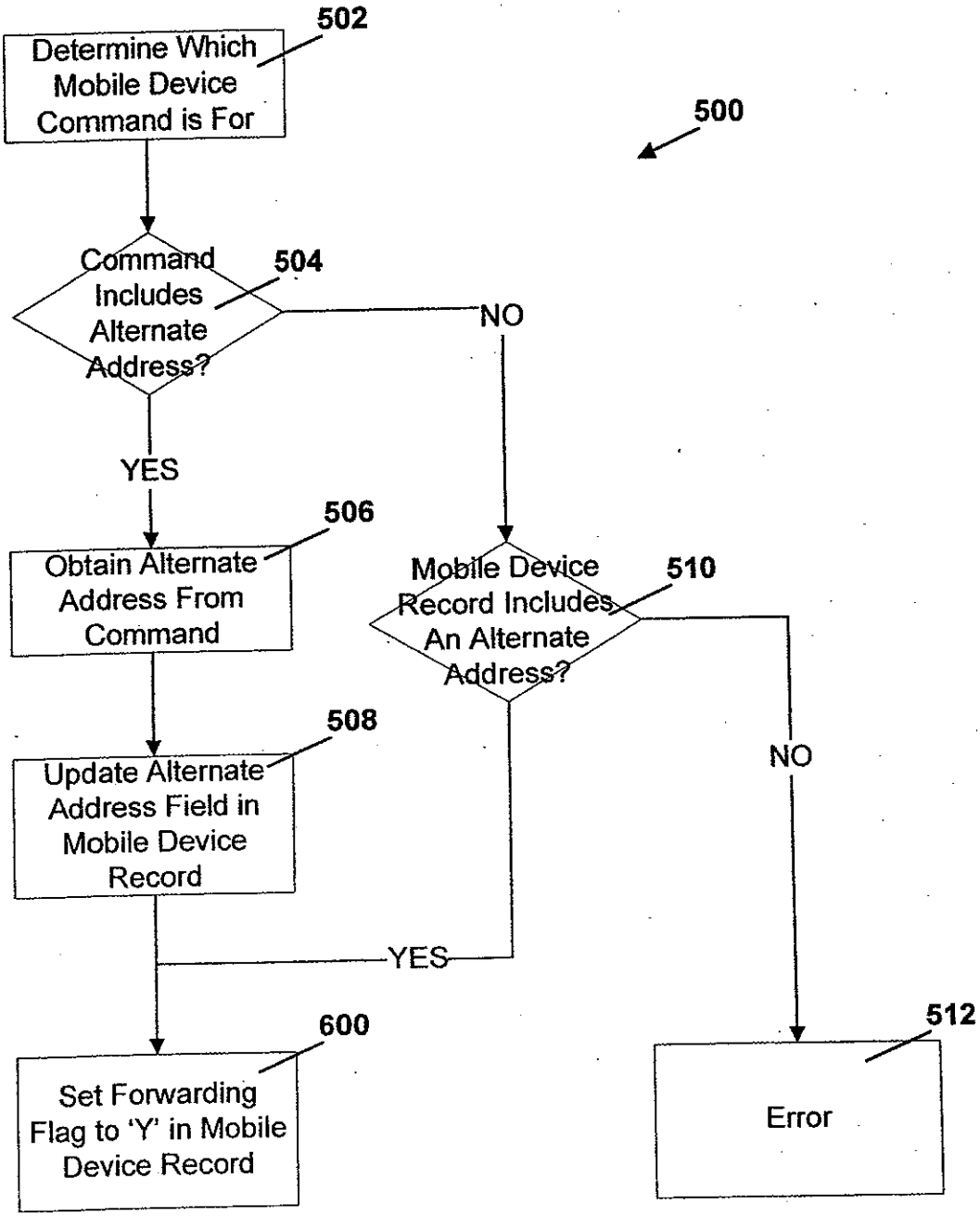

Determine Which Mobile Device Command is For
502
500
Command Includes Alternate Address?
504
NO
YES
Obtain Alternate Address From Command
506
Mobile Device Record Includes An Alternate Address?
510
Update Alternate Address Field in Mobile Device Record
508
NO
YES
Set Forwarding Flag to 'Y' in Mobile Device Record
600
Error
512

Fig. 9

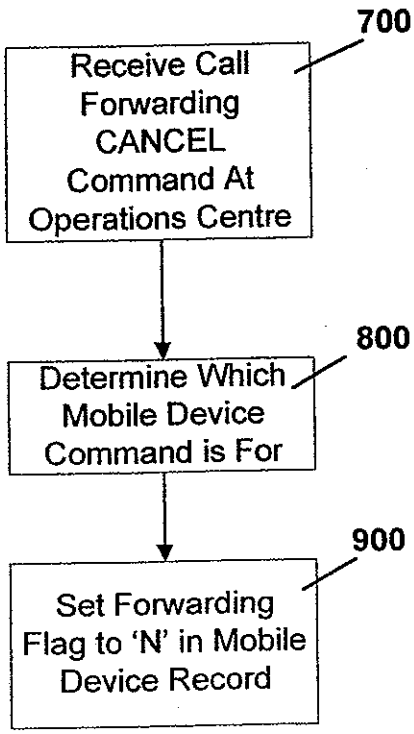

700
Receive Call Forwarding CANCEL Command At Operations Centre
800
Determine Which Mobile Device Command is For
900
Set Forwarding Flag to 'N' in Mobile Device Record

Fig. 10