

### (12) United States Patent Beghtol et al.

### (54) METHOD AND APPARATUS FOR **INCOMING CALL REJECTION**

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- (\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
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### **Related U.S. Application Data**

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- Int. Cl.<sup>7</sup> ..... H04M 3/42 (51)
- U.S. Cl. ...... 455/415; 455/412; 455/567; (52) 379/142
- (58)Field of Search ...... 455/404, 33.1, 455/54.1, 90, 525, 550, 422, 567, 455-458, 412-415, 565; 579/142, 127, 67-69, 201, 207, 211, 373, 372, 374, 376, 350, 140, 199-200

#### (56)**References Cited**

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### **U.S. PATENT DOCUMENTS**

5,329,578 *	7/1994	Brennan et al 379/67
5,553,125	9/1996	Martensson 379/140
5,559,860	9/1996	Mizikovsky 379/58
5,657,372	8/1997	Ahlberg et al 455/414
5,661,788	8/1997	Chin
5,748,709 *	5/1998	Sheerin

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### US 6,253,075 B1 (10) Patent No.: (45) Date of Patent: Jun. 26, 2001

5,758,280	*	5/1998	Kimura	455/412
5,835,582	*	11/1998	Matsuda et al	379/373
5,930,351	*	7/1999	Lappen et al	379/373
5,956,632	*	9/1999	Shon	455/404
6,044,148	*	3/2000	Bleile	379/375
6,108,630	*	8/2000	Kuechler et al	704/270
6,122,347	*	9/2000	Borland	. 379/70

### FOREIGN PATENT DOCUMENTS

4-258029 \* 9/1992 (JP) ..... H04B/7/26

\* cited by examiner

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#### (57)ABSTRACT

A method and apparatus for rejecting incoming calls for use in a mobile communications device. The method and apparatus permit a user of a mobile communications device to automatically reject calls intended to be received by the device. In an exemplary embodiment, a rejection memory within the mobile device is preprogrammed with identification information representative of transmitting stations to be rejected. When a call is incoming, identification information included with the incoming call is compared with identification information contained in the rejection memory. When a match is detected, a rejection message is automatically sent by the mobile communications device to the transmitting station. Upon receipt of the rejection message, the transmitting station terminates the call and may reroute the call to a voice messaging system. Additionally, upon display of the identification information of an incoming call, the user may manually trigger the transmission of the rejection message from the mobile communications device.

### 15 Claims, 4 Drawing Sheets



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MESSAGE TYPE	FEATURE DESCRIPTION	RECORD TYPE (BINARY)
FLASH WITH INFORMATION MESSAGE	FEATURE INDICATOR	0000010

FIG. 3a



FIG. 3b

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FIG. 5	503		500
MOBILE STATION	COMMUNICATION CHANNEL	502 BASE STATION	000
506	< PAGING CHANNEL < 505	SENDS PAGE, MESSAGE 504 508	
SENDS <sup>®</sup> PAGE RESPONSE MESSAGE	> ACCESS, CHANNEL >	SETS UP TRAFFIC CHANNEL	
512	507 511	BEGINS SENDING NULLS <sup>509</sup> TRAFFIC CHANNEL DATA	
SETS UP TRAFFIC CHANNEL	< PAGING CHANNEL <	SENDS CHANNEL ASSIGNMENT, MESSAGE	
RECEIVES N CONSECUTIVE VALID FRAMES \ 513	515	510 516	
BEGIN SENDING TRAFFIC CHANNEL PREAMBLE	> REVERSE TRAFFIC > CHANNEL	ACQUIRES THE REVERSE TRAFFIC CHANNEL	\$537
514 519	< FORWARD TRAFFIC < 518 CHANNEL	501 SENDS BASE STATION / ACKNOWLEDGEMENT ORDER	
BEGIN TRANSMITTING NULL TRAFFIC DATA 523	> REVERSE TRAFFIC > 520 CHANNEL	521	
BEGIN PROCESSING PRIMARY TRAFFIC IN ACCORDANCE WITH SERVICE OPTION 1	< FORWARD TRAFFIC < CHANNEL \ 522	SENDS SERVICE OPTION RESPONSE ORDER	
COMPARE ID TO-526 REJECTION MEMORY; 527	< FORWARD TRAFFIC < CHANNEL \ 525	524 SENDS ALERT WITH INFORMATION MESSAGE (CALLER ID AND RING)	
IF MATCH, THEN TRANSMIT REJECTION MESSAGE;	> REVERSE TRAFFIC > / CHANNEL 528	RELEASE CALL~529	
IF NO MATCH, RING ZOU AND DISPLAY CALLER ID.	532		
IF USER "REJECT" INPUT DETECTED TRANSMIT REJECTION MESSAGE 531	> REVERSE TRAFFIC > CHANNEL	RELEASE CALL $\sim$ 533	
IF USER "ANSWER" INPUT DETECTED TRANSMIT CONNECT ORDER 5.34	> REVERSE TRAFFIC > CHANNEL \ 535	CONNECT CALL~536	

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