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# (12) United States Patent

### Wesby-van Swaay

#### (54) PROGRAMMABLE COMMUNICATOR

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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 126 days. This patent is subject to a terminal disclaimer.
- (21) Appl. No.: 12/538,603
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#### **Related U.S. Application Data**

(63) Continuation of application No. 11/329,212, filed on Jan. 10, 2006, now Pat. No. 7,583,197, which is a continuation of application No. 10/296,571, filed as application No. PCT/EP01/05738 on May 18, 2001, now abandoned.

#### (30)**Foreign Application Priority Data**

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(51) Int. Cl.

(2006.01)
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- (52) U.S. Cl. ...... 340/539.12; 340/573.4; 340/693.5; 340/7.29; 340/7.33; 340/7.52
- Field of Classification Search ...... 340/539.12, (58)340/573.4, 693.5, 7.29, 7.33, 7.52; 455/456, 455/456.2, 418-419, 425; 379/142, 373, 379/375

See application file for complete search history.

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#### ABSTRACT (57)

A programmable communicator device is disclosed having a wireless communications circuit, including an antenna, configured to receive a transmission, and an identity module having a unique identifier. The programmable communicator further includes a processing module including program code configured to determine if the transmission is from an authenticated caller by determining whether a received transmission contains the unique identifier, and memory configured to store telephone numbers or IP addresses received in transmissions from an authenticated caller.

#### 197 Claims, 3 Drawing Sheets

ou	TGOING MESSAGE OR CALL	ACTION PERFORMED BY PROGRAMMABLE COMMUNICATOR	REMOTE
6.	AUTHENTICATED MESSAGE COMPRISING UNIQUE IDENTIFIER RECEIVES REQUESTED DATA FROM DEVICE ASSOCIATED WITH PROGRAMMABLE COMMUNICATOR	PROGRAMMABLE COMMUNICATOR COLLECTS DATA FROM AN ASSOCIATED DEVICE AND TRANSMITS IT TO LINKED TELEPHONE OR IP ADDRESS	
7.	LINKED TELEPHONE OR IP ADDRESS OF IP DEVICE OR INTERNET WEB PAGE RECEIVES INFORMATION ABOUT THE CHANGE IN STATUS.	CHANGE IN STATUS OF THE PROGRAMMABLE COMMUNICATOR CAUSES MESSAGE TO BE SENT TO LINKED TELEPHONE OR IP ADDRESS.	
8.	LINKED TELEPHONE OR IP ADDRESS OF IP DEVICE OR INTERNET WEB PAGE RECEIVES INFORMATION ABOUT THE CURRENT STATUS.	PROGRAMMABLE COMMUNICATOR COLLECTS INFORMATION ON CURRENT STATUS CONDITION AND SENDS IT PERIODICALLY TO LINKED TELEPHONE OR IP ADDRESS	

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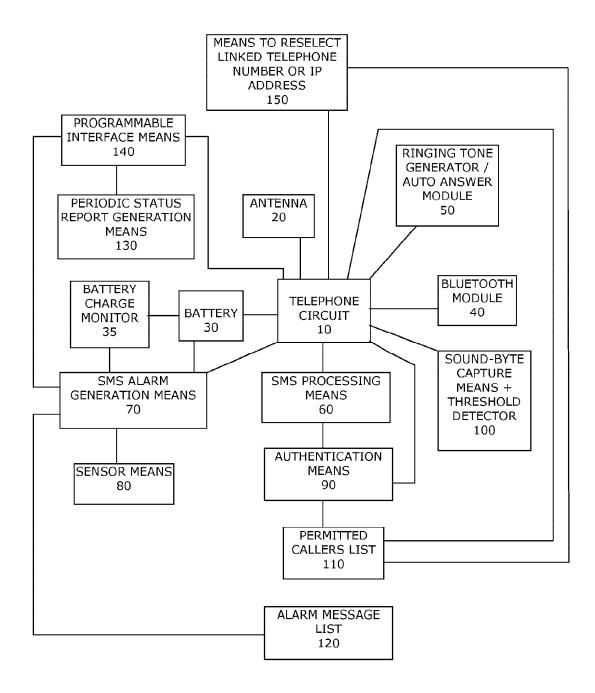
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# Fig. 1

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#### **INCOMING MESSAGE OR CALL**

#### ACTION PERFORMED BY **PROGRAMMABLE COMMUNICATOR**

1.	AUTHENTIC MESSAGE COMPRISING UNIQUE IDENTIFIER AND LINKING TELEPHONE NUMBER OR IP ADDRESS	PROGRAMMABLE COMMUNICATOR PROCESSES MESSAGE AND STORES NEW LINKING TELEPHONE NUMBER OR IP ADDRESS
2.	AUTHENTIC MESSAGE COMPRISING UNIQUE IDENTIFIER AND ONE OR MORE TELEPHONE NUMBERS OR IP ADDRESSES	PROGRAMMABLE COMMUNICATOR PROCESSES MESSAGE AND STORES NUMBERS IN THE PERMITTED CALLERS LIST
3.	INCOMING CALL	PROGRAMMABLE COMMUNICATOR VERIFIES THAT CALLER IS ON PERMITTED CALLERS LIST AND CAUSES THE RINGING TONE TO BE GENERATED.
4.	INCOMING CALL	PROGRAMMABLE COMMUNICATOR IS UNABLE TO VERIFY THAT THE CALLER IS ON THE PERMITTED CALLERS LIST AND THE CALL IS TERMINATED
5a.	INCOMING CALL	THE PROGRAMMABLE COMMUNICATOR VERIFIES THAT THE CALLER IS ON THE PERMITTED CALLERS LIST AND AUTO ANSWERS
5b.	INCOMING CALL IS TERMINATED	AUTO-ANSWERED CALL IS TERMINATED BY THE TERMINATION OF THE INCOMING CALL AND THE PROGRAMMABLE COMMUNICATOR REVERTS TO IDLE STATE.



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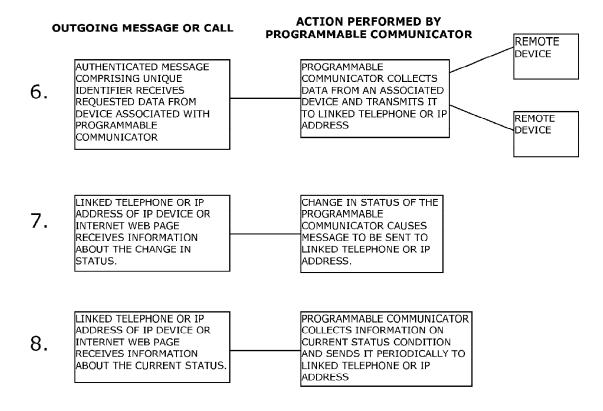


Fig. 3

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