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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
14/159,849 01/21/2014 Eveline Wesby-van Swaay 3781/1015 4281

2101 7590 05/07/2015
Sunstein Kann Murphy & Timbers LLP
125 SUMMER STREET
BOSTON, MA 02110-1618

EXAMINER

NGUYEN, NAM V

ART UNIT PAPER NUMBER

2682

NOTIFICATION DATE DELIVERY MODE

05/07/2015

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

usptomail@sunsteinlaw.com

<b>Notice of Abandonment</b>	<b>Application No.</b> 14/159,849	<b>Applicant(s)</b> WESBY-VAN SWAAY, EVELINE
	<b>Examiner</b> NAM V. NGUYEN	<b>Art Unit</b> 2682

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

This application is abandoned in view of:

1.  Applicant's failure to timely file a proper reply to the Office letter mailed on 08 October 2014.
  - (a)  A reply was received on \_\_\_\_\_ (with a Certificate of Mailing or Transmission dated \_\_\_\_\_), which is after the expiration of the period for reply (including a total extension of time of \_\_\_\_\_ month(s)) which expired on \_\_\_\_\_.
  - (b)  A proposed reply was received on \_\_\_\_\_, but it does not constitute a proper reply under 37 CFR 1.113 to the final rejection. (A proper reply under 37 CFR 1.113 to a final rejection consists only of: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) if this is utility or plant application, a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. Note that RCEs are not permitted in design applications.)
  - (c)  A reply was received on \_\_\_\_\_ but it does not constitute a proper reply, or a bona fide attempt at a proper reply, to the non-final rejection. See 37 CFR 1.85(a) and 1.111. (See explanation in box 7 below).
  - (d)  No reply has been received.
  
2.  Applicant's failure to timely pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance (PTOL-85).
  - (a)  The issue fee and publication fee, if applicable, was received on \_\_\_\_\_ (with a Certificate of Mailing or Transmission dated \_\_\_\_\_), which is after the expiration of the statutory period for payment of the issue fee (and publication fee) set in the Notice of Allowance (PTOL-85).
  - (b)  The submitted fee of \$\_\_\_\_\_ is insufficient. A balance of \$\_\_\_\_\_ is due.  
The issue fee required by 37 CFR 1.18 is \$\_\_\_\_\_. The publication fee, if required by 37 CFR 1.18(d), is \$\_\_\_\_\_.
  - (c)  The issue fee and publication fee, if applicable, has not been received.
  
3.  Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTO-37).
  - (a)  Proposed corrected drawings were received on \_\_\_\_\_ (with a Certificate of Mailing or Transmission dated \_\_\_\_\_), which is after the expiration of the period for reply.
  - (b)  No corrected drawings have been received.
  
4.  The letter of express abandonment which is signed by the attorney or agent of record or other party authorized under 37 CFR 1.33(b). See 37 CFR 1.138(b).
  
5.  The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34) upon the filing of a continuing application.
  
6.  The decision by the Board of Patent Appeals and Interference rendered on \_\_\_\_\_ and because the period for seeking court review of the decision has expired and there are no allowed claims.
  
7.  The reason(s) below:

/NAM V NGUYEN/  
Primary Examiner, Art Unit 2682

Petitions to revive under 37 CFR 1.137, or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term.





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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
Row 1: 14/159,849, 01/21/2014, Eveline Wesby-van Swaay, 3781/1015, 4281
Row 2: 2101, 7590, 10/08/2014, Sunstein Kann Murphy & Timbers LLP, 125 SUMMER STREET, BOSTON, MA 02110-1618
Row 3: EXAMINER, NGUYEN, NAM V
Row 4: ART UNIT, PAPER NUMBER, 2682
Row 5: NOTIFICATION DATE, DELIVERY MODE, 10/08/2014, ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

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Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

usptomail@sunsteinlaw.com

<b>Office Action Summary</b>	<b>Application No.</b> 14/159,849	<b>Applicant(s)</b> WESBY-VAN SWAAY, EVELINE	
	<b>Examiner</b> NAM V. NGUYEN	<b>Art Unit</b> 2682	<b>AIA (First Inventor to File) Status</b> No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1)  Responsive to communication(s) filed on 1/21/14.  
 A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on \_\_\_\_\_.
- 2a)  This action is **FINAL**.                      2b)  This action is non-final.
- 3)  An election was made by the applicant in response to a restriction requirement set forth during the interview on \_\_\_\_\_; the restriction requirement and election have been incorporated into this action.
- 4)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims\*

- 5)  Claim(s) 1-20 is/are pending in the application.  
5a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 6)  Claim(s) \_\_\_\_\_ is/are allowed.
- 7)  Claim(s) 1-20 is/are rejected.
- 8)  Claim(s) \_\_\_\_\_ is/are objected to.
- 9)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

\* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see [http://www.uspto.gov/patents/init\\_events/pph/index.jsp](http://www.uspto.gov/patents/init_events/pph/index.jsp) or send an inquiry to [PPHfeedback@uspto.gov](mailto:PPHfeedback@uspto.gov).

### Application Papers

- 10)  The specification is objected to by the Examiner.
- 11)  The drawing(s) filed on 1/21/14 is/are: a)  accepted or b)  objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

### Priority under 35 U.S.C. § 119

- 12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

#### Certified copies:

- a)  All    b)  Some\*\*    c)  None of the:
1.  Certified copies of the priority documents have been received.
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\*\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1)  Notice of References Cited (PTO-892)
- 2)  Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)  
Paper No(s)/Mail Date 3/21/14.
- 3)  Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 4)  Other: \_\_\_\_\_.

### DETAILED ACTION

The present application is being examined under the pre-AIA first to invent provisions.

The application of Van Swaay for a "programmable communicator" filed January 21, 2014 has been examined.

This application claims foreign priority based on the application 20001239 filed May 23, 2000 in Finland. Receipt is acknowledged of papers submitted under 35 U.S.C 119(a) - (d), which papers have been placed of record in the file.

This application is a CON of 13/934,763, filed July 3, 2013 which is now US PAT No. 8,648,717, which is a CON of 13/801,773 filed March 13, 2013 which is now US PAT No. 8,542,111, which is a CON of 13/328,095 filed December 16, 2011, which is a CON of 12,538,603 filed August 10, 2009 which is now US PAT No. 8,094,010, which is a CON of 11/329,212 filed January 10, 2006 which is now US PAT No. 7,583,197, which is a CON of 10/296,571 filed January 21, 2003 which is abandoned, which is a 371 of PCT/EP01/05738 filed May 18,2001.

Claims 1-20 are pending.

*Specification*

The disclosure is objected to because of the following informalities: Under cross references to related applications CON status needs to be updated. Application serial number 13/934,763 filed July 3, 2013 which is now US PAT No. 8,648,717.

*Claim Rejections - 35 USC § 103*

The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1-20 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Hayes, Jr. et al. (US# 5,974,312) in view of Anderson (US# 5,995,603).

Referring to Claims 1-20, Hayes, Jr. et al. disclose an electronic device (100) (i.e. a programmable communicator device) (column 2 lines 18 to 34; see Figure 1) comprising: a wireless communications circuit (195) having an antenna (118) and configured to communicate over a communications network (column 5 lines 43 to 53; see Figure 2);

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A non-volatile programmable memory (136) (i.e. a programmable identity module) having an electronic serial number (ESN) (i.e. a unique identifier associated with the programmable communicator (100)) (column 6 lines 27 to 34; see Figure 2);

A system connector interface (180) (i.e. a programmable interface) connected to at least one external component (i.e. an attached monitoring device) (column 5 lines 61 to 67; see Figure 2);

A micro-controller (120) (i.e. a processing module) configured to receive and authenticate an at least one transmission from a wireless programmer (200) (i.e. a programming transmitter), the at least one transmission including at least one telephone number or IP address (see Figures 5A to 5C), wherein the processing module (120) is configured to authenticate the at least one transmission by determining if the at least one transmission contains the ESN (i.e. a unique identifier).

However, Hayes, Jr. et al. did not explicitly disclose that wherein the programmable communicator device is configured to use a memory to store at least one telephone number or IP address included within at least one of the transmissions as a list of one or more linked numbers to which the programmable communicator device may send outgoing wireless transmissions; wherein the one or more wireless transmissions from the programming transmitter comprises a General Packet Radio Service (GPRS) or other wireless packet switched data message; and wherein the programmable communicator device is configured to process data received through the programmable interface from the at least one monitored technical device in response to programming instructions received in an incoming wireless packet switched data message.



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At the same field of endeavor of a communication system, Anderson discloses that a memory module (52) configured to store the at least one telephone number from the authenticated transmission as one of a plurality of authorized list of callers to allow phone to communicate with the incoming callers (column 3 lines 50 to 57; column 5 lines 31 to 45; see Figure 3 and 5) in order to generate a distinctive ring for the caller or by redirecting the call to a separate telephone or to an answering machine for only authorized list of callers.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to recognize the need to use a memory to store the telephone number from authenticated signal as an authorized callers taught by Anderson in an the electronic device for updating a memory via a wireless data transfer of Hayes, Jr. et al. because having a memory to store the authorized list of caller would improve an arrangement for screening incoming telephone calls for convenient of the user.

Using the wireless transmissions from the programming transmitter comprises a General Packet Radio Service (GPRS) or other wireless packet switched data message; and wherein the programmable communicator device is configured to process data received through the programmable interface from the at least one monitored technical device in response to programming instructions received in an incoming wireless packet switched data message are well-known.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the wireless communication interface for receiving data over the wireless communication channel Hayes, Jr. et al. in view of Anderson with the GPRS wireless

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transmission because this would provide an alternate wireless communication interface for wireless data transfer in the programming unit.

### *Double Patenting*

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-20 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-134 of U.S. Patent No. 7,583,197. Although the conflicting claims are not identical, they are not patentably distinct from each other because:

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Referring to independent Claim 1 of the application, the programmable communicator device includes a wireless communications circuit, a programmable interface, a processing module, and a memory module. The different is that the independent Claim 1 of the application recites wherein the one or more wireless transmissions from the programming transmitter comprises GPRS or other wireless packet switched data message which would be obvious to one skilled in the art to use for wireless transmissions in the independent claims 1, 29, 40, 68, 79 and 107 of the U.S. Patent No. 7,583,197.

The following claims are patentably similar from each other:

Application	Patent No. 7,583,197
1	1, 29, 40, 68, 79 and 107

3. Claims 1-20 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-197 of U.S. Patent No. 8,094,010. Although the conflicting claims are not identical, they are not patentably distinct from each other because:

Referring to independent Claim 1 of the application, the programmable communicator device includes a wireless communications circuit, a programmable interface, a processing module, and a memory module. The different is that the independent Claim 1 of the application use alternative languages for the similar limitations as the independent claims 1, 52, 104 and 151 of the U.S. Patent No. 8,094,010.

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The following claims are patentably similar from each other:

Application	Patent No. 8,094,010
1	1, 52, 104 and 151

4. Claims 1-20 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-31 of U.S. Patent No. 8,633,802.

Although the conflicting claims are not identical, they are not patentably distinct from each other because:

Referring to independent Claim 1 of the application, the programmable communicator device includes a wireless communications circuit, a programmable interface, a processing module, and a memory module. The different is that the independent Claim 1 of the application use alternative languages for the similar limitations as the independent claim 1 and furthermore the independent Claim 1 of the application is broader.

The following claims are patentably similar from each other:

Application	U.S. Patent No. 8,633,802
1	1

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5. Claims 1-20 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-30 of U.S. Patent No. 8,542,111.

Although the conflicting claims are not identical, they are not patentably distinct from each other because:

Referring to independent Claim 1 of the application, the programmable communicator device includes a wireless communications circuit, a programmable interface, a processing module, and a memory module. The different is that the independent Claim 1 of the application use alternative languages for the similar limitations as the independent claim 1 and furthermore the independent Claim 1 of the application is broader.

The following claims are patentably similar from each other:

Application	U.S. Patent No. 8,542,111
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1	1
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6. Claims 1-20 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-30 of U.S. Patent No. 8,648,717.

Although the conflicting claims are not identical, they are not patentably distinct from each other because:

Referring to independent Claim 1 of the application, the programmable communicator device includes a wireless communications circuit, a programmable interface, a processing

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module, and a memory module. The different is that the independent Claim 1 of the application use alternative languages for the similar limitations as the independent claim 1 and furthermore the independent Claim 1 of the application is broader.

The following claims are patentably similar from each other:

Application	U.S. Patent No. 8,648,717
1	1

### *Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nam V. Nguyen whose telephone number is 571-272-3061. The examiner can normally be reached on Mon-Fri, 8:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Bugg can be reached on 571- 272-2998. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-8300 for regular communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR


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system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/NAM V NGUYEN/  
Primary Examiner, Art Unit 2682

<b>Search Notes</b>  	<b>Application/Control No.</b>  14159849	<b>Applicant(s)/Patent Under Reexamination</b>  WESBY-VAN SWAAY, EVELINE
	<b>Examiner</b>  NAM V NGUYEN	<b>Art Unit</b>  2682

CPC- SEARCHED		
Symbol	Date	Examiner
H04M 3/00	9/30/14	NN

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner
H04Q 7/20; G08B 1/08; H04Q 1/30; H04M 1/56; HO4M 3/00	9/30/14	NN

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
340	7.29; 7.33; 7.52; 529.12; 573.4; 693.5	9/30/14	NN
455	456; 456.2; 418; 419; 425	9/30/14	NN
379	142; 373; 37	9/30/14	NN

SEARCH NOTES		
Search Notes	Date	Examiner
Search EAST: USPAT; US-PUB; EPO; JPO; and Derwent.	9/30/14	NN
search terms: authorized list in cellular phone with monitoring device; sensor; monitoring central station with address; code; number; id code; ip address or phone number.	9/30/14	NN
CON from 14/159,849 and previous continuous of this cases.	9/30/14	NN

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

	/N.V.N./ Primary Examiner.Art Unit 2682
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## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	"20100052864"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/02/20 14:19
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"6385314"	"6389055"	"6389935"
"6392960"	"6393126"	"6400996"
"6404877"	"6421453"	"6442510"
"6445780"	"6513015"	"6519564"
"6547130"	"6556768"	"6556965"
"6559755"	"6570490"). PN. OR	
("6594052"	"6607136"	"6628240"
"6641374"	"6647063"	"6648719"

		"6661563"   "6681008"   "6704715"   "6708892"   "6754641"   "6758404"   "6760276"   "6766946"   "6804778"   "6823452"   "6853731"   "6873974"   "6934848"   "6963842"   "6973426"   "6976164"   "6982649"   "6990334"   "7013301"   "7058376"   "7080253"   "7183929"   "7260221"   "7280970"   "7334735"   "7765373"   "H001469").PN.				
S7	17	"6491566"	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/20 15:47
S8	173	"4840602"	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/20 15:58
S9	15	"6729934"	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/20 15:58
S10	34	"6089942"	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/20 16:01
S11	17	("4245430"   "4451911"   "4696653"   "4840602"   "4850930"   "4857030"   "4923428"   "5029214"   "5281180"   "5324225"   "5458524"   "5802488"   "6089942"   "6149490"   "6253058"   "6445978"   "6463859").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/20 16:06
S12	1	"6822154").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/20 16:11
S13	5	("6822154").URPN.	USPAT	OR	ON	2012/02/20 16:11
S14	12	("1348386"   "1462006"   "4169335"   "4949327"   "5040319"   "5270480"   "5438154"   "5550319"   "6110000"   "6682392").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/20 16:11
S15	1	"7059933"	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/20 16:13
S16	6	("4177453"   "4391224"   "4701681"   "4973941"   "5085610"   "6246927").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/20 16:14
S17	6	"7184423"	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/20 16:15
S18	8	"6551165"	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/20 16:15
S19	2	"20070275634"	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/20 16:17
S20	15	("1804257"   "1931139"   "20030082987"   "2782559"   "4508517" "4568300"   "4938483"   "4940442"   "5100153"   "5749547"   "6491566"   "6674259").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/20 17:10
S21	46	("5270480").URPN.	USPAT	OR	ON	2012/02/20

						17:34
S22	43	("20030037075"   "4593904"   "4755871"   "4807031"   "4840602"   "4972471"   "5057915"   "5113437"   "5116437"   "5191615"   "5213337"   "5270480"   "5319735"   "5452901"   "5581800"   "5592553"   "5719619"   "5752880"   "5822360"   "5822432"   "5828325"   "5832119"   "5893067"   "5905800"   "5933798"   "5940135"   "5943422"   "6031914"   "6061793"   "6094228"   "6154571"   "6160986"   "6175627"   "6209094"   "6389152"   "6411725"   "6427012"   "6449496"   "6490355"   "6571144"   "6592516"   "6661905"   "7164778").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/20 17:36
S23	49	("5452901").URPN.	USPAT	OR	ON	2012/02/20 19:22
S24	2	"20020077021"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/02/20 19:52
S25	24	(US-20100052864-\$ or US-20020077021-\$).did. or (US-6822154-\$ or US-6491566-\$ or US-6246927-\$ or US-6110000-\$ or US-7297044-\$ or US-7252572-\$ or US-6380844-\$ or US-6309275-\$ or US-7068941-\$ or US-6641454-\$ or US-6631351-\$ or US-6551165-\$ or US-6497606-\$ or US-6364735-\$ or US-7137862-\$ or US-6682390-\$ or US-6445978-\$ or US-4923428-\$ or US-5270480-\$ or US-5752880-\$ or US-6352478-\$ or US-6160986-\$).did.	US-PGPUB; USPAT	OR	ON	2012/02/20 19:58
S26	9	S25 and identification	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/02/20 19:58
S27	36	("6352478").URPN.	USPAT	OR	ON	2012/02/20 20:18
S28	25	("6380844").URPN.	USPAT	OR	ON	2012/07/06 15:54
S29	11	("6551165").URPN.	USPAT	OR	ON	2012/07/06 22:50
S30	124	("4923428").URPN.	USPAT	OR	ON	2012/07/06 23:06
S31	95	340/7.35.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/07/07 10:48

S32	23	("4155042"   "4415771"   "4633515"   "4796024"   "4956875"   "5012234"   "5121430"   "5193216"   "5320561"   "5369399"   "5572201"   "5705995"   "5784001"   "6020828"   "6044248"   "6084510"   "6085068"   "6112074"   "6157316"   "6177873"   "6205322"   "6346890"   "6628194").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/07/07 11:04
S33	3	("4870402"   "5784001"   "6020828").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/07/07 11:05
S34	54	("5784001").URPN.	USPAT	OR	ON	2012/07/07 11:08
S35	5	("4897835"   "5452356"   "5537407"   "5552779"   "5784001").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/07/07 11:32
S36	5	("5153582"   "5307399"   "5351235"   "5596318"   "5678179").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/07/07 11:56
S37	15	("6085068").URPN.	USPAT	OR	ON	2012/07/07 11:57
S38	10991	transmit\$4 same message same identifier	USPAT	OR	ON	2012/07/07 14:47
S39	1700	transmit\$4 same message adj2 identifier	USPAT	OR	ON	2012/07/07 14:48
S40	177	S39 and "340"/\$.ccls.	USPAT	OR	ON	2012/07/07 14:48
S41	2899	transmit\$4 same message adj2 code	USPAT	OR	ON	2012/07/07 15:04
S42	478	S41 and "340"/\$.ccls.	USPAT	OR	ON	2012/07/07 15:04
S43	0	S42 and program same toy	USPAT	OR	ON	2012/07/07 15:04
S44	7	S42 and program and toy	USPAT	OR	ON	2012/07/07 15:04
S45	5	("5087905"   "5627525"   "5701258"   "5784001"   "5828313").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/07/07 15:06
S46	5	("5087905"   "5627525"   "5701258"   "5784001"   "5828313").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/07/07 15:08
S47	3	("6032025").URPN.	USPAT	OR	ON	2012/07/07 15:08
S48	16	("4559526"   "4799059"   "4940974"   "4962377"   "5155469"   "5166664"   "5307349"   "5477215"   "5530437"   "5576700"   "5649294"   "5918158"   "5929779"   "5952922"   "5973613"   "6054928").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/07/07 16:24
S49	4	("6917281").URPN.	USPAT	OR	ON	2012/07/07 16:26
S50	200	("4065642"   "4072824"   "4087638"   "4103107"   "4117542"   "4126768"   "4172969"   "4178475"   "4178476"   "4263480"   "4266098"   "4304968"   "4313035"   "4336524"   "4356519"   "4368989"   "4378551"   "4388000"   "4388000").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/07/07 16:54

		"4408099"	"4424514"	"4427848"			
		"4427980"	"4438433"	"4477807"			
		"4490579"	"4600809"	"4608460"			
		"4618860"	"4625081"	"4639225"			
		"4644351"	"4654718"	"4661972"			
		"4680785"	"4682148"	"4692742"			
		"4704608"	"4706272"	"4713808"			
		"4716583"	"4720848"	"4737979"			
		"4742516"	"4747122"	"4754473"			
		"4766434"	"4775999"	"4776005"			
		"4779138"	"4796291"	"4800582"			
		"4802200"	"4803726"	"4806906"			
		"4811379"	"4812743"	"4814763"			
		"4821308"	"4868560"	"4868561"			
		"4868860"	"4872005"	"4873520"			
		"4873719"	"4878051"	"4882579"			
		"4882744"	"4882750"	"4885577"			
		"4893335"	"4897835"	"4899358"			
		"4914691"	"4918721"	"4922221"			
		"4924496"	"4940963"	"4941167"			
		"4942598"	"4951043"	"4961216"			
		"4962377"	"4965569"	"4975683"			
		"4975693"	"4985913"	"4994797"			
		"4996707"	"5014296"	"5043721"			
		"5047764"	"5049874"	"5063588"			
		"5066949"	"5073767"	"5075684"			
		"5093659"	"5095307"	"5099507"			
		"5117449"	"5124697"	"5127040"			
		"5128980"	"5128981"	"5134645"			
		"5144654"	"5146493"	"5148469"			
		"5148473"	"5151929"	"5151930"			
		"5153579"	"5159624"	"5161181"			
		"5166973"	"5175875"	"5182553"			
		"5195130"	"5206637"	"5208849"			
		"5208850"	"5212721"	"5224150"			
		"5225826"	"5228073").PN. OR				
		("5251250"	"5252964"	"5258751"			
		"5272465"	"5274454"	"5274699"			
		"5276731"	"5278889"	"5278894"			
		"5280516"	"5280521"	"5283818"			
		"5283824"	"5285493"	"5285496"			
		"5289528"	"5289530"	"5307399"			
		"5311570"	"5315636"	"5315642"			
		"5317621"	"5321742"	"5323148"			
		"5327480"	"5327486"	"5329578"			
		"5333179"	"5341411"	"5341414"			
		"5343516"	"5349636"	"5349638"			
		"5384831"	"5388150"	"5390236"			
		"5390362"	"5392452"	"5402466"			
		"5404400"	"5412719"	"5418835"			
		"5426426"	"5428823"	"5430439"			
		"5448627"	"5448632"	"5454029"			
		"5459458"	"5459773"	"5467385"			
		"5469491"	"5473667"	"5475738"			
		"5483580"	"5502761"	"5506891"			
		"5509053"	"5517557"	"5524137"			
		"5524140"	"5530740"	"5533095"			
		"5535257"	"5546447"	"5548636"			
		"5548814"	"5557605"	"5559859"			
		"5561702"	"5572576"	"5579377"			
		"5581594"	"5581803"				
		"5588037").PN.					
S51	7	encod\$4 adj2 simplex adj2 signal	US-PGPUB; USPAT;	OR	ON	2012/12/02 10:24	

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S52	90	event adj2 identifier same source adj2 identifier	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/12/02 10:26
S53	3	("20020165987"   "5490217"   "6173239").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/12/02 10:28
S54	0	("8150942").URPN.	USPAT	OR	ON	2012/12/02 10:28
S55	5	event adj2 identifier and source adj2 identifier and (program\$4 adj2 block)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/12/02 10:36
S56	5	event adj2 identifier and source adj2 identifier and (program\$4 adj2 block\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/12/02 10:37
S57	75	event adj2 identifier and (program\$4 adj2 block\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/12/02 10:38
S58	36	("20020013802"   "20020088926"   "20030008684"   "20030129944"   "20030135533"   "20030149741"   "20030161327"   "20030174731"   "20030177275"   "20030178273"   "20030233485"   "20040142682"   "20040174855"   "20040199613"   "20040266480"   "20050057370"   "20050060704"   "20060005132"   "20060181406"   "20070180436"   "20080112313"   "4843606"   "5245608"   "5774461"   "5892769"   "6195760"   "6266781"   "6295447"   "6366826"   "6411991"   "6437692"   "6522628"   "6611834"   "7020501"   "7069027"   "7076211").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/12/02 10:42
S59	171	identifier and (program\$4 adj2 block\$4) and toy\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/12/02 10:47

S60	3	S59 and (source adj2 identifier)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/12/02 10:48
S61	2	"7583197".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/08/08 10:57
S62	4	"8094010"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/08/08 11:37
S63	2	"8094010".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/09/19 10:54
S64	1	"8542111"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/09/19 10:55
S65	17886	transmit\$4 same telephone adj2 number and identification	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/09/19 11:24
S66	1824	transmit\$4 same telephone adj2 number same identification adj2 number	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/09/19 11:24
S67	14	S66 and (permit\$4 adj2 caller)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/09/19 11:25
S68	3	"8648717"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2014/03/07 20:10




			DERWENT; IBM_TDB			
S69	3	permit\$4 adj2 caller adj2 list	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/03/07 21:08
S70	1444	permit\$4 adj2 caller\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/03/07 21:08
S71	67	S70 and (store\$4 adj2 telephone adj2 number)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/03/07 21:08
S72	0	S70 and (store\$4 adj2 teleh04m 3/00hone adj2 number)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/03/07 21:11
S73	876599	h04m 3/00	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/03/07 21:12
S74	9	h04m adj2 3/00	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/03/07 21:12
S75	6	"8648717"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/09/30 13:09
S76	100	("20010001234"   "20020046353"   "20020080938"   "20020198997"   "20030176952"   "20100035580"   "20120088474"   "4465904"   "4658096"   "4855713"   "4908853"   "4951029"   "5012234"   "5276729"   "5293418"   "5348008"   "5381138"   "5396264"   "5544661"   "5548271"   "5581599"   "5581803"   "5623533"   "5689442"   "5689563"   "5742233"   "5742666"	US-PGPUB; USPAT; USOCR	OR	OFF	2014/09/30 13:12

		"5745049"   "5752976"   "5771455"   "5774804"   "5802460"   "5831545"   "5878339"   "5884161"   "5903634"   "5940752"   "5946636"   "5948064"   "5960366"   "5974312"   "5995603"   "5997476"   "5999990"   "6026293"   "6031828"   "6038491"   "6041229"   "6072396"   "6075451"   "6078948"   "6108521"   "6125273"   "6144859"   "6148197"   "6157318"   "6172616"   "6198390"   "6208039"   "6208839"   "6208854"   "6215994"   "6230002"   "6275143"   "6288641"   "6289084"   "6295449"   "6308083"   "6314270"   "6377161"   "6411198"   "6424623"   "6442432"   "6487478"   "6496777"   "6519242"   "6553418"   "6567671"   "6573825"   "6577881"   "6606508"   "6611755"   "6633784"   "6658586"   "6759956"   "6832102"   "6833787"   "6873842"   "6900737"   "6922547"   "6970917"   "6985742"   "6988989"   "7027808"   "7084771"   "7254601"   "7558564"   "7583197"   "7599681"   "8094010").PN.				
S77	821	authenticate\$4 adj2 caller	US-PGPUB; USPAT; USOCR	OR	OFF	2014/09/30 13:13
S78	210	S77 and mobile adj2 phone	US-PGPUB; USPAT; USOCR	OR	OFF	2014/09/30 13:13
S79	1	"7551089".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2014/09/30 14:13
S80	6	"7834765"	US-PGPUB; USPAT; USOCR	OR	OFF	2014/09/30 14:14
S81	2	"5974312".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/09/30 14:18
S82	37	(US-20100052864-\$ or US- 20020077021-\$ or US-20140133406- \$).did. or (US-6822154-\$ or US- 6491566-\$ or US-6246927-\$ or US- 6110000-\$ or US-7297044-\$ or US- 7252572-\$ or US-6380844-\$ or US- 6309275-\$ or US-7068941-\$ or US- 6641454-\$ or US-6631351-\$ or US- 6551165-\$ or US-6497606-\$ or US- 6364735-\$ or US-7137862-\$ or US- 6682390-\$ or US-6445978-\$ or US- 4923428-\$ or US-5270480-\$ or US- 5752880-\$ or US-6352478-\$ or US- 6160986-\$ or US-5784001-\$ or US- 5705995-\$ or US-6917281-\$ or US- 5801231-\$).did. or (US-7561544-\$ or US-7043694-\$ or US-8094010-\$ or US- 6553115-\$ or US-8633802-\$ or US-	US-PGPUB; USPAT; DERWENT	OR	OFF	2014/09/30 17:22

		8648717-\$).did. or (WO-0191428-\$ or WO-9903288-\$).did.				
S83	37	(US-20100052864-\$ or US-20020077021-\$ or US-20140133406-\$).did. or (US-6822154-\$ or US-6491566-\$ or US-6246927-\$ or US-6110000-\$ or US-7297044-\$ or US-7252572-\$ or US-6380844-\$ or US-6309275-\$ or US-7068941-\$ or US-6641454-\$ or US-6631351-\$ or US-6551165-\$ or US-6497606-\$ or US-6364735-\$ or US-7137862-\$ or US-6682390-\$ or US-6445978-\$ or US-4923428-\$ or US-5270480-\$ or US-5752880-\$ or US-6352478-\$ or US-6160986-\$ or US-5784001-\$ or US-5705995-\$ or US-6917281-\$ or US-5801231-\$).did. or (US-7561544-\$ or US-7043694-\$ or US-8094010-\$ or US-6553115-\$ or US-8633802-\$ or US-8648717-\$).did. or (WO-0191428-\$ or WO-9903288-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2014/09/30 17:24
S84	4	S83 and gprs	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/09/30 17:24
S85	4	S83 and general adj2 packet adj2 service	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2014/09/30 17:27

9/ 30/ 2014 9:08:30 PM

C:\Users\nguyen2\Documents\EAST\Workspaces\13934763-programmable communicator dev.wsp

<b><i>Index of Claims</i></b>  	<b>Application/Control No.</b> 14159849	<b>Applicant(s)/Patent Under Reexamination</b> WESBY-VAN SWAAY, EVELINE
	<b>Examiner</b> NAM V NGUYEN	<b>Art Unit</b> 2682

✓	<b>Rejected</b>
=	<b>Allowed</b>

-	<b>Cancelled</b>
÷	<b>Restricted</b>

N	<b>Non-Elected</b>
I	<b>Interference</b>

A	<b>Appeal</b>
O	<b>Objected</b>

Claims renumbered in the same order as presented by applicant
  CPA
  T.D.
  R.1.47

CLAIM		DATE							
Final	Original	09/30/2014							
	1	✓							
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	3	✓							
	4	✓							
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	18	✓							
	19	✓							
	20	✓							

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Eveline Wesby-van Swaay

Application No.:	14/159,849	Art Unit/Group No.:	<del>2472</del> 2682
Filing Date:	January 21, 2014	Examiner:	<del>Hoson Kizoi</del> Nam Nguyen
		Conf. No.:	4281

For: PROGRAMMABLE COMMUNICATOR

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

List of Sections Forming Part of This Information Disclosure Statement

The following sections are being submitted for this Information Disclosure Statement:

1.  Preliminary Statements
2.  Forms PTO/SB/08A and 08B (substitute for Form PTO-1449)
3.  Statement as to Information Not Found in Patents or Publications
4.  Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted
5.  Cumulative Patents or Publications
6.  Copies of Listed Information Items Accompanying This Statement
7.  Concise Explanation of Non-English Language Listed Information Items
  - 7A.  EPO Search Report
  - 7B.  English Language Version of EPO Search Report
8.  Translation(s) of Non-English Language Documents
9.  Concise Explanation of English Language Listed Information Items (Optional)
10.  Identification of Person(s) Making This Information Disclosure Statement

## Section 1. Preliminary Statements

Applicants submit herewith patents, publications or other information, of which they are aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. *Notice of January 9, 1992, 1135 O.G. 13-25, at 25.*

(Information Disclosure Statement—Page 2 of 22)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N./

**Section 2. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Eveline Wesby-van Swaay Attorney Docket: 3781/1015  
 Serial No: 14/159,849 Art Unit/Group No.: ~~2472~~ 2682  
 Filing Date: January 21, 2014 Examiner Name: ~~Hassan Kizou~~ Nam Nguyen  
 Conf. No.: 4281  
 Invention: PROGRAMMABLE COMMUNICATOR

**LIST OF PATENTS AND PUBLICATIONS FOR  
 APPLICANT'S INFORMATION DISCLOSURE STATEMENT**

<b>U.S. PATENT DOCUMENTS</b>					
<b>Examiner Initials</b>	<b>Reference Number</b>	<b>Document Number</b>	<b>Issue Date</b>	<b>Inventor</b>	<b>Class/Subclass</b>
	AA	US 4,465,904	Aug. 14, 1984	Gottsegen et al.	179/5 R
	AB	US 4,658,096	Apr. 14, 1987	West, Jr. et al.	379/59
	AC	US 4,855,713	Aug. 8, 1989	Brunius	340/506
	AD	US 4,908,853	Mar. 13, 1990	Matsumoto	379/355
	AE	US 4,951,029	Aug. 21, 1990	Severson	340/506
	AF	US 5,012,234	Apr. 30, 1991	Dulaney et al.	340/825.44
	AG	US 5,276,729 A	Jan. 4, 1994	Higuchi et al.	379/58
	AH	US 5,293,418 A	Mar. 8, 1994	Fukawa	379/58
	AI	US 5,348,008 A	Sep. 20, 1994	Bornn et al.	128/642
	AJ	US 5,381,138 A	Jan. 10, 1995	Stair et al.	340/825.44
	AK	US 5,396,264 A	Mar. 7, 1995	Falcone et al.	345/146
	AL	US 5,544,661 A	Aug. 13, 1996	Davis et al.	128/700
	AM	US 5,548,271 A	Aug. 20, 1996	Tsuchiyama et al.	340/311.1
	AN	US 5,581,599 A	Dec. 3, 1996	Tsuji et al.	379/63
	AO	US 5,581,803 A	Dec. 3, 1996	Grube et al.	455/54.1
	AP	US 5,623,533 A	Apr. 22, 1997	Kikuchi et al.	379/58
	AQ	US 5,689,442 A	Nov. 18, 1997	Swanson et al.	364/550
	AR	US 5,689,563 A	Nov. 18, 1997	Brown et al.	380/23
	AS	US 5,742,233 A	Apr. 21, 1998	Hoffman et al.	340/573
	AT	US 5,742,666 A	Apr. 21, 1998	Alpert	379/58
	AU	US 5,745,049 A	Apr. 28, 1998	Akiyama et al.	340/870.17
	AV	US 5,752,976 A	May 19, 1998	Duffin et al.	607/32
	AW	US 5,771,455 A	Jun. 23, 1998	Kennedy, III et al.	455/456
	AX	US 5,774,804 A	Jun. 30, 1998	Williams	455/419
	AY	US 5,802,460 A	Sep. 1, 1998	Parvulescu et al.	455/92
	AZ	US 5,831,545 A	Nov. 3, 1998	Murray et al.	340/825.49
	BA	US 5,878,339 A	Mar. 2, 1999	Zicker et al.	455/419
	BB	US 5,884,161 A	Mar. 16, 1999	Hegeman	455/414
	BC	US 5,903,634 A	May 11, 1999	Wakabayashi et al.	379/127
	BD	US 5,940,752 A	Aug. 17, 1999	Henrick	455/419

**Section 2. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)**

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 Conf. No.: 4281  
 Invention: PROGRAMMABLE COMMUNICATOR

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	<b>BE</b>	US 5,946,636 A	Aug. 31, 1999	Uyeno et al.	455/566
	<b>BF</b>	US 5,948,064 A	Sep. 7, 1999	Bertram et al.	709/225
	<b>BG</b>	US 5,960,366 A	Sep. 28, 1999	Duwaer	455/556
	<b>BH</b>	US 5,974,312 A	Oct. 26, 1999	Hayes, Jr. et al.	455/419
	<b>BI</b>	US 5,995,603 A	Nov. 30, 1999	Anderson	379/142
	<b>BJ</b>	US 5,997,476 A	Dec. 7, 1999	Brown	600/300
	<b>BK</b>	US 5,999,990 A	Dec. 7, 1999	Sharrit et al.	710/8
	<b>BL</b>	US 6,026,293 A	Feb. 15, 2000	Osborn	455/411
	<b>BM</b>	US 6,031,828 A	Feb. 29, 2000	Koro et al.	370/336
	<b>BN</b>	US 6,038,491 A	Mar. 14, 2000	McGarry et al.	700/231
	<b>BO</b>	US 6,041,229 A	Mar. 21, 2000	Turner	455/420
	<b>BP</b>	US 6,072,396 A	Jun. 6, 2000	Gaukel	340/573.4
	<b>BQ</b>	US 6,075,451 A	Jun. 13, 2000	Lebowitz et al.	340/825.06
	<b>BR</b>	US 6,078,948 A	Jun. 20, 2000	Podgorny et al.	709/204
	<b>BS</b>	US 6,108,521 A	Aug. 22, 2000	Foladore et al.	455/31.3
	<b>BT</b>	US 6,125,273 A	Sep. 26, 2000	Yamagishi	455/411
	<b>BU</b>	US 6,144,859 A	Nov. 7, 2000	LaDue	455/511
	<b>BV</b>	US 6,148,197 A	Nov. 14, 2000	Bridges et al.	455/432
	<b>BW</b>	US 6,157,318 A	Dec. 5, 2000	Minata	340/825.44
	<b>BX</b>	US 6,172,616 B1	Jan. 9, 2001	Johnson et al.	340/870.12
	<b>BY</b>	US 6,198,390 B1	Mar. 6, 2001	Schlager et al.	340/540
	<b>BZ</b>	US 6,208,039 B1	Mar. 27, 2001	Mendelsohn et al.	307/52
	<b>CA</b>	US 6,208,839 B1	Mar. 27, 2001	Davani	455/31.3
	<b>CB</b>	US 6,208,854 B1	Mar. 27, 2001	Roberts et al.	455/417
	<b>CC</b>	US 6,215,994 B1	Apr. 10, 2001	Schmidt et al.	455/419
	<b>CD</b>	US 6,230,002 B1	May 8, 2001	Flodén et al.	455/411
	<b>CE</b>	US 6,275,143 B1	Aug. 14, 2001	Stobbe	340/10.34
	<b>CF</b>	US 6,288,641 B1	Sep. 11, 2001	Casais	340/539
	<b>CG</b>	US 6,289,084 B1	Sep. 11, 2001	Bushnell	379/67.1
	<b>CH</b>	US 6,295,449 B1	Sep. 25, 2001	Westerlage et al.	455/422



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	<b>CI</b>	US 6,308,083 B2	Oct. 23, 2001	King	455/556
	<b>CJ</b>	US 6,314,270 B1	Nov. 6, 2001	Uchida	455/67.1
	<b>CK</b>	US 6,377,161 B1	Apr. 23, 2002	Gromelski et al.	340/7.45
	<b>CL</b>	US 6,411,198 B1	Jun. 25, 2002	Hirai et al.	340/7.6
	<b>CM</b>	US 6,424,623 B1	Jul. 23, 2002	Borgstahl et al.	370/230
	<b>CN</b>	US 6,442,432 B2	Aug. 27, 2002	Lee	607/59
	<b>CO</b>	US 6,487,478 B1	Nov. 26, 2002	Azzaro et al.	701/24
	<b>CP</b>	US 6,496,777 B2	Dec. 17, 2002	Tennison et al.	701/213
	<b>CQ</b>	US 6,519,242 B1	Feb. 11, 2003	Emery et al.	370/338
	<b>CR</b>	US 6,553,418 B1	Apr. 22, 2003	Collins et al.	709/224
	<b>CS</b>	US 6,567,671 B2	May 20, 2003	Amin	455/550
	<b>CT</b>	US 6,573,825 B1	Jun. 3, 2003	Okano	340/7.51
	<b>CU</b>	US 6,577,881 B1	Jun. 10, 2003	Ehara	455/563
	<b>CV</b>	US 6,606,508 B2	Aug. 12, 2003	Becker et al.	455/567
	<b>CW</b>	US 6,611,755 B1	Aug. 26, 2003	Coffee et al.	701/213
	<b>CX</b>	US 6,633,784 B1	Oct. 14, 2003	Lovelace, II et al.	700/65
	<b>CY</b>	US 6,658,586 B1	Dec. 2, 2003	Levi	714/4
	<b>CZ</b>	US 6,759,956 B2	Jul. 6, 2004	Menard et al.	340/539.19
	<b>DA</b>	US 6,832,102 B2	Dec. 14, 2004	I'Anson	455/556.1
	<b>DB</b>	US 6,833,787 B1	Dec. 21, 2004	Levi	340/539.13
	<b>DC</b>	US 6,873,842 B2	Mar. 29, 2005	Elayda et al.	455/418
	<b>DD</b>	US 6,900,737 B1	May 31, 2005	Ardalan et al	340/870.02
	<b>DE</b>	US 6,922,547 B2	Jul. 26, 2005	O'Neill et al.	455/17
	<b>DF</b>	US 6,970,917 B1	Nov. 29, 2005	Kushwaha et al.	709/217
	<b>DG</b>	US 6,985,742 B1	Jan. 10, 2006	Giniger et al.	455/456.1
	<b>DH</b>	US 6,988,989 B2	Jan. 24, 2006	Weiner et al.	600/300
	<b>DI</b>	US 7,027,808 B2	Apr. 11, 2006	Wesby	455/419
	<b>DJ</b>	US 7,084,771 B2	Aug. 1 2006	Gonzalez	340/573.1
	<b>DK</b>	US 7,254,601 B2	Aug. 7, 2007	Baller et al.	709/200
	<b>DL</b>	US 7,558,564 B2	Jul. 7, 2009	Wesby	455/419

**Section 2. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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	<b>DM</b>	US 7,583,197 B2	Sep. 1, 2009	Wesby Van Swaay	340/573.4
	<b>DN</b>	US 7,599,681 B2	Oct. 6, 2009	Link, II et al.	455/411
	<b>DO</b>	US 8,094,010 B2	Jan. 10, 2012	Wesby-van Swaay	340/539.12
	<b>DP</b>	US 8,542,111 B2	Sep. 24, 2013	Wesby-van Swaay	340/539.12
	<b>DQ</b>	US 8,633,802 B2	Jan. 21, 2014	Wesby-van Swaay	340/7.29
	<b>DR</b>	US 8,648,717 B2	Feb. 11, 2014	Wesby-van Swaay	340/539.12

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<b>Examiner Initials</b>	<b>Reference Number</b>	<b>Document Number</b>	<b>Publication Date</b>	<b>Inventor</b>	<b>Class/Subclass</b>
	<b>DS</b>	US 2001/0001234 A1	May 17, 2001	Addy et al.	340/531
	<b>DT</b>	US 2002/0046353 A1	Apr. 18, 2002	Kishimoto	713/202
	<b>DU</b>	US 2002/0080938 A1	Jun. 27, 2002	Alexander, III et al.	379/106.01
	<b>DV</b>	US 2002/0198997 A1	Dec. 26, 2002	Linthicum et al.	709/227
	<b>DW</b>	US 2003/0176952 A1	Sep. 18, 2003	Collins et al.	700/286
	<b>DX</b>	US 2010/0035580 A1	Feb. 11, 2010	Wesby - Van Swaay	455/411
	<b>DY</b>	US 2012/0088474 A1	Apr. 12, 2012	Wesby-van Swaay	455/411

<b>FOREIGN PATENT DOCUMENTS</b>						
<b>Examiner Initials</b>	<b>Reference Number</b>	<b>Country Code</b>	<b>Document Number</b>	<b>Publication Date</b>	<b>Patentee or Applicant</b>	<b>Class/Subclass</b>
	<b>DZ</b>	EP	0 432 746 A2	Jun. 19, 1991	Siemens Nixdorf Inf. Syst.	H04M 1/57
	<b>EA</b>	EP	0 432 746 A2 [English Abstract]	Jun. 19, 1991	Siemens Nixdorf Inf. Syst.	H04M 1/57

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	<b>EB</b>	EP	0 524 652 A2	Jan. 27, 1993	Ransome Industries Ltd.	H04M 1/274
	<b>EC</b>	WO	95/05609 A2	Feb. 23, 1995	Real Time Data	G01R 27/14
	<b>ED</b>	JP	07-087211 A	Mar. 31, 1995	Fuji Facom Corp.	H04M 11/00
	<b>EE</b>	JP	07-087211 A [English Abstract]	Mar. 31, 1995	Fuji Facom Corp.	H04M 11/00
	<b>EF</b>	JP	09-64950 A	Mar. 7, 1997	Hitachi Ltd.	H04M 1/02
	<b>EG</b>	JP	09-64950 A [English Abstract]	Mar. 7, 1997	Hitachi Ltd.	H04M 1/02
	<b>EH</b>	EP	0 772 336 A2	May 7, 1997	Straeuli et al.	H04M 9/00
	<b>EI</b>	EP	0 772 336 A2 [English Abstract]	May 7, 1997	Straeuli et al.	H04M 9/00
	<b>EJ</b>	WO	97/23104 A1	Jun. 26, 1997	Ericsson Inc.	H04Q 7/22
	<b>EK</b>	DE	196 25 581 A1	Dec. 18, 1997	Plaas-Link	G08B 25/10
	<b>EL</b>	DE	196 25 581 A1 [English Abstract]	Dec. 18, 1997	Plaas-Link	G08B 25/10
	<b>EM</b>	DE	197 07 681 C1	May 7, 1998	Erbel et al.	H04M 1/00
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	<b>EO</b>	WO	98/51059 A2	Nov. 12, 1998	Easy-Phone GmbH	H04M 1/72
	<b>EP</b>	WO	98/56197 A1	Dec. 10, 1998	Telia AB	H04Q 7/22
	<b>EQ</b>	CA	2 293 393 A1 (with English Abstract)	Dec. 23, 1998	Swisscom AG	H04Q 007/32
	<b>ER</b>	WO	99/13629 A1	Mar. 18, 1999	Wesby et al.	H04M 1/72
	<b>ES</b>	WO	99/34339 A2	Jul. 8, 1999	Ameritech Corp.	G08B
	<b>ET</b>	WO	99/49680 A1	Sep. 30, 1999	Bellsouth Intellectual Property Corp.	H04Q 7/22
	<b>EU</b>	WO	99/56262 A1	Nov. 4, 1999	1 <sup>st</sup> International Security Technology OY	G08B 21/100
	<b>EV</b>	WO	00/18175 A2	Mar. 30, 2000	Urbanija et al.	H04Q 9/00
	<b>EW</b>	JP	2000-115859 A	Apr. 21, 2000	Ericsson Inc.	H04Q 7/38
	<b>EX</b>	JP	2000-115859 A [English Abstract]	Apr. 21, 2000	Ericsson Inc.	H04Q 7/38
	<b>EY</b>	EP	0 996 302 A1	Apr. 26, 2000	CIT Alcatel	H04Q 7/32
	<b>EZ</b>	EP	0 996 302 A1 [English Abstract]	Apr. 26, 2000	CIT Alcatel	H04Q 7/32

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	<b>FA</b>	JP	2000-135384 A	May 16, 2000	Fujitsu Ltd.	A63H 3/33
	<b>FB</b>	JP	2000-135384 A [English Abstract]	May 16, 2000	Fujitsu Ltd.	A63H 3/33
	<b>FC</b>	WO	00/56016 A1	Sep. 21, 2000	Siemens AG Österreich	H04L 12/28
	<b>FD</b>	WO	00/70889 A1	Nov. 23, 2000	Medtronic Physio- Control Manufacturing Corp.	H04Q 7/08
	<b>FE</b>	WO	01/03414 A1	Jan. 11, 2001	Musco Corp.	H04M 11/00
	<b>FF</b>	JP	2001-177668 A	Jun. 29, 2001	Toshiba Corp.	H04M 11/00
	<b>FG</b>	JP	2001-177668 A [English Abstract]	Jun. 29, 2001	Toshiba Corp.	H04M 11/00
	<b>FH</b>	JP	2001-249860 A	Sep. 14, 2001	Kenwood Corp.	G06F 13/00
	<b>FI</b>	JP	2001-249860 A [English Abstract]	Sep. 14, 2001	Kenwood Corp.	G06F 13/00
	<b>FJ</b>	JP	2002-077438 A	Mar. 15, 2002	Sony Corp.	H04M 11/00
	<b>FK</b>	JP	2002-077438 A [English Abstract]	Mar. 15, 2002	Sony Corp.	H04M 11/00

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	<b>FL</b>	EP	1 013 055 B1	Apr. 27, 2005	Wesby et al.	H04M 1/72

<b>OTHER DOCUMENTS</b>			
<b>Examiner Initials</b>	<b>Reference Number</b>	<b>Author</b>	<b>Title of Article, Title of Journal, Volume Number, Page Numbers, Date</b>
	<b>FM</b>	European Telecommunications Standards Institute (ETSI)	<i>Digital cellular telecommunications system (Phase 2+); Network architecture (GSM 03.02, version 5.0.0), TS/SMG-030302Q, 20 pages (March, 1996)</i>
	<b>FN</b>	European Telecommunications Standards Institute (ETSI)	<i>Digital cellular telecommunications system (Phase 2+); Specification of the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface (GSM 11.11, version 5.3.0), TS/SMG-091111QR1, 113 pages (July, 1996)</i>
	<b>FO</b>	European Telecommunications Standards Institute (ETSI)	<i>Digital cellular telecommunications system (Phase 2+); Specification of the SIM Application Toolkit for the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface (GSM 11.14, version 5.1.0), TS/SMG-091114Q, 54 pages (August, 1996)</i>
	<b>FP</b>	European Telecommunications Standards Institute (ETSI)	<i>Digital cellular telecommunications system (Phase 2+); Specification of the SIM Application Toolkit for the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface, GSM 11.14, version 5.4.0), TS/SMG-091114Q, 56 pages (July, 1997)</i>

**Section 2. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Eveline Wesby-van Swaay Attorney Docket: 3781/1015  
 Serial No: 14/159,849 Art Unit/Group No.: 2472  
 Filing Date: January 21, 2014 Examiner Name: Hassan Kizou  
 Conf. No.: 4281  
 Invention: PROGRAMMABLE COMMUNICATOR

**LIST OF PATENTS AND PUBLICATIONS FOR  
 APPLICANT'S INFORMATION DISCLOSURE STATEMENT**

<b>OTHER DOCUMENTS</b>			
<b>Examiner Initials</b>	<b>Reference Number</b>	<b>Author</b>	<b>Title of Article, Title of Journal, Volume Number, Page Numbers, Date</b>
	<b>FQ</b>	ETSI European Telecommunications Standards Institute (ETSI)	<i>Digital cellular telecommunications system (Phase 2+); AT command set for GSM Mobile Equipment (ME) (GSM 07.07, version 5.5.0), RE/SMG-040707QR3, 97 pages (February, 1998)</i>
	<b>FR</b>	European Telecommunications Standards Institute (ETSI)	<i>Digital cellular telecommunications system (Phase 2+); Specification of the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface (GSM 11.11, version 7.2.0, Release 1998), SMG version only, not for publication, 133 pages (March, 1999)</i>
	<b>FS</b>	European Telecommunications Standards Institute (ETSI)	<i>Digital cellular telecommunications system (Phase 2+); Use of Data Terminal Equipment - Data Circuit terminating; Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS) (GSM 07.05, version 7.0.0, Release 1998), Available SMG only, 66 pages (March, 1999)</i>
	<b>FT</b>	European Telecommunications Standards Institute (ETSI)	<i>Digital cellular telecommunications system (Phase 2+); Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) interface, (GSM 11.11, version 7.4.0, Release 1998), 134 pages (December, 1999)</i>
	<b>FU</b>	European Telecommunications Standards Institute (ETSI)	<i>Digital cellular telecommunications system (Phase 2+); Specification of the SIM application toolkit for the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface (GSM 11.14, version 6.2.0, Release 1997), 82 pages (November, 1998)</i>

**Section 2. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)**

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	<b>FV</b>	GEMPLUS	<i>Gemplus' start SIM card for advanced GSM services, Microprocessor Cards, GemXplore98 Product Sheet, 2 pages (May, 1999)</i>
	<b>FW</b>	Novatel Wireless	<i>Novatel CDPD (Cellular Digital Packet Data) Software, 42 pages (1999)</i>
	<b>FX</b>	Phonetics, Inc.	<i>Sensaphone 2000 User's Manual, Version 3.0, 118 pages (January, 1998)</i>
	<b>FY</b>	Phonetics, Inc.	<i>Sensaphone 1104, Sensaphone 1108 Potential Disasters, Science/Health/Labs archived website page (<a href="http://www.sensaphone.com/pages/Health Page.html">http://www.sensaphone.com/pages/Health Page.html</a>), 2 pages (December, 1998)</i>
	<b>FZ</b>	Siemens	<i>Siemens Private Communication Systems, Technical Description of the Siemens A1, Edition 5, 53 pages (January, 1998)</i>
	<b>GA</b>	Siemens	<i>Siemens GSM Module M1 User Guide, 76 pages (1996)</i>
	<b>GB</b>	Siemens	<i>Cellular Engine Siemens M20 / M20 Terminal, Technical Description, Version 4, 198 pages (December, 1998)</i>
	<b>GC</b>	Siemens	<i>Cellular Engine Siemens M20 / M20 Terminal, Technical Description, Version 5, 209 pages (March, 1999)</i>
	<b>GD</b>	Siemens	<i>Cellular Engine Siemens M20 / M20 Terminal, Technical Description, Version 7, 221 pages (October, 1999)</i>
	<b>GE</b>	Sierra Wireless	<i>Dart 200 CDPD Modem, For CDPD Versions 1.0 and 1.1, User's Guide, 206 pages (January, 1998)</i>



**Section 2. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)**

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<b>Examiner Initials</b>	<b>Reference Number</b>	<b>Author</b>	<b>Title of Article, Title of Journal, Volume Number, Page Numbers, Date</b>
	<b>GF</b>	Sine Systems, Inc.	<i>Model RFC-1/B, Remote Facilities Controller, archived website page</i> ( <a href="http://www.sinesys.com/html/rfcl.html">http://www.sinesys.com/html/rfcl.html</a> ), 4 Pages (February, 1998)
	<b>GG</b>	Sine Systems, Inc.	<i>Remote Facilities Controller, Model RFC-1/B, Relay Panel, Model RP-8, Installation and Operation</i> , 97 pages (1999)
	<b>GH</b>	Sine Systems, Inc.	<i>Model RFC-1/B Remote Facilities Controller: Dial-up/Automated Transmitter Control System</i> , Press Release, 2 pages (July, 1999)
	<b>GI</b>	Telital	<i>GSM Datablock Product Specification</i> , Revision 2, 30 pages (November, 1997)
	<b>GJ</b>	Telital	Technologies archived website page ( <a href="http://www.telital.com/technologE.html">http://www.telital.com/technologE.html</a> ), 2 pages (April, 2000)
	<b>GK</b>	Telital Automotive	<i>Telital Automotive GM360, Technical Specification</i> , 36 pages (February, 1999)
	<b>GL</b>	Telital Automotive	<i>Telefono GSM Datablock II con funzioni Voce/Dati/Fax/SMS</i> , 91 pages (February, 1999)
	<b>GM</b>	Telular Corporation	<i>Annual Report</i> , 48 pages (1998)
	<b>GN</b>	WAVECOM	<i>Wavecom GSM Modem, Wavecom WM01-G900, Version 7.3, Reference WCOM/GSM/WMO1-G900/modATcmd</i> , 67 pages (December, 1997)
	<b>GO</b>	WAVECOM	<i>WISMO Wireless Standard Module, WM1B-G1900 PCS Module Specifications driven by AT commands</i> , Version 1.2, Reference WCOM/PCS/8001 45 pages (September, 1998)

(Information Disclosure Statement—Page 13 of 22)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N./

**Section 2. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)**

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	<b>GP</b>	WAVECOM	<i>WM02 Modem Series GSM 900 /1800 /1900 User Manual</i> , 23 pages (April, 1999)
	<b>GQ</b>	WAVECOM	<i>WISMO Wireless Standard Module, WM2C-G900/G1800 EGSM/DCS DUAL BAND Module Specifications</i> , Verion 0.7, Reference:WCOM/GSM/WM2C_07, 51 pages (September, 1999)
	<b>GR</b>	Azzaro et al.	Provisional Application – 60/162,249, dated October 28, 1999 (21 pages)
	<b>GS</b>	3GPP (3 <sup>rd</sup> Generation Partnership Project)	<i>3<sup>rd</sup> Generation Partnership Project; Technical Specification Group Terminals; Characteristics of the USIM Application</i> (3G TS 31.102, version 3.0.), 104 pages (January, 2000)
	<b>GT</b>	3GPP (3 <sup>rd</sup> Generation Partnership Project)	<i>3<sup>rd</sup> Generation Partnership Project; Technical Specification Group Terminals; AT command set for 3GPP User Equipment (UE)</i> (3G TS 27.007, version 3.4.0, Release 1999), 154 pages (March, 2000)
	<b>GU</b>	3GPP (3 <sup>rd</sup> Generation Partnership Project)	<i>3<sup>rd</sup> Generation Partnership Project; Technical Specification Group Terminals; USIM Application Toolkit (USAT)</i> (3G TS 31.111, version 3.0.0, Release 1999), 138 pages (April, 2000)
	<b>GV</b>	Akselsen et al.	<i>Telemedicine and ISD</i> , IEEE Communications Magazine, pp. 46-51 (January, 1993)

(Information Disclosure Statement–Page 14 of 22)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N./

**Section 2. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)**

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	<b>GW</b>	Bettstetter et al.	<i>GSM Phase 2+ General Packet Radio Service GPRS: Architecture, Protocols, and Air Interface</i> , IEEE Communications Surveys, <a href="http://www.comsoc.org/pubs/surveys">http://www.comsoc.org/pubs/surveys</a> , Vol. 2, No.3, pp. 2-14 (1999)
	<b>GX</b>	Bult et al.	<i>Low Power Systems for Wireless Microsensors</i> , UCLA Electrical Engineering Department, Los Angeles, CA and Rockwell Science Center, Thousand Oaks, CA, 5 pages (1996)
	<b>GY</b>	Carman et al / NAI Labs	<i>A Communications Security Architecture and Cryptographic Mechanisms for Distributed Sensor Networks</i> , DARPA/ITO Sensor IT Workshop, 24 pages (October, 1999)
	<b>GZ</b>	Chandrakasan et al.	<i>Design Considerations for Distributed Microsensor Systems</i> , Department of EECS, Massachusetts Institute of Technology, Cambridge, MA, IEEE 1999, Custom Intergrated Circuits Conference, 8 Pages (1999)
	<b>HA</b>	Godfrey	<i>A Comparison of Security Protocols in a Wireless Network Environment</i> , A thesis presented to the University of Waterloo, Ontario, Canada, 87 pages (1995)
	<b>HB</b>	Hodes et al.	<i>Composable ad hoc location-based services for heterogeneous mobile clients</i> , Wireless Networks 5, pp. 411-427 (1999)
	<b>HC</b>	Istepanian et al.	<i>Design of mobile telemedicine systems using GSM and IS-54 cellular telephone standards</i> , Journal of Telemedicine and Telecare, Vol. 4, Supplement 1, pp. 80-82 (1999)

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	<b>HD</b>	Istepanian	<i>Modelling of GSM-based Mobile Telemedical System</i> , Proceedings of the 20 <sup>th</sup> Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Vol. 20, No. 3, pp. 1166-1169 (1998)
	<b>HE</b>	Kahn et al.	<i>Next Century Challenges: Mobile Networking for "Smart Dust"</i> , Department of Electrical Engineering and Computer Science, 8 pages (1999)
	<b>HF</b>	Miles	<i>System Monitoring, Messaging and Notification</i> , Proceedings of SAGE-AU, 15 pages (June, 1999)
	<b>HG</b>	Pavlopoulos et al.	<i>A Novel Emergency Telemedicine System Based on Wireless Communication Technology - "Ambulance"</i> , IEEE Transactions on Information in Biomedicine, Vol. 2, No.4, pp. 261-267 (1998)
	<b>HH</b>	Prasad et al.	<i>Security Architecture for Wireless LANs: Corporate &amp; Public Environment</i> , IEEE VTC, pp. 283-287 (2000)
	<b>HI</b>	Redl et al.	<i>GSM and Personal Communications Handbook</i> , ISBN 0-89006-957-3, 80 pages (1998)
	<b>HJ</b>	Schlumberger	<i>Schlumberger Java SIMs and Over-the-Air Server Allow Sunday to Evolve Phones Into Multi-Service Terminals</i> , 3 pages (July, 1999)
	<b>HK</b>	Steiner et al.	<i>Kerberos: An Authentication Service for Open Network Systems</i> , Project Athena, Massachusetts Institute of Technology, 15 pages (1988)
	<b>HL</b>	Taylor et al.	<i>Internetwork Mobility: The CDPD Approach</i> , 334 pages (June, 1996)

**Section 2. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)**

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	<b>HM</b>	Wu et al.	<i>A Mobile System for Real-Time Patient- Monitoring with Integrated Physiological Signal Processing</i> , Proceedings of the First Joint BMES/EMBS Conference Serving Humanity, Advancing Technology, Atlanta, GA (October, 1999)
	<b>HN</b>	U.S.D.C. for the District of Delaware	Defendant's Initial Invalidity Contentions, including Appendix A-Z, AA and DD, 1046 pages (served on March 8, 2013)
	<b>HO</b>	U.S.D.C. for the District of Delaware	Defendant's Kowatec's Initial Invalidity Contentions, 3 pages (served April 15, 2013)
	<b>HP</b>	U.S.D.C. for the District of Delaware	Appendices DD-EE for Defendant's Kowatec's Initial Invalidity Contentions, 126 pages (served on April 15, 2013)
	<b>HQ</b>	U.S.D.C. for the District of Delaware	Defendant's Answering Brief, 39 pages (served on June 21, 2013)
	<b>HR</b>		M2M Solutions LLC et al. v. SimCom Wireless Solutions Co., Ltd. et al., U.S.D.C. for the District of Delaware – Civil Action No. 12-030-RGA, <i>Defendants' First Supplemental Invalidity Contentions</i> , served July 5, 2013 (9 pages)
	<b>HS</b>		M2M Solutions LLC et al. v. SimCom Wireless Solutions Co., Ltd. et al., U.S.D.C. for the District of Delaware – Civil Action No. 12-030-RGA, <i>Appendices A-Z and AA: Defendants' First Supplemental Invalidity Contentions</i> , served July 5, 2013 (1084 pages)

**Section 2. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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	<b>HT</b>		M2M Solutions LLC et al. v. SimCom Wireless Solutions Co., Ltd. et al., U.S.D.C. for the District of Delaware – Civil Action No. 12-030-RGA, <i>Defendants' Sur-Reply Brief on Claim Construction</i> , served July 26, 2013 (19 pages)
	<b>HU</b>		M2M Solutions LLC v. Sierra Wireless America, Inc. and Sierra Wireless, Inc. et al., U.S.D.C. for the District of Delaware – Civil Action No. 12-030-RGA, <i>Memorandum Opinion</i> , served on November 12, 2013 (20 pages)
	<b>HV</b>	Jonathan C. Lovely, Esq. Sunstein Kann Murphy & Timbers LLP	Track One Continuation Application – Serial No. 14/169,603, as filed January 31, 2014 (40 pages)
	<b>HW</b>	Jonathan C. Lovely, Esq. Sunstein Kann Murphy & Timbers LLP	Track One Continuation Application – Serial No. 14/175,171, as filed February 7, 2014 (41 pages)

Examiner Signature: <u>          /Nam Nguyen/          </u>
Date Considered: <u>          09/30/2014          </u>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation <i>if not</i> in conformance and not considered. Include copy of this form with next communication to applicant.

**Section 4. Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted**

This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application Serial No. 13/934,763, filed July 3, 2013.

[X] This application also relies, under 35 U.S.C. section 120, on the earlier filing date of prior application Serial No. 13/801,773, filed March 13, 2013.

[X] This application also relies, under 35 U.S.C. section 120, on the earlier filing date of prior application Serial No. 13/328,095, filed December 16, 2011.

[X] This application also relies, under 35 U.S.C. section 120, on the earlier filing date of prior application Serial No. 12/538,603, filed August 10, 2009.

[X] This application also relies, under 35 U.S.C. section 120, on the earlier filing date of prior application Serial No. 11/329,212, filed January 10, 2006.

[X] This application also relies, under 35 U.S.C. section 120, on the earlier filing date of prior application Serial No. 10/296,571, filed, January 21, 2003.

The following references were submitted to, and/or cited by, the Office in the prior application(s) and, therefore, are not required to be provided in this application:

**Reference Nos.: AA - HU**

**Section 6. Copies of Listed Information Items Accompanying This Statement**

Legible copies of all items listed in Forms PTO/SB/08A and 08B (substitute for Form PTO-1449) accompany this information statement.

Exception(s) to above:

**U.S. patent citations are not included pursuant to the United States Patent and Trademark Office's September 21, 2004 waiver of the copy requirement in 37 CFR 1.98 for cited pending U.S. patent citations when the patent citations are available in the USPTO's IFW system.**

Items in prior application, from which an earlier filing date is claimed for this application, as identified in Section 4.

Cumulative patents or publications identified in Section 5.



**Section 8. Translation(s) of Non-English Language Documents**

Submitted herewith is an English translation of the following foreign language patents, publications or information or of those portions of those patents, publications or information considered to be material:

Reference **EA** is believed to be the English abstract of Reference **DZ**;  
Reference **EE** is believed to be the English abstract of Reference **ED**;  
Reference **EG** is believed to be the English abstract of Reference **EF**;  
Reference **EI** is believed to be the English abstract of Reference **EH**;  
Reference **EL** is believed to be the English abstract of Reference **EK**;  
Reference **EN** is believed to be the English abstract of Reference **EM**;  
Reference **EX** is believed to be the English abstract of Reference **EW**;  
Reference **EZ** is believed to be the English abstract of Reference **EY**;  
Reference **FB** is believed to be the English abstract of Reference **FA**;  
Reference **FG** is believed to be the English abstract of Reference **FF**;  
Reference **FI** is believed to be the English abstract of Reference **FH**; and  
Reference **FK** is believed to be the English abstract of Reference **FJ**.

**Section 10. Identification of Person Making This Information Disclosure Statement**

The person making this certification is the practitioner of record.

Dated: March 21, 2014

/Jonathan C. Lovely, #60,821/

**SIGNATURE OF PRACTITIONER**

Reg. No. 60,821

Jonathan C. Lovely

*(type or print name of practitioner)*

Tel. No.: (617) 443-9292

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03781/01015 2057029.1


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**BIB DATA SHEET**
**CONFIRMATION NO. 4281**

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.	
14/159,849	01/21/2014	370	2682	3781/1015	
<b>APPLICANTS</b> M2M Solutions LLC, Stratford-upon-Avon, UNITED KINGDOM, Assignee (with 37 CFR 1.172 Interest);					
<b>INVENTORS</b> Eveline Wesby-van Swaay, Stratford-upon-Avon, UNITED KINGDOM;					
<b>** CONTINUING DATA *****</b> Yes /NN/ This application is a CON of 13/934,763 07/03/2013 PAT 8648717 which is a CON of 13/801,773 03/13/2013 PAT 8542111 which is a CON of 13/328,095 12/16/2011 PAT 8633802 which is a CON of 12/538,603 08/10/2009 PAT 8094010 which is a CON of 11/329,212 01/10/2006 PAT 7583197 which is a CON of 10/296,571 01/21/2003 ABN which is a 371 of PCT/EP01/05738 05/18/2001					
<b>** FOREIGN APPLICATIONS *****</b> Yes /NN/ FINLAND 20001239 05/23/2000					
<b>** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY **</b> 02/03/2014					
Foreign Priority claimed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 35 USC 119(a-d) conditions met <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Verified and Acknowledged <u>/NAM V NGUYEN/</u> <small>Examiner's Signature</small>	<input type="checkbox"/> Met after Allowance NN <small>Initials</small>	<b>STATE OR COUNTRY</b> UNITED KINGDOM	<b>SHEETS DRAWINGS</b> 3	<b>TOTAL CLAIMS</b> 20	<b>INDEPENDENT CLAIMS</b> 1
<b>ADDRESS</b> Sunstein Kann Murphy & Timbers LLP 125 SUMMER STREET BOSTON, MA 02110-1618 UNITED STATES					
<b>TITLE</b> Programmable Communicator					
<b>FILING FEE RECEIVED</b> 800	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit		



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Table with 4 columns: APPLICATION NUMBER (14/159,849), FILING OR 371(C) DATE (01/21/2014), FIRST NAMED APPLICANT (Eveline Wesby-van Swaay), ATTY. DOCKET NO./TITLE (3781/1015)

CONFIRMATION NO. 4281

PUBLICATION NOTICE

2101
Sunstein Kann Murphy & Timbers LLP
125 SUMMER STREET
BOSTON, MA 02110-1618



Title: Programmable Communicator

Publication No. US-2014-0133406-A1

Publication Date: 05/15/2014

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently http://pair.uspto.gov/. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/159,849	01/21/2014	Eveline Wesby-van Swaay	3781/1015

**CONFIRMATION NO. 4281**

**POA ACCEPTANCE LETTER**

2101  
Sunstein Kann Murphy & Timbers LLP  
125 SUMMER STREET  
BOSTON, MA 02110-1618



Date Mailed: 03/31/2014

**NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY**

This is in response to the Power of Attorney filed 03/21/2014.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/kgebremichael/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Eveline Wesby-van Swaay

Application No.: 14/159,849

Group No.: 2472

Filed: January 21, 2014

Examiner: Kizou, Hassan

For: Programmable Communicator

**Mail Stop Missing Parts**

**Commissioner for Patents**

**P.O. Box 1450**

**Alexandria, VA 22313-1450**

**RESPONSE TO INFORMATIONAL NOTICE TO APPLICANT**

- I. This replies to the Informational Notice to Applicant mailed February 6, 2014. A copy of the Informal Notice to Applicant is attached.

**DECLARATION OR OATH**

- II. No declaration or oath was filed with the application. Attached is the executed declaration for this application.

**POWER OF ATTORNEY**

- III. Attached is a Power of Attorney.

**ADDITIONAL FEES**

- IV. If any additional fees are required, please charge Deposit Account Number 19-4972.

Date: March 21, 2014

/Jonathan C. Lovely, #60821/

Jonathan C. Lovely

Registration No. 60,821

SUNSTEIN KANN MURPHY & TIMBERS LLP

125 Summer Street

Boston, MA 02110-1618

617-443-9292

Customer No. 02101

03781/01015 2072675.1



UNITED STATES PATENT AND TRADEMARK OFFICE

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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/159,849	01/21/2014	Eveline Wesby-van Swaay	3781/1015

**CONFIRMATION NO. 4281**

2101  
Sunstein Kann Murphy & Timbers LLP  
125 SUMMER STREET  
BOSTON, MA 02110-1618

**NOTICE**



Date Mailed: 02/06/2014

**INFORMATIONAL NOTICE TO APPLICANT**

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):  
Eveline Wesby-van Swaay

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	18546055
<b>Application Number:</b>	14159849
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	4281
<b>Title of Invention:</b>	Programmable Communicator
<b>First Named Inventor/Applicant Name:</b>	Eveline Wesby-van Swaay
<b>Customer Number:</b>	2101
<b>Filer:</b>	Jonathan Lovely
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	3781/1015
<b>Receipt Date:</b>	21-MAR-2014
<b>Filing Date:</b>	21-JAN-2014
<b>Time Stamp:</b>	14:15:23
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	no
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### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Information_Disclosure_Statement.pdf	220353 d90bad26fe01aaffcd5e22754dd38d6248d9a4d1	yes	23



Multipart Description/PDF files in .zip description					
Document Description			Start	End	
Transmittal Letter			1	1	
Information Disclosure Statement (IDS) Form (SB08)			2	23	
<b>Warnings:</b>					
<b>Information:</b>					
2	Other Reference-Patent/App/Search documents	Ref_HV.pdf	2556065 989b459e1f5cb405dac3cf698b4853cf070cb69e	no	40
<b>Warnings:</b>					
<b>Information:</b>					
3	Other Reference-Patent/App/Search documents	Ref_HW.pdf	2579496 3dd3afed43efcf3d7e7228e45845d7bd8362210e	no	41
<b>Warnings:</b>					
<b>Information:</b>					
4	Oath or Declaration filed	klw3781_1015_Declaration.pdf	1673324 f76a24bee2a433c1610d693941b670e62170f3bb	no	1
<b>Warnings:</b>					
<b>Information:</b>					
5	Power of Attorney	3781_GenPOA.pdf	4110253 0f38617d9603796d05a26f17fa8eba48d2e8e6d0	no	1
<b>Warnings:</b>					
<b>Information:</b>					
6	Applicant Response to Pre-Exam Formalities Notice	klw3781_1015_COFR.pdf	103634 f0a46e3ee2354de8329cee0haf4afd314baa5ca8	no	2
<b>Warnings:</b>					
<b>Information:</b>					
<b>Total Files Size (in bytes):</b>			11243125		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

*In re* application of: Eveline Wesby-van Swaay

Application No.: 14/159,849  
Filing Date: January 21, 2014

Art Unit/Group No.: 2472  
Examiner: Hassan Kizou  
Conf. No.: 4281

For: PROGRAMMABLE COMMUNICATOR

**Mail Stop Amendment**  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT  
WITHIN THREE MONTHS OF FILING OR  
BEFORE MAILING OF FIRST OFFICE ACTION (37 C.F.R. § 1.97(b))**

**IDENTIFICATION OF TIME OF FILING THE ACCOMPANYING  
INFORMATION DISCLOSURE STATEMENT**

The information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office Action on the merits, whichever event occurs last. 37 C.F.R. § 1.97(b).

DATE: March 21, 2014

/Jonathan C. Lovely, #60,821/

Jonathan C. Lovely  
Registration No. 60,821  
SUNSTEIN KANN MURPHY & TIMBERS LLP  
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UNITED STATES

03781/01015 2057052.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

*In re* application of: Eveline Wesby-van Swaay

Application No.:	14/159,849	Art Unit/Group No.:	2472
Filing Date:	January 21, 2014	Examiner:	Hassan Kizou
		Conf. No.:	4281

For: PROGRAMMABLE COMMUNICATOR

**Mail Stop Amendment**  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

INFORMATION DISCLOSURE STATEMENT

**List of Sections Forming Part of This Information Disclosure Statement**

The following sections are being submitted for this Information Disclosure Statement:

1.  Preliminary Statements
2.  Forms PTO/SB/08A and 08B (substitute for Form PTO-1449)
3.  Statement as to Information Not Found in Patents or Publications
4.  Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted
5.  Cumulative Patents or Publications
6.  Copies of Listed Information Items Accompanying This Statement
7.  Concise Explanation of Non-English Language Listed Information Items
  - 7A.  EPO Search Report
  - 7B.  English Language Version of EPO Search Report
8.  Translation(s) of Non-English Language Documents
9.  Concise Explanation of English Language Listed Information Items (Optional)
10.  Identification of Person(s) Making This Information Disclosure Statement

## Section 1. Preliminary Statements

Applicants submit herewith patents, publications or other information, of which they are aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. *Notice of January 9, 1992, 1135 O.G. 13-25, at 25.*

**Section 2. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Eveline Wesby-van Swaay Attorney Docket: 3781/1015  
 Serial No: 14/159,849 Art Unit/Group No.: 2472  
 Filing Date: January 21, 2014 Examiner Name: Hassan Kizou  
 Conf. No.: 4281  
 Invention: PROGRAMMABLE COMMUNICATOR

**LIST OF PATENTS AND PUBLICATIONS FOR  
 APPLICANT'S INFORMATION DISCLOSURE STATEMENT**

<b>U.S. PATENT DOCUMENTS</b>					
<b>Examiner Initials</b>	<b>Reference Number</b>	<b>Document Number</b>	<b>Issue Date</b>	<b>Inventor</b>	<b>Class/Subclass</b>
	AA	US 4,465,904	Aug. 14, 1984	Gottsegen et al.	179/5 R
	AB	US 4,658,096	Apr. 14, 1987	West, Jr. et al.	379/59
	AC	US 4,855,713	Aug. 8, 1989	Brunius	340/506
	AD	US 4,908,853	Mar. 13, 1990	Matsumoto	379/355
	AE	US 4,951,029	Aug. 21, 1990	Severson	340/506
	AF	US 5,012,234	Apr. 30, 1991	Dulaney et al.	340/825.44
	AG	US 5,276,729 A	Jan. 4, 1994	Higuchi et al.	379/58
	AH	US 5,293,418 A	Mar. 8, 1994	Fukawa	379/58
	AI	US 5,348,008 A	Sep. 20, 1994	Bornn et al.	128/642
	AJ	US 5,381,138 A	Jan. 10, 1995	Stair et al.	340/825.44
	AK	US 5,396,264 A	Mar. 7, 1995	Falcone et al.	345/146
	AL	US 5,544,661 A	Aug. 13, 1996	Davis et al.	128/700
	AM	US 5,548,271 A	Aug. 20, 1996	Tsuchiyama et al.	340/311.1
	AN	US 5,581,599 A	Dec. 3, 1996	Tsuji et al.	379/63
	AO	US 5,581,803 A	Dec. 3, 1996	Grube et al.	455/54.1
	AP	US 5,623,533 A	Apr. 22, 1997	Kikuchi et al.	379/58
	AQ	US 5,689,442 A	Nov. 18, 1997	Swanson et al.	364/550
	AR	US 5,689,563 A	Nov. 18, 1997	Brown et al.	380/23
	AS	US 5,742,233 A	Apr. 21, 1998	Hoffman et al.	340/573
	AT	US 5,742,666 A	Apr. 21, 1998	Alpert	379/58
	AU	US 5,745,049 A	Apr. 28, 1998	Akiyama et al.	340/870.17
	AV	US 5,752,976 A	May 19, 1998	Duffin et al.	607/32
	AW	US 5,771,455 A	Jun. 23, 1998	Kennedy, III et al.	455/456
	AX	US 5,774,804 A	Jun. 30, 1998	Williams	455/419
	AY	US 5,802,460 A	Sep. 1, 1998	Parvulescu et al.	455/92
	AZ	US 5,831,545 A	Nov. 3, 1998	Murray et al.	340/825.49
	BA	US 5,878,339 A	Mar. 2, 1999	Zicker et al.	455/419
	BB	US 5,884,161 A	Mar. 16, 1999	Hegeman	455/414
	BC	US 5,903,634 A	May 11, 1999	Wakabayashi et al.	379/127
	BD	US 5,940,752 A	Aug. 17, 1999	Henrick	455/419

**Section 2. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Eveline Wesby-van Swaay Attorney Docket: 3781/1015  
 Serial No: 14/159,849 Art Unit/Group No.: 2472  
 Filing Date: January 21, 2014 Examiner Name: Hassan Kizou  
 Conf. No.: 4281  
 Invention: PROGRAMMABLE COMMUNICATOR

**LIST OF PATENTS AND PUBLICATIONS FOR  
 APPLICANT'S INFORMATION DISCLOSURE STATEMENT**

<b>U.S. PATENT DOCUMENTS</b>					
<b>Examiner Initials</b>	<b>Reference Number</b>	<b>Document Number</b>	<b>Issue Date</b>	<b>Inventor</b>	<b>Class/Subclass</b>
	<b>BE</b>	US 5,946,636 A	Aug. 31, 1999	Uyeno et al.	455/566
	<b>BF</b>	US 5,948,064 A	Sep. 7, 1999	Bertram et al.	709/225
	<b>BG</b>	US 5,960,366 A	Sep. 28, 1999	Duwaer	455/556
	<b>BH</b>	US 5,974,312 A	Oct. 26, 1999	Hayes, Jr. et al.	455/419
	<b>BI</b>	US 5,995,603 A	Nov. 30, 1999	Anderson	379/142
	<b>BJ</b>	US 5,997,476 A	Dec. 7, 1999	Brown	600/300
	<b>BK</b>	US 5,999,990 A	Dec. 7, 1999	Sharrit et al.	710/8
	<b>BL</b>	US 6,026,293 A	Feb. 15, 2000	Osborn	455/411
	<b>BM</b>	US 6,031,828 A	Feb. 29, 2000	Koro et al.	370/336
	<b>BN</b>	US 6,038,491 A	Mar. 14, 2000	McGarry et al.	700/231
	<b>BO</b>	US 6,041,229 A	Mar. 21, 2000	Turner	455/420
	<b>BP</b>	US 6,072,396 A	Jun. 6, 2000	Gaukel	340/573.4
	<b>BQ</b>	US 6,075,451 A	Jun. 13, 2000	Lebowitz et al.	340/825.06
	<b>BR</b>	US 6,078,948 A	Jun. 20, 2000	Podgorny et al.	709/204
	<b>BS</b>	US 6,108,521 A	Aug. 22, 2000	Foladore et al.	455/31.3
	<b>BT</b>	US 6,125,273 A	Sep. 26, 2000	Yamagishi	455/411
	<b>BU</b>	US 6,144,859 A	Nov. 7, 2000	LaDue	455/511
	<b>BV</b>	US 6,148,197 A	Nov. 14, 2000	Bridges et al.	455/432
	<b>BW</b>	US 6,157,318 A	Dec. 5, 2000	Minata	340/825.44
	<b>BX</b>	US 6,172,616 B1	Jan. 9, 2001	Johnson et al.	340/870.12
	<b>BY</b>	US 6,198,390 B1	Mar. 6, 2001	Schlager et al.	340/540
	<b>BZ</b>	US 6,208,039 B1	Mar. 27, 2001	Mendelsohn et al.	307/52
	<b>CA</b>	US 6,208,839 B1	Mar. 27, 2001	Davani	455/31.3
	<b>CB</b>	US 6,208,854 B1	Mar. 27, 2001	Roberts et al.	455/417
	<b>CC</b>	US 6,215,994 B1	Apr. 10, 2001	Schmidt et al.	455/419
	<b>CD</b>	US 6,230,002 B1	May 8, 2001	Flodén et al.	455/411
	<b>CE</b>	US 6,275,143 B1	Aug. 14, 2001	Stobbe	340/10.34
	<b>CF</b>	US 6,288,641 B1	Sep. 11, 2001	Casais	340/539
	<b>CG</b>	US 6,289,084 B1	Sep. 11, 2001	Bushnell	379/67.1
	<b>CH</b>	US 6,295,449 B1	Sep. 25, 2001	Westerlage et al.	455/422

**Section 2. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Eveline Wesby-van Swaay Attorney Docket: 3781/1015  
 Serial No: 14/159,849 Art Unit/Group No.: 2472  
 Filing Date: January 21, 2014 Examiner Name: Hassan Kizou  
 Conf. No.: 4281  
 Invention: PROGRAMMABLE COMMUNICATOR

**LIST OF PATENTS AND PUBLICATIONS FOR  
 APPLICANT'S INFORMATION DISCLOSURE STATEMENT**

<b>U.S. PATENT DOCUMENTS</b>					
<b>Examiner Initials</b>	<b>Reference Number</b>	<b>Document Number</b>	<b>Issue Date</b>	<b>Inventor</b>	<b>Class/Subclass</b>
	<b>CI</b>	US 6,308,083 B2	Oct. 23, 2001	King	455/556
	<b>CJ</b>	US 6,314,270 B1	Nov. 6, 2001	Uchida	455/67.1
	<b>CK</b>	US 6,377,161 B1	Apr. 23, 2002	Gromelski et al.	340/7.45
	<b>CL</b>	US 6,411,198 B1	Jun. 25, 2002	Hirai et al.	340/7.6
	<b>CM</b>	US 6,424,623 B1	Jul. 23, 2002	Borgstahl et al.	370/230
	<b>CN</b>	US 6,442,432 B2	Aug. 27, 2002	Lee	607/59
	<b>CO</b>	US 6,487,478 B1	Nov. 26, 2002	Azzaro et al.	701/24
	<b>CP</b>	US 6,496,777 B2	Dec. 17, 2002	Tennison et al.	701/213
	<b>CQ</b>	US 6,519,242 B1	Feb. 11, 2003	Emery et al.	370/338
	<b>CR</b>	US 6,553,418 B1	Apr. 22, 2003	Collins et al.	709/224
	<b>CS</b>	US 6,567,671 B2	May 20, 2003	Amin	455/550
	<b>CT</b>	US 6,573,825 B1	Jun. 3, 2003	Okano	340/7.51
	<b>CU</b>	US 6,577,881 B1	Jun. 10, 2003	Ehara	455/563
	<b>CV</b>	US 6,606,508 B2	Aug. 12, 2003	Becker et al.	455/567
	<b>CW</b>	US 6,611,755 B1	Aug. 26, 2003	Coffee et al.	701/213
	<b>CX</b>	US 6,633,784 B1	Oct. 14, 2003	Lovelace, II et al.	700/65
	<b>CY</b>	US 6,658,586 B1	Dec. 2, 2003	Levi	714/4
	<b>CZ</b>	US 6,759,956 B2	Jul. 6, 2004	Menard et al.	340/539.19
	<b>DA</b>	US 6,832,102 B2	Dec. 14, 2004	I'Anson	455/556.1
	<b>DB</b>	US 6,833,787 B1	Dec. 21, 2004	Levi	340/539.13
	<b>DC</b>	US 6,873,842 B2	Mar. 29, 2005	Elayda et al.	455/418
	<b>DD</b>	US 6,900,737 B1	May 31, 2005	Ardalan et al	340/870.02
	<b>DE</b>	US 6,922,547 B2	Jul. 26, 2005	O'Neill et al.	455/17
	<b>DF</b>	US 6,970,917 B1	Nov. 29, 2005	Kushwaha et al.	709/217
	<b>DG</b>	US 6,985,742 B1	Jan. 10, 2006	Giniger et al.	455/456.1
	<b>DH</b>	US 6,988,989 B2	Jan. 24, 2006	Weiner et al.	600/300
	<b>DI</b>	US 7,027,808 B2	Apr. 11, 2006	Wesby	455/419
	<b>DJ</b>	US 7,084,771 B2	Aug. 1 2006	Gonzalez	340/573.1
	<b>DK</b>	US 7,254,601 B2	Aug. 7, 2007	Baller et al.	709/200
	<b>DL</b>	US 7,558,564 B2	Jul. 7, 2009	Wesby	455/419



**Section 2. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Eveline Wesby-van Swaay Attorney Docket: 3781/1015  
 Serial No: 14/159,849 Art Unit/Group No.: 2472  
 Filing Date: January 21, 2014 Examiner Name: Hassan Kizou  
 Conf. No.: 4281  
 Invention: PROGRAMMABLE COMMUNICATOR

**LIST OF PATENTS AND PUBLICATIONS FOR  
 APPLICANT'S INFORMATION DISCLOSURE STATEMENT**

<b>U.S. PATENT DOCUMENTS</b>					
<b>Examiner Initials</b>	<b>Reference Number</b>	<b>Document Number</b>	<b>Issue Date</b>	<b>Inventor</b>	<b>Class/Subclass</b>
	<b>DM</b>	US 7,583,197 B2	Sep. 1, 2009	Wesby Van Swaay	340/573.4
	<b>DN</b>	US 7,599,681 B2	Oct. 6, 2009	Link, II et al.	455/411
	<b>DO</b>	US 8,094,010 B2	Jan. 10, 2012	Wesby-van Swaay	340/539.12
	<b>DP</b>	US 8,542,111 B2	Sep. 24, 2013	Wesby-van Swaay	340/539.12
	<b>DQ</b>	US 8,633,802 B2	Jan. 21, 2014	Wesby-van Swaay	340/7.29
	<b>DR</b>	US 8,648,717 B2	Feb. 11, 2014	Wesby-van Swaay	340/539.12

<b>U.S. PATENT PUBLICATION DOCUMENTS</b>					
<b>Examiner Initials</b>	<b>Reference Number</b>	<b>Document Number</b>	<b>Publication Date</b>	<b>Inventor</b>	<b>Class/Subclass</b>
	<b>DS</b>	US 2001/0001234 A1	May 17, 2001	Addy et al.	340/531
	<b>DT</b>	US 2002/0046353 A1	Apr. 18, 2002	Kishimoto	713/202
	<b>DU</b>	US 2002/0080938 A1	Jun. 27, 2002	Alexander, III et al.	379/106.01
	<b>DV</b>	US 2002/0198997 A1	Dec. 26, 2002	Linthicum et al.	709/227
	<b>DW</b>	US 2003/0176952 A1	Sep. 18, 2003	Collins et al.	700/286
	<b>DX</b>	US 2010/0035580 A1	Feb. 11, 2010	Wesby - Van Swaay	455/411
	<b>DY</b>	US 2012/0088474 A1	Apr. 12, 2012	Wesby-van Swaay	455/411

<b>FOREIGN PATENT DOCUMENTS</b>						
<b>Examiner Initials</b>	<b>Reference Number</b>	<b>Country Code</b>	<b>Document Number</b>	<b>Publication Date</b>	<b>Patentee or Applicant</b>	<b>Class/Subclass</b>
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 Conf. No.: 4281  
 Invention: PROGRAMMABLE COMMUNICATOR

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<b>OTHER DOCUMENTS</b>			
<b>Examiner Initials</b>	<b>Reference Number</b>	<b>Author</b>	<b>Title of Article, Title of Journal, Volume Number, Page Numbers, Date</b>
	<b>HT</b>		M2M Solutions LLC et al. v. SimCom Wireless Solutions Co., Ltd. et al., U.S.D.C. for the District of Delaware – Civil Action No. 12-030-RGA, <i>Defendants' Sur-Reply Brief on Claim Construction</i> , served July 26, 2013 (19 pages)
	<b>HU</b>		M2M Solutions LLC v. Sierra Wireless America, Inc. and Sierra Wireless, Inc. et al., U.S.D.C. for the District of Delaware – Civil Action No. 12-030-RGA, <i>Memorandum Opinion</i> , served on November 12, 2013 (20 pages)
	<b>HV</b>	Jonathan C. Lovely, Esq. Sunstein Kann Murphy & Timbers LLP	Track One Continuation Application – Serial No. 14/169,603, as filed January 31, 2014 (40 pages)
	<b>HW</b>	Jonathan C. Lovely, Esq. Sunstein Kann Murphy & Timbers LLP	Track One Continuation Application – Serial No. 14/175,171, as filed February 7, 2014 (41 pages)

Examiner Signature: _____ Date Considered: _____ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation <i>if not</i> in conformance and not considered. Include copy of this form with next communication to applicant.
--

**Section 4. Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted**

This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application Serial No. 13/934,763, filed July 3, 2013.

[X] This application also relies, under 35 U.S.C. section 120, on the earlier filing date of prior application Serial No. 13/801,773, filed March 13, 2013.

[X] This application also relies, under 35 U.S.C. section 120, on the earlier filing date of prior application Serial No. 13/328,095, filed December 16, 2011.

[X] This application also relies, under 35 U.S.C. section 120, on the earlier filing date of prior application Serial No. 12/538,603, filed August 10, 2009.

[X] This application also relies, under 35 U.S.C. section 120, on the earlier filing date of prior application Serial No. 11/329,212, filed January 10, 2006.

[X] This application also relies, under 35 U.S.C. section 120, on the earlier filing date of prior application Serial No. 10/296,571, filed, January 21, 2003.

The following references were submitted to, and/or cited by, the Office in the prior application(s) and, therefore, are not required to be provided in this application:

**Reference Nos.: AA - HU**

**Section 6. Copies of Listed Information Items Accompanying This Statement**

Legible copies of all items listed in Forms PTO/SB/08A and 08B (substitute for Form PTO-1449) accompany this information statement.

Exception(s) to above:

**U.S. patent citations are not included pursuant to the United States Patent and Trademark Office's September 21, 2004 waiver of the copy requirement in 37 CFR 1.98 for cited pending U.S. patent citations when the patent citations are available in the USPTO's IFW system.**

Items in prior application, from which an earlier filing date is claimed for this application, as identified in Section 4.

Cumulative patents or publications identified in Section 5.

**Section 8. Translation(s) of Non-English Language Documents**

Submitted herewith is an English translation of the following foreign language patents, publications or information or of those portions of those patents, publications or information considered to be material:

Reference **EA** is believed to be the English abstract of Reference **DZ**;  
Reference **EE** is believed to be the English abstract of Reference **ED**;  
Reference **EG** is believed to be the English abstract of Reference **EF**;  
Reference **EI** is believed to be the English abstract of Reference **EH**;  
Reference **EL** is believed to be the English abstract of Reference **EK**;  
Reference **EN** is believed to be the English abstract of Reference **EM**;  
Reference **EX** is believed to be the English abstract of Reference **EW**;  
Reference **EZ** is believed to be the English abstract of Reference **EY**;  
Reference **FB** is believed to be the English abstract of Reference **FA**;  
Reference **FG** is believed to be the English abstract of Reference **FF**;  
Reference **FI** is believed to be the English abstract of Reference **FH**; and  
Reference **FK** is believed to be the English abstract of Reference **FJ**.



**Section 10. Identification of Person Making This Information Disclosure Statement**

The person making this certification is the practitioner of record.

Dated: March 21, 2014

/Jonathan C. Lovely, #60,821/

**SIGNATURE OF PRACTITIONER**

Reg. No. 60,821

Jonathan C. Lovely

*(type or print name of practitioner)*

Tel. No.: (617) 443-9292

Sunstein Kann Murphy & Timbers LLP  
125 Summer Street, 11<sup>th</sup> Floor

Firm/Street Address

Customer No.: 002101

Boston, MA 02110-1618

City/State/Zip Code

03781/01015 2057029.1

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)**

(For Application filed on or after September 16, 2012)

Title of Invention: Programmable Communicator

This declaration is directed to:

- The attached application, or
- United States application or PCT international application number 14/159,849 filed on January 21, 2014 as amended on \_\_\_\_\_ (if applicable).

The application was made or was authorized to be made by me.

I have reviewed and understand the contents of the above-identified application.

I believe myself to be the original inventor or an original joint inventor of a claimed invention in the application.

I acknowledge the duty to disclose to the US Patent and Trademark Office all information known to me to be material to patentability.

I hereby acknowledge that any willful false statement made in this Declaration is punishable under 18 U.S.C. § 1001, by fine or imprisonment of not more than five years, or both.

**WARNING:**

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

**LEGAL NAME OF INVENTOR**

Inventor: Eveline Wesby-van Swaay

Date: 25<sup>th</sup> January 2014

Signature: 

03781/01015 2035467.1

# GENERAL POWER OF ATTORNEY

I/we hereby appoint the practitioners associated with the Customer Number: **02101**

with the firm: **SUNSTEIN KANN MURPHY & TIMBERS LLP**  
125 Summer Street  
Boston, MA 02110-1618  
United States

As attorneys to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications where the assignee is named as an applicant or where the applications are assigned to the undersigned according to the USPTO assignment records or assignment documents, in which case the details will be listed on an attached form in accordance with 37 CFR 3.73(c).

Address all correspondence to: **Customer Number: 02101**

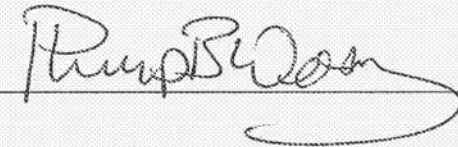
Direct all telephone calls to: 617-443-9292  
Facsimiles to: 617-443-0004

(a) Full name and registered address of Assignee

M2M Solutions LLC  
I/We, Assignee  
(a) Camden House, School Lane, Tiddington, Stratford-upon-Avon CV37 7AJ United Kingdom  
Address

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

(b) Signature of Assignee

Dated this 25<sup>th</sup> day of January 2014  
(b) 

(c) Signatory's name

By (c) PHILIP B. WESBY

(d) Signatory's Title

(d) Title: C.E.O.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/159,849	01/21/2014	Eveline Wesby-van Swaay	3781/1015

**CONFIRMATION NO. 4281**

2101  
Sunstein Kann Murphy & Timbers LLP  
125 SUMMER STREET  
BOSTON, MA 02110-1618

**NOTICE**



Date Mailed: 02/06/2014

**INFORMATIONAL NOTICE TO APPLICANT**

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):  
Eveline Wesby-van Swaay

**PATENT APPLICATION FEE DETERMINATION RECORD**

Substitute for Form PTO-875

Application or Docket Number  
14/159,849

**APPLICATION AS FILED - PART I**

	(Column 1)	(Column 2)
FOR	NUMBER FILED	NUMBER EXTRA
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A
TOTAL CLAIMS (37 CFR 1.16(i))	20	minus 20 = *
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1	minus 3 = *
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).	
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))		

SMALL ENTITY	
RATE(\$)	FEE(\$)
N/A	70
N/A	300
N/A	360
x 40 =	0.00
x 210 =	0.00
	0.00
	0.00
<b>TOTAL</b>	<b>730</b>

OTHER THAN SMALL ENTITY	
RATE(\$)	FEE(\$)
N/A	
N/A	
N/A	
<b>TOTAL</b>	

\* If the difference in column 1 is less than zero, enter "0" in column 2.

**APPLICATION AS AMENDED - PART II**

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total (37 CFR 1.16(i))	*	Minus **	=
Independent (37 CFR 1.16(h))	*	Minus ***	=
Application Size Fee (37 CFR 1.16(s))			
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))			

SMALL ENTITY	
RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
<b>TOTAL ADD'L FEE</b>	

OTHER THAN SMALL ENTITY	
RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
<b>TOTAL ADD'L FEE</b>	

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total (37 CFR 1.16(i))	*	Minus **	=
Independent (37 CFR 1.16(h))	*	Minus ***	=
Application Size Fee (37 CFR 1.16(s))			
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))			

SMALL ENTITY	
RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
<b>TOTAL ADD'L FEE</b>	

OTHER THAN SMALL ENTITY	
RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
<b>TOTAL ADD'L FEE</b>	

\* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

\*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.



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Table with 7 columns: APPLICATION NUMBER, FILING or 371(c) DATE, GRP ART UNIT, FIL FEE REC'D, ATTY,DOCKET,NO, TOT CLAIMS, IND CLAIMS. Row 1: 14/159,849, 01/21/2014, 2642, 800, 3781/1015, 20, 1

CONFIRMATION NO. 4281

2101
Sunstein Kann Murphy & Timbers LLP
125 SUMMER STREET
BOSTON, MA 02110-1618

FILING RECEIPT



Date Mailed: 02/06/2014

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections

Inventor(s)

Eveline Wesby-van Swaay, Stratford-upon-Avon, UNITED KINGDOM;

Applicant(s)

M2M Solutions LLC, Stratford-upon-Avon, UNITED KINGDOM

Assignment For Published Patent Application

M2M Solutions LLC, Stratford-upon-Avon, UNITED KINGDOM

Power of Attorney: The patent practitioners associated with Customer Number 02101

Domestic Priority data as claimed by applicant

This application is a CON of 13/934,763 07/03/2013 PAT 8648717
which is a CON of 13/801,773 03/13/2013 PAT 8542111
which is a CON of 13/328,095 12/16/2011 PAT 8633802
which is a CON of 12/538,603 08/10/2009 PAT 8094010
which is a CON of 11/329,212 01/10/2006 PAT 7583197
which is a CON of 10/296,571 01/21/2003 ABN
which is a 371 of PCT/EP01/05738 05/18/2001

Foreign Applications (You may be eligible to benefit from the Patent Prosecution Highway program at the USPTO. Please see http://www.uspto.gov for more information.)

FINLAND 20001239 05/23/2000 No Access Code Provided

Permission to Access - A proper Authorization to Permit Access to Application by Participating Offices (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 02/03/2014

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/159,849**

**Projected Publication Date:** 05/15/2014

**Non-Publication Request:** No

**Early Publication Request:** No

**\*\* SMALL ENTITY \*\***

**Title**

Programmable Communicator

**Preliminary Class**

455

**Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications:** No

## **PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES**

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

**LICENSE FOR FOREIGN FILING UNDER**  
**Title 35, United States Code, Section 184**  
**Title 37, Code of Federal Regulations, 5.11 & 5.15**

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The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

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The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.





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Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/159,849	01/21/2014	Eveline Wesby-van Swaay	3781/1015

**CONFIRMATION NO. 4281**

**POA ACCEPTANCE LETTER**

2101  
Sunstein Kann Murphy & Timbers LLP  
125 SUMMER STREET  
BOSTON, MA 02110-1618



Date Mailed: 02/06/2014

**NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY**

This is in response to the Power of Attorney filed 01/21/2014.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/ewondimu/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

# GENERAL POWER OF ATTORNEY

I/we hereby appoint the practitioners associated with the Customer Number: 02101

with the firm: SUNSTEIN KANN MURPHY & TIMBERS LLP  
125 Summer Street  
Boston, MA 02110-1618  
United States

As attorneys to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications where the assignee is named as an applicant or where the applications are assigned to the undersigned according to the USPTO assignment records or assignment documents, in which case the details will be listed on an attached form in accordance with 37 CFR 3.73(c).

Address all correspondence to: Customer Number: 02101

Direct all telephone calls to: 617-443-9292  
Facsimiles to: 617-443-0004

(a) Full name and registered address of Assignee

I/We, M2M Solutions LLC  
(a) Assignee  
Camden House, School Lane, Tiddington, Stratford-Upon-Avon  
United Kingdom CV37 7AJ  
Address

(b) Signature of Assignee

Dated this 5<sup>th</sup> day of February 2013

(b) Philip B. Wesby

(c) Signatory's name

By (c) PHILIP B. WESBY

(d) Signatory's Title

(d) Title: C.E.O.

## Electronic Patent Application Fee Transmittal

<b>Application Number:</b>				
<b>Filing Date:</b>				
<b>Title of Invention:</b>	Programmable Communicator			
<b>First Named Inventor/Applicant Name:</b>	Eveline Wesby-van Swaay			
<b>Filer:</b>	Jonathan Lovely			
<b>Attorney Docket Number:</b>	3781/1015			
Filed as Small Entity				
<b>Utility under 35 USC 111(a) Filing Fees</b>				
<b>Description</b>	<b>Fee Code</b>	<b>Quantity</b>	<b>Amount</b>	<b>Sub-Total in USD(\$)</b>
<b>Basic Filing:</b>				
Utility filing Fee (Electronic filing)	4011	1	70	70
Utility Search Fee	2111	1	300	300
Utility Examination Fee	2311	1	360	360
<b>Pages:</b>				
<b>Claims:</b>				
<b>Miscellaneous-Filing:</b>				
Late Filing Fee for Oath or Declaration	2051	1	70	70
<b>Petition:</b>				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
<b>Patent-Appeals-and-Interference:</b>				
<b>Post-Allowance-and-Post-Issuance:</b>				
<b>Extension-of-Time:</b>				
<b>Miscellaneous:</b>				
<b>Total in USD (\$)</b>				<b>800</b>

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	17964725
<b>Application Number:</b>	14159849
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	4281
<b>Title of Invention:</b>	Programmable Communicator
<b>First Named Inventor/Applicant Name:</b>	Eveline Wesby-van Swaay
<b>Customer Number:</b>	2101
<b>Filer:</b>	Jonathan Lovely
<b>Filer Authorized By:</b>	
<b>Attorney Docket Number:</b>	3781/1015
<b>Receipt Date:</b>	21-JAN-2014
<b>Filing Date:</b>	
<b>Time Stamp:</b>	14:44:54
<b>Application Type:</b>	Utility under 35 USC 111(a)

### Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$800
RAM confirmation Number	951
Deposit Account	194972
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

**File Listing:**

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	klw3781_1015_ADS.pdf	1561937 5dc93c2741613f0be2b998078166bdb054450100	no	7

**Warnings:**

**Information:**

2		klw3781_1015_ConAppl.pdf	128381 0d0a4e1fa7b8679a062c53f39e82827b4d77a86d	yes	25
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**Multipart Description/PDF files in .zip description**

Document Description	Start	End
Specification	1	20
Claims	21	24
Abstract	25	25

**Warnings:**

**Information:**

3	Drawings-only black and white line drawings	klw3781_1015_Formals.pdf	18869 c71ffc76f94fe296f33a7d1dcd2b249429223059	no	3
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**Warnings:**

**Information:**

4	Power of Attorney	3781_GenPOA.pdf	162088 8f288f19c3c6140aaa7380209aa4a2d230bec55	no	1
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**Warnings:**

**Information:**

5	Fee Worksheet (SB06)	fee-info.pdf	36219 d465bac3eae0ea7a384a0e23ad7913fe91b976c	no	2
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**Warnings:**

**Information:**

<b>Total Files Size (in bytes):</b>			1907494		
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**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	3781/1015
		Application Number	
Title of Invention	Programmable Communicator		
<p>The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.</p>			

**Secrecy Order 37 CFR 5.2**

<input type="checkbox"/>	Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)
--------------------------	---

**Inventor Information:**

Inventor 1					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Eveline		Wesby-van Swaay		
Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
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City	Stratford-upon-Avon	State/Province			
Postal Code	CB37 7AJ	Country i	GB		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the <b>Add</b> button.					Add

**Correspondence Information:**

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).			
<input type="checkbox"/> An Address is being provided for the correspondence information of this application.			
Customer Number	02101		
Email Address	usptomail@sunsteinlaw.com	Add Email	Remove Email

**Application Information:**

Title of the Invention	Programmable Communicator		
Attorney Docket Number	3781/1015	Small Entity Status Claimed	<input checked="" type="checkbox"/>
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	3	Suggested Figure for Publication (if any)	



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<b>Application Data Sheet 37 CFR 1.76</b>	Attorney Docket Number	3781/1015
	Application Number	
Title of Invention	Programmable Communicator	

**Filing By Reference :**

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

**Publication Information:**

Request Early Publication (Fee required at time of Request 37 CFR 1.219)

**Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

**Representative Information:**

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	<input checked="" type="radio"/> Customer Number	<input type="radio"/> US Patent Practitioner	<input type="radio"/> Limited Recognition (37 CFR 11.9)
Customer Number	02101		

**Domestic Benefit/National Stage Information:**

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the application number blank.

Prior Application Status	Pending	<a href="#">Remove</a>			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
	Continuation of	13/934763	2013-07-03		
Prior Application Status	Patented	<a href="#">Remove</a>			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13/934763	Continuation of	13/801773	2013-03-13	8542111	2013-09-24

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<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	3781/1015		
		Application Number			
Title of Invention	Programmable Communicator				
Prior Application Status	Patented			<input type="button" value="Remove"/>	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13/801773	Continuation of	13/328095	2011-12-16	8633802	2014-01-21
Prior Application Status	Patented			<input type="button" value="Remove"/>	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13/328095	Continuation of	12/538603	2009-08-10	8094010	2012-01-10
Prior Application Status	Patented			<input type="button" value="Remove"/>	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12/538603	Continuation of	11/329212	2006-01-10	7583197	2009-09-01
Prior Application Status	Abandoned			<input type="button" value="Remove"/>	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
11/329212	Continuation of	10/296571	2003-01-21		
Prior Application Status	Expired			<input type="button" value="Remove"/>	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
10/296571	a 371 of international	PCT/EP01/05738	2001-05-18		
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the <b>Add</b> button.					<input type="button" value="Add"/>

### Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

<input type="button" value="Remove"/>			
Application Number	Country <sup>i</sup>	Filing Date (YYYY-MM-DD)	Access Code <sup>i</sup> (if applicable)
20001239	FI	2000-05-23	
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<b>Application Data Sheet 37 CFR 1.76</b>	Attorney Docket Number	3781/1015
	Application Number	
Title of Invention	Programmable Communicator	

## Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

<p>This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.</p> <p><input type="checkbox"/> NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.</p>
--

## Authorization to Permit Access:

<p><input checked="" type="checkbox"/> Authorization to Permit Access to the Instant Application by the Participating Offices</p>
<p>If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.</p> <p>In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.</p> <p>In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.</p>

## Applicant Information:

<p>Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.</p>
--

<b>Application Data Sheet 37 CFR 1.76</b>	Attorney Docket Number	3781/1015
	Application Number	
Title of Invention	Programmable Communicator	

<b>Applicant 1</b>		<input type="button" value="Remove"/>	
<p>If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.</p>			
<input type="button" value="Clear"/>			
<input checked="" type="radio"/> Assignee	<input type="radio"/> Legal Representative under 35 U.S.C. 117	<input type="radio"/> Joint Inventor	
<input type="radio"/> Person to whom the inventor is obligated to assign.		<input type="radio"/> Person who shows sufficient proprietary interest	
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor : <input type="text"/>			
If the Applicant is an Organization check here. <input checked="" type="checkbox"/>			
Organization Name	M2M Solutions LLC		
<b>Mailing Address Information:</b>			
Address 1	Camden House		
Address 2	School Lane, Tiddington		
City	Stratford-upon-Avon	State/Province	
Country <sup>i</sup>	GB	Postal Code	CV37 7AJ
Phone Number		Fax Number	
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button.			<input type="button" value="Add"/>

## Assignee Information including Non-Applicant Assignee Information:

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<b>Assignee 1</b>	
<p>Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.</p>	
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If the Assignee or Non-Applicant Assignee is an Organization check here. <input type="checkbox"/>	

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<b>Application Data Sheet 37 CFR 1.76</b>		Attorney Docket Number	3781/1015
		Application Number	
Title of Invention	Programmable Communicator		

Prefix	Given Name	Middle Name	Family Name	Suffix

**Mailing Address Information For Assignee including Non-Applicant Assignee:**

Address 1				
Address 2				
City		State/Province		
Country i		Postal Code		
Phone Number		Fax Number		
Email Address				

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

**Signature:**


NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications

<b>Signature</b>	/Jonathan C. Lovely, #60,821/		Date (YYYY-MM-DD)	2014-01-21	
First Name	Jonathan	Last Name	Lovely	Registration Number	60821

Additional Signature may be generated within this form by selecting the Add button.

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Attorney Docket: 3781/1015

**Programmable Communicator****Priority**

5 This patent application is a continuation of and claims priority from all priority dates of U.S. patent application serial number 13/934,763, filed July 3, 2013, and entitled “**Programmable Communicator**” (attorney docket number 3781/1014). U.S. patent application serial number 13/934,763 is a continuation of and claims priority to U.S. patent application serial number 13/801,773, filed March 13, 2013, now U.S. Patent No. 8,542,111, and entitled “**Programmable Communicator**” (attorney docket number 3781/1010), which is a continuation of and claims priority to U.S. patent application serial number 13/328,095, filed December 16, 2011, now U.S. Patent No. 8,633,802, and entitled “**Programmable Communicator**” (attorney docket number 3781/1007), which is a continuation of and claims priority to U.S. patent application serial number 12/538,603, filed August 10, 2009, now U.S. Patent No. 8,094,010, and entitled “**Programmable Communicator**” (attorney docket number 3781/1006), which is a continuation of and claims priority to U.S. patent application serial number 11/329,212, filed January 10, 2006, now U.S. Patent No. 7,583,197, and entitled “**Programmable Communicator**” (attorney docket number 3781/1002), which is a continuation of and claims priority to U.S. Patent Application 10/296,571, filed January 21, 2003, and entitled “**Programmable Communicator**,” which, in turn, is a National Phase filing of and claims priority to PCT/EP01/05738 filed on May 18, 2001, which further claims priority from Finland Application 20001239, filed May 23, 2000. The disclosures of each of these applications are incorporated herein by reference in their entirety.

25

**Background of the Invention**

The invention relates to a programmable wireless communications apparatus. More particularly, it relates to a programmable wireless communications apparatus, which can provide an improved means of communication between children and their parents, between elderly persons and caring relatives, and between mentally less-able individuals and supervising adults. In addition, the invention provides a solution for smart clothes

applications, which may comprise a telecommunications means within the lining of a jacket or other article of clothing, as well as a solution for user-programmable data tags which convey information from remotely located devices such as vending machines. The invention relates to and significantly improves upon a previously filed patent application claiming  
5 Finnish priority of Sep. 9, 1997 entitled a Portable Hotlink Communicator published as international patent application PCT/GB98/02715.

In this previously filed application, is taught the invention of using a mobile phone comprising a programmable identity module such as a SIM card, in the context of the GSM  
10 telecommunications standard, to program the number of any mobile or fixed telephone to which the Hotlink communicator, comprising a similar type of programmable identity module, is to be linked. Existing and known methods of communication between the mobile phone and Hotlink communicator for the purpose of programming comprise the obvious choice of data calls such as the Short Message Service in the GSM telecommunications  
15 standard. Alternatively a PDA type communicator might call up a web page to instruct a network element to program the programmable identity module of the Hotlink with the number of any fixed or mobile telephone to which the Hotlink communicator is to be linked.

This use of a separate mobile phone to program the number to which the Hotlink may call is  
20 particularly useful and convenient should a parent wish to change the number if the parent must leave shortly and want that the Hotlink is connected immediately to the mobile phone or fixed line of another parent or supervising neighbour.

The current invention builds upon the teaching of this earlier application and extends the  
25 concept significantly that it has more general and suitable application to both the child Hotlink communicator and also to the field of programmable wireless data communication tags for the purpose of providing information about the status of a vending machine or other piece of technical equipment such as a home appliance or a device to monitor whether a door is open or closed.

30

In addition to this, the current invention relates directly to programmable wireless data



communication tags, which comprise the means to be interfaced directly with other technical equipment such that each tag can be programmed remotely by any means to be linked to any fixed or mobile telephone to enable data to be sent to or from the device and to allow a person to make a voice call connection to the linked telephone.

5

Today parents are concerned whether to provide a young child with a mobile phone or not. The concern relates to the cost of the mobile phone should it be lost or stolen and also to the cost of the use of the mobile phone. Clearly there is a need to provide a means to limit the cost of calling and also to provide a means to prevent the child dialling overseas numbers for extensive periods of time.

10

In the context of mobile phone operators, there exists a need to provide a simple and effective communication device, which can provide the means for family tariffing such that subscriptions for children can be related to the subscriptions of their parents' mobile phones.

15

An improved child Hotlink communicator, which restricts the usage of the mobile phone and thereby does not generate high charges through uncontrolled calling, is clearly a solution to the family tariffing challenge.

Parents are often concerned about the whereabouts of their children and new positioning technologies are being developed for locating mobile phones. These solutions include self-positioning solutions and remote positioning solutions. One example of a self-positioning solution includes the satellite-based Global Positioning System technology in which the mobile phone comprising a GPS signal processing circuit is able to determine the coordinates of its own position by processing signals received from satellites and communicate these coordinates to a location centre associated with the network. One example of a remote positioning solution is the method taught in U.S. Pat. No. 5,051,741 claiming priority of Mar. 27, 1990 in which the mobile phone is paged and caused to transmit a response which is processed by communication stations such as time-of-arrival measurement units associated with the network of master stations or base stations.

25

30

This remote positioning method has the advantage that the position of the mobile phone can

be determined by making use of existing signalling between the mobile phone and the network without requiring any changes to the mobile phone, which would increase its cost. The generic network-based, remote-positioning architecture method of U.S. Pat. No. 5,051,741 may make use of time of arrival methods or phase difference calculations to  
5 increase the resolution of the area or sector within which the mobile phone is located.

While the location of the mobile phone itself is a good indication of the present location of the person carrying the mobile phone, an improvement would be a means to lock the mobile phone to the child, such that use of the mobile phone positioning technologies would then  
10 determine the position of the child.

In addition to these concerns about the failures of existing mobile communications technology to provide an improved and more secure method of instant communication between a parent and a young child, and the means to determine the position of the child,  
15 there is additional concern that the battery of the communicator may drain its power without the parent knowing, or may be removed, which would prevent the communicator from receiving calls or dialling to the programmed fixed or mobile number to which the communicator is linked.

20 In addition to these specific communication problem needs, there is a growing yet unsubstantiated concern about the potentially harmful effect of electromagnetic radiation from mobile phones upon the developing brains of young children. Within this context, there is an opportunity to design a communication device for children, which positions the radiating electromagnetic field of a communication device away from the close proximity of  
25 the brain. In this regard, parents who maintain the belief that mobile telephones present a health risk due to the radiating antenna may rest secure in the knowledge that this risk can be significantly reduced.

In a separate context, there exists a growing need for a mobile telephone solution, which is  
30 cost effective to manufacture, but which is versatile such that it can form the basis for a smart clothes tag or communications application platform. In this context the requirement is for an

embedded mobile phone platform comprising no keypad or display, which may be sewn into the lining of a jacket, or other article of clothing, having only the call button protruding and a simple pin connection to recharge the battery. The problem with prior art solutions is that unless the smart clothes tag can be user-programmable to call any fixed or mobile number by making use of an acceptable method such as via an SMS data call or via a BlueTooth radio transmission from a mobile phone or intelligent PDA, the solution is impractical to implement.

In security applications where emergency service personnel carry hand-held primary communications devices such as conventional mobile phones, a back-up communications device such as a smart clothes embedded tag can be of great value in the instance that the primary communications device is lost or broken.

In sports areas such as on lakes where there may be people using canoes, a smart clothes communications tag embedded in a life vest may serve to alert a central control point that a person is in difficulty and also to alert other persons in the area to go to their rescue.

In an additional application area, skiers in difficulty would benefit from a smart clothes user-programmable communications tag attached to their clothing, which is pre-programmed to be linked with a fixed or mobile telephone and need only have its protruding button pressed to make communication with a central alarm point.

In an additional application area there exists the need for a user-programmable remote wireless communications data tag, which can be used to relay information about the status of a remote piece of technical equipment such as a vending machine. Home networks could be simplified by making use of the existing mobile network infrastructure to relay data about the status of a home appliance or to indicate whether a door is open or closed. Packet switched technologies such as GPRS may be used as the radio access technology to communicate the status of the technical equipment.

30

In an additional application area there exists the need for a versatile communications

platform, which can be combined with remote health monitoring technology to assist doctors with remote diagnosis of patients.

In an additional application there is the need for a versatile communications which is able to work effectively when the network is temporarily overloaded such that it has the means to store a sound message as a sound byte or convert it using voice recognition software such that it can be forwarded as soon as the network capacity becomes less loaded.

Further to these limitations of existing technologies, and so far as is known, no portable communication apparatus is presently available which serves to offer an improved programmable communicator which is directed towards the specific needs of this problem area as outlined.

### **Objects of the Invention**

Accordingly, it is an object of the present invention to provide an improved programmable communications apparatus, which can be remotely programmed by any mobile phone or IP device such that it can be linked to any particular fixed or mobile phone or IP device.

It is a further object of the present invention to provide a programmable communications apparatus, which may be programmed at close range using infrared light or a BlueTooth radio connection, or via a terminal-to-terminal network based data call such as the GSM SMS short message service or via a GPRS packet data communication.

It is a further object of the present invention to provide a programmable communications apparatus, which may be programmed by a mobile or fixed device which is able to call up an Internet web page and which comprises the means to instruct the network to reprogram the communications apparatus with the mobile or fixed number to which the programmable communications device is to be linked.

It is a further object of the present invention to provide a programmable communications apparatus, which may be programmed via the Internet such that the network communicates

with a device in the vicinity of the programmable communications apparatus which itself causes the said apparatus to be programmed using any means such as wireless communication, infrared light or a BlueTooth radio link.

5 It is a further object of the present invention to provide a plurality of programmable communications apparatuses, which may be simultaneously programmed by a mobile or fixed device which is able to call up an Internet web page and select one or more apparatuses of the said plurality and cause each of the selected number of apparatuses to be linked to the identical mobile or fixed telephone.

10

It is a further object of the present invention to provide a programmable communications apparatus, which comprises a processing means to process coded transmissions and permit only transmissions comprising a coded number, which determines the authenticity of the message, to be allowed to program the number to which the said apparatus be linked.

15

It is a further object of the present invention to provide a programmable communications apparatus, which comprises a wrist strap, or an attachment such as in the case of the smart clothes application, and a first alarm means which can be programmed such that it can cause a message to be sent to the fixed or mobile number to which the said apparatus is linked in  
20 the case that the wrist strap be broken or undone or in the case that the said attachment be broken or displaced from an initial position of equilibrium.

20

It is a further object of the present invention to provide a programmable communications apparatus, which may have a separate pressure sensitive means or displaceable means which  
25 becomes activated in the pressed position or displaced position respectively such that it is able to generate an alarm or data message when pressure is removed or when the displacement returns to the non-displaced position. Such a feature serves, by way of example, to replace the need for the wrist strap feature of the previous object such that when the wrist worn communicator is removed from the wrist the pressure sensitive means or  
30 displaceable means can provide the required alarm message.

30

It is a further object of the present invention to provide a programmable communications apparatus, which comprises a heat sensor, which can detect that the communicator is adjacent to a heat source such as the skin of a child and the means to generate an alarm message if the heat source is removed.

5

It is a further object of the present invention to provide a programmable communications apparatus, which has the means to detect any other detectable physical characteristic of the human skin, which may be used to trigger an alarm if the means is moved away from the skin.

10

It is a further object of the present invention to provide a programmable communications apparatus for a security application, which comprises an infrared heat detector and which is able to generate an alarm message if a change in the level of infrared radiation is detected.

15

It is a further object of the present invention to provide a programmable communications apparatus, which may form part of a home network of devices, which is used to monitor a domestic appliance such as a washing machine or a device to monitor whether a door or window is open or closed and to react to a change in status of said appliance or device by sending an alarm message or data message to a linked fixed or mobile telephone or internet

20

IP address to indicate a current status of said appliance or device. In addition the said apparatus may be incorporated in a bicycle frame or attached to a bicycle for monitoring movement of the bicycle.

25

It is a further object of the present invention to provide a programmable communications apparatus, which has a memory means to store sound as a sound byte for a certain period of time such as the voice of the child wearing the programmable communicator and the means to send this sound to the telephone number to which the said apparatus is linked.

30

It is a further object of the present invention to provide a programmable communications apparatus, which has a means to store and transmit a sound byte in response to receiving a sound above a predetermined threshold such that a person who is in distress may shout out

and the distress call is processed by the programmable communicator and forwarded to the fixed or mobile telephone or IP address to which the said communicator is linked.

5 It is a further object of the present invention to provide a programmable communications apparatus, which is able to make a call to a linked fixed or mobile telephone or IP address and which if it detects that the telephone number is engaged or does not answer or that the IP address is invalid, the said apparatus has the means to select any other telephone number or IP address in the permitted callers list such that it can be connected to said other telephone or IP device.

10

It is a further object of the present invention to provide a programmable communications apparatus, which is able to store a sound byte or store a data record and send the sound byte or data record to any other telephone number or IP address in the permitted callers list after a certain interval of time in the instance that the primary number or IP address is engaged or  
15 connection is not able to be made at that time due to the network capacity not being sufficient at that time. The feature may also include a continuous retry feature such that the attempt to send the sound byte or data record is continued until the sound byte or data record is successfully sent.

20 It is a further object of the present invention to provide a programmable communications apparatus, which has the means to convert a voice message into text and send this as a data message to a fixed or mobile telephone or IP address to which the said apparatus is linked.

25 It is a further object of the present invention to provide a programmable communications apparatus, which is able to receive data from a plurality of data monitoring devices, which may be connected by any wired or wireless means, and that each of said devices has an associated status condition, such that the programmable communications apparatus can transmit data from said devices on request or periodically to a fixed or mobile telephone or IP address to which the said apparatus is linked.

30

It is a further object of the present invention to provide a programmable communications

apparatus, in which the said first alarm means may communicate directly with a central communications point in the network.

5 It is a further object of the present invention to provide a programmable communications apparatus, in which the said first alarm means may communicate directly with a web page and write information to that page or cause an E-mail to be sent to a specific address.

10 It is a further object of the present invention to provide a programmable communications apparatus, which comprises a second alarm means, which can be programmed to cause a message to be sent to the fixed or mobile number to which the said apparatus is linked in the case that the battery is low in power or in the case that the battery is removed or in the case that the communicator be switched off.

15 It is a further object of the present invention to provide a programmable communications apparatus, which comprises a second alarm means, which can be programmed to send a message periodically comprising any status message such as the current power status of the battery.

20 It is a further object of the present invention to provide a programmable communications apparatus, which comprises a battery charger adapter-pin such that the apparatus can make use of suitable battery chargers of other mobile phones.

25 It is a further object of the present invention to provide a programmable communications apparatus, which comprises the means to be interrogated remotely by another fixed or mobile telephone or network connected device, such that different codes are used to obtain different data from the said apparatus. In the context of remote health monitoring, by way of example, a doctor could send different codes from her mobile terminal and obtain different data on blood pressure and the heart rate of the person wearing the apparatus associated with a health monitoring system. The said apparatus may make use of physical monitoring means  
30 associated with said apparatus for providing information about the skin temperature and blood pressure and other characteristics of the human body.



It is a further object of the present invention to provide a programmable communications apparatus, which has application to smart clothes such that it provides a secondary communications means for emergency service personnel.

5

It is a further object of the present invention to provide a programmable communications apparatus, which is suitable for attachment to a life vest. A further object of this application includes a water-enabled communications apparatus, which may be used to communicate with a portable central communications unit.

10

It is a further object of the present invention to provide a programmable communications apparatus, which comprises a GPS signal processing circuit and the means to respond to an authenticated request to determine its own position and send data relating to its position to the linked fixed or mobile telephone or to a location determination centre or to a specified web page.

15

It is a further object of the present invention to provide a programmable communications apparatus, which may be securely attached to a device such as a bicycle, which may be used for communication and for determining the position of the bicycle.

20

It is a further object of the present invention to provide a programmable communications apparatus, which is suitable for young children such that it comprises an auto-answer facility to connect the caller immediately with an associated microphone and loudspeaker to avoid the need that the child must press a button to answer the call. This application also includes the feature, which returns the programmable communicator automatically to idle state as soon as the caller to the child terminates the call remotely. This avoids the need that the child must terminate the call. It also prevents the child from terminating the call by accident.

25

It is a further object of the present invention to provide a programmable communications apparatus, which can be used with mobile location based services such that it is possible for an authenticated person to access a web page, either on a hand-held terminal or fixed device,

30

which shows the position of the programmable communications apparatus as an icon on a map after its position has been determined by its own GPS signal processing circuitry or remotely by the network.

- 5 Other objects and advantages of this invention will become apparent from the description to follow when read in conjunction with the accompanying drawings.

### **Summary of the Invention**

Certain of the foregoing and related objects are readily-attained according to the present invention by the provision of a novel portable programmable communicator, which serves to  
10 address the diverse communication requirements of children and elderly persons and for the purposes of remote data monitoring applications such as for monitoring the status of remote technical devices.

The programmable communicator preferably comprises a basic mobile telephone circuit  
15 having no keypad or display and a rechargeable battery and antenna and a basic two-way microphone device and remotely pre-programmable identity module linking it to a single mobile or fixed telephone. Where appropriate, in alternative embodiments, the programmable communicator comprises an alarm means to indicate certain conditions of the communicator such as the charge level of its battery or if the battery is removed. Similar  
20 alarm messages are generated according to the particular embodiment of the programmable communicator application which include the generation of messages when an associated wrist strap or attachment of the communicator in the case of a smart clothes application is undone or displaced or when the communicator is switched on or off or when the communicator is set to monitor the status condition of an associated device and the status  
25 changes beyond a preset threshold level. The invention also includes the generation of periodic messages to indicate that the communicator is working and that any associated status condition thresholds remain unchanged. This last set of messages, which includes periodic reassurances messages includes the facility that the user may set the duration of the period according to the application.

30

The programmable communicator has direct and effective application to home networks for the purpose of transmitting information about the status condition of domestic appliances such as the pressure of water pipes and whether a door or window is opened or closed. The wireless programmable communicator can be attached to an associated monitoring device and programmed with the number of a mobile or fixed telephone to which it is to be linked or to an Internet web page which can be made accessible to authenticated users or to security monitoring personnel.

Other objects and features of the present invention will become apparent from the following detailed description considered in connection with the accompanying drawings, which disclose one embodiment of the invention. It is to be understood, however, that the drawings are designed for the purpose of illustration only and that the particular description of the portable hot link communicating apparatus is given by way of example only and does not limit the scope of the invention.

**Brief Description of the Drawings**

The foregoing features of the invention will be more readily understood by reference to the following detailed description, taken with reference to the accompanying drawings, in which:

FIG. 1 illustrates the schematic of the programmable communicator according to one embodiment of the invention.

FIG. 2 illustrates a schema showing the actions performed by the programmable communicator in response to an incoming call or message according to the present invention.

FIG. 3 illustrates a schema showing actions done by the programmable communicator and the outgoing calls or messages, which are generated as a consequence of said actions.

**Description of a Preferred Embodiment**

Referring now in detail to the drawings and in particular FIG. 1 thereof, therein illustrated is a programmable communicating apparatus according to one embodiment of the present

invention.

The following description makes reference to the detailed features as outlined in the objects of the invention.

5

In FIG. 1 is shown a telephone circuit 10, which comprises an antenna 20 and a battery 30. To the telephone circuit, which may similarly comprise a communicating PDA device circuit, is shown an optional BlueTooth module 40 for communication with a nearby data communication or programming device having a similar BlueTooth radio module. The  
10 telephone circuit 10 has a ringing tone generator and an auto answer module 50 which may be used to cause the programmable communicator to generate one of a number of ringing tones or to auto answer upon receipt of an authenticated permitted caller.

For the purposes of programming the IP address or telephone number of the fixed or mobile  
15 telephone to which the communicator is linked is provided an SMS processing means 60. This communicates with an authentication means 90, which in turn is able to store numbers into a permitted callers list 110. For the purposes of security, a sound byte capture means and threshold detector means 100 is provided to generate an alarm message or to send a sound  
20 byte to one of the numbers on the permitted callers list. Additional voice recognition software may be used to convert the sound byte into text and send this to the destination telephone number or IP address.

An SMS alarm generation means 70 is provided to work together with a battery charge monitor 35 and a sensor means 80 and an alarm message list 120 and a programmable  
25 interface means 140 to generate alarm messages in response to changes in status conditions. Said programmable interface means may be attached to all manner of sensor devices for the purpose of relaying data from external devices and sensors either automatically or in response to a request for information from a remote device.

30 The periodic status report means 130 may be programmed to provide data on the current status of the programmable communicator as well as data from one or more devices, which

may be connected to the communicator via the BlueTooth module 40.

In the case that the programmable communicator is unable to make an immediate connection with the linked telephone or IP address, a reselection means 150 provides one or more  
5 connection numbers from the permitted callers list.

This device comprises a novel combination of existing technologies and features, which make possible the existence of a new and improved communicating apparatus to address the communication needs of children and elderly persons and for programmable data tags for  
10 monitoring the status of associated technical equipment.

The use of the programmable communicator involves two phases, a pre-programming phase and an active phase. In the pre-programming phase, the communicator is programmed with the number it can call which comprises a unique code. By way of example only, the  
15 invention is now described in the context of the GSM mobile telecommunications standard using the Short Message Service or SMS circuit-switched data call. The invention relates to all telephone standards including, and not limited to CDMA and US-TDMA, and is effectively used also in a packet switching mode such as the GSM GPRS packet switching mode. Furthermore the invention is suitably applicable to IP devices, which comprise IP  
20 addresses rather than telephone numbers.

According to the invention, it is wished to allow only authenticated callers to change the telephone number or IP address of a fixed or mobile telephone or network device to which the programmable communicator is to be linked. This may be done in GSM using an SMS  
25 message, which includes data as well as a unique code such as the unique code of the Subscriber Identity Module or SIM card, often referred to as the PUK code. The PUK code is a unique identifier, which is different for every SIM card. The choice of the PUK is made by way of example only and any similar unique coding may be used for the purpose of the invention  
30

It is a straightforward procedure to communicate with the programmable communicator by

SMS. The remote transmitting device includes the PUK code of the receiving programmable communicator in its SMS transmission as well as a telephone number to which the programmable communicator is to be linked.

- 5 The programmable communicator includes a processing means to determine that the PUK code is correct and the means to store the transmitted number. The PUK code may also be used to program the list of permitted callers. An SMS comprising the PUK code may contain a plurality of telephone numbers each of which designates a permitted caller's number. Only numbers, which are stored as designated permitted callers, will cause the programmable  
10 communicator to generate a ringing tone.

Alternatively, the programmable communicator may include circuitry to terminate the calls of non-permitted callers automatically. In the same way that the telephone number of an incoming call can be shown on the screen of a mobile phone before the phone is answered,  
15 this information may be used to enable the programmable communicator to receive the call or to reject it.

Additional codes may be used by authenticated callers to interrogate the status condition of the programmable communicator, or to interrogate the status of data monitoring devices to  
20 which the communicator is wired or wirelessly attached.

In this way, in the application for an improved child communicator, only persons knowing the secret PUK code would be able to change the calling number. This provides the essential security for the parents. Furthermore, the feature, which causes the communicator to reject  
25 all calls but those from telephone numbers on the permitted callers list serves to shield the child from unwelcome contact.

The following example demonstrates how five SMS messages might program the permitted callers list A-E

30

SMS 1. PUK code A:040 111 1111

SMS 2. PUK code B:040 222 2222

SMS 3. PUK code C:040 333 3333

SMS 4. PUK code D:040 444 4444

SMS 5. PUK code E:040 555 5555

5

The letters A to E in the five messages or any equivalent coding may be used to designate the priority of the telephone numbers of the permitted callers such that letter A designates the number to which the programmable communicator is linked at this moment.

- 10 In a simple use scenario, a child may be playing in the garden or near to the house wearing a programmable communicator programmed to the mother's telephone phone number, 040 111 1111. In the next moment, the father comes home and sends an SMS to the child's programmable communicator using his phone having telephone number 040 222 2222. In this example, the message comprises PUK code A:040 222 2222 which cause the calling  
15 number of the programmable communicator to be now reprogrammed to call the father's number if its call button is pressed by the child.

An additional security feature comprises software, which will cause an SMS emergency message to be sent automatically to the pre-programmed number if the wrist strap is broken  
20 or undone, or the communicator is switched off. An additional sensor may be used instead of a means to generate an SMS message if the wrist strap is broken or undone whereby said sensor can sense the heat of the skin, which will cause an SMS message to be sent if the communicator is moved away from the skin.

- 25 Additional software features may generate messages to indicate the charge of the battery or if the battery drains completely or is removed.

To avoid a total failure condition, the programmable communicator may comprise a separate back-up power supply in addition to the battery, which is sufficient to generate an alarm  
30 message or number of alarm messages, in the instance that a power connection is lost from an associated device or if its own battery supply drains completely.

In this way, the telephone number to which the programmable communicator is linked receives messages about the status of the battery and an indication of whether the communicator has been removed from the child.

5

In a separate embodiment, is included the feature that certain alarm messages are sent to one or more of the telephone numbers, or IP addresses in the IP network application of this invention, which are on the permitted callers list. This feature would enable at least one other person to receive an alarm message in case the primary linked telephone is busy or the associated user of the linked telephone is unable to read the message immediately.

10

The programmable communicator comprises a processing module, which can receive information about its wrist strap or associated attachment. In the embodiment of a smart clothes tag, the said associated attachment may comprise a fibre or wire, which, if mechanically pulled, causes the generation of an alarm message. Clearly, in the case of a wrist worn communicator, the opening or closing of the wrist strap may be used to activate an electronic circuit to generate a status condition of the wrist strap. It is anticipated that the receiver of the alarm message may then call the child directly, if possible, to check if there is a problem. Additionally, location based services may be used to locate the position of the communicator relative to the network infrastructure.

15  
20

In a separate embodiment, the programmable communicator comprises a feature, which enables a user to cause it to transmit a status message periodically, according to a periodic duration as set by the user, which will provide reassurance that the communicator is functioning correctly, and for example, that the wrist strap is closed, and that the battery has sufficient power.

25

The types of data that the communicator can provide periodically, or on request, are determined directly by the application of the invention according to different remote monitoring embodiments. In each application the programmable communicator has the appropriate means to receive the data from the monitoring device and the means to process

30



the data.

The programmable communicator has further direct application to the field of remote data monitoring such as in the home network environment. Today, domestic appliances such as washing machines and sauna heaters remain separate from one another and only a few have  
5 the capability to be integrated into remote monitoring applications.

The programmable communicator may be used to generate data messages, which describe the status or change in status beyond a threshold condition, of a household appliance and  
10 communicate this data directly to a linked telephone number or IP address of a linked device or Internet web page.

The use of GSM GPRS packet switching technology in this context is ideal since the application does not require a continuous circuit switched connection to the network. The  
15 remote monitoring application comprises the use of a programmable communicator, which reacts to a status condition and then initiates a packet data transmission to the network. Consequently, the programmable communicator comprises a separate back-up power supply in addition to the battery, which is sufficient to generate an alarm message or number of alarm messages, in the instance that a power connection is lost from an associated device or  
20 if its own battery supply drains completely.

In a separate home-network application, the programmable communicator may be used to gather data from a number of associated monitoring devices and to communicate this to the linked telephone or IP device or Internet web page. The monitoring devices may be directly  
25 linked to the programmable communicator by wire or wirelessly connected by, for example, the Bluetooth radio technology in which case the programmable communicator comprises the necessary additional Bluetooth communications module.

In a sports or safety application, the programmable communicator may comprise a smart  
30 clothes tag and be sewn into the lining of a life vest such that a person paddling a canoe may use it for urgent communication.

Other applications for the programmable communicator include theme parks and other sports events or places where children may become lost in the crowds.

5 In addition, the invention may be utilised as a voice and data communicator for bicycles. In this application, data from the bicycle such as speed could be used in sports training as a means to enhance the performance of a cyclist. In a more general application, a programmable communicator can be used to inform the owner of a bicycle that his parked bicycle is being moved and to determine its location, if needed, by making use of the  
10 location-based services functionality of the telecommunications network.

While only one embodiment of the present invention: the programmable communicator within the context of the digital GSM telephone system in particular, has been shown and described in detail, it will be obvious to those persons of ordinary skill in the art, that many  
15 changes and modifications may be made thereunto without departing from the spirit of the invention. For example, the hot link communicator may make use of any telephone technology such as CDMA, and US-TDMA. Moreover, the inventive features of the programmable communicator may be incorporated into a monitoring device and integrated with it such that the device comprises the capability of the programmable communicator. The  
20 invention is not limited to the application of the programmable communicator as a separate device, which separately communicates with data monitoring devices but also includes the application of the functionality of the invention as an integrated part of the monitoring device.

25 It is further to be understood that the invention may make use of all coding schemes for storing numbers to the programmable apparatus and the use of the PUK code was by way of example only. The programmable communicator may comprise the means to accept all manner of clip on covers so that the same base model may carry one of a number of different covers to suit the tastes and the age groups of different wearers.

30

What is claimed is:

1. A programmable communicator device comprising:

5 a wireless communications circuit for communicating through an antenna over a communications network;

a programmable interface for establishing a communication link with at least one monitored technical device, wherein the programmable interface is programmable by wireless packet switched data messages; and

10 a processing module for authenticating one or more wireless transmissions sent from a programming transmitter and received by the programmable communicator device by determining if at least one transmission contains a coded number;

15 wherein the programmable communicator device is configured to use a memory to store at least one telephone number or IP address included within at least one of the transmissions as a list of one or more linked numbers to which the programmable communicator device may send outgoing wireless transmissions if the processing module authenticates the at least one of the transmissions including the at least one telephone number or IP address and the coded number by determining that the at least one of the transmissions includes the coded number;

20 wherein the programmable communicator device is configured to use an identity module for storing a unique identifier that is unique to the programmable communicator device;

and wherein the one or more wireless transmissions from the programming transmitter comprises a General Packet Radio Service (GPRS) or other wireless packet switched data message;

25 and wherein the programmable communicator device is configured to process data received through the programmable interface from the at least one monitored technical device in response to programming instructions received in an incoming wireless packet switched data message.

30 2. A programmable communicator device according to claim 1, wherein the processing module is configured to process data received through the programmable interface from the

at least one monitored technical device in response to programming instructions received in an incoming wireless packet switched data message.

3. A programmable communicator device according to claim 1, wherein the programmable  
5 communicator device comprises the identity module.

4. A programmable communicator device according to claim 1 wherein the wireless  
communications circuit is configured to receive wireless transmissions compliant with  
Bluetooth wireless air interface standards.

10

5. A programmable communicator device according to claim 1 wherein each linked number  
comprises a corresponding stored telephone number or IP address stored into a permitted  
callers list to which the wireless communications circuit is restricted to send outgoing  
wireless transmissions in response to programming instructions received in an incoming  
15 wireless packet switched data message.

6. A programmable communicator device according to claim 1 further configured to request  
that an at least one monitored technical device send data through the programmable interface  
for processing by the programmable communicator device in response to programming  
20 instructions received in an incoming wireless packet switched data message.

7. A programmable communicator device according to claim 1 further configured to transmit  
the processed data to an at least one monitoring device in response to programming  
instructions received in an incoming wireless packet switched data message.

25

8. A programmable communicator device according to claim 7, wherein the processing  
module is configured to cause the processed data to be transmitted to the at least one  
monitoring device in response to programming instructions received in an incoming wireless  
packet switched data message.

30

9. A programmable communicator device according to claim 7 further configured to

determine whether the data request initiated by the monitoring device includes a required access code in response to programming instructions received in an incoming wireless packet switched data message.

5 10. A programmable communicator device according to claim 9, wherein the processing module is configured to determine whether the data request includes the required access code in response to programming instructions received in an incoming wireless packet switched data message.

10 11. A programmable communicator device according to claim 1 further configured to determine whether the processed received data indicates a change in status of the at least one monitored technical device that crosses a threshold parameter, or that otherwise indicates an alarm condition in response to programming instructions received in an incoming wireless packet switched data message.

15 12. A programmable communicator device according to claim 11 further configured to send an at least one transmission for alerting an at least one monitoring device of said change in status or other alarm condition in response to programming instructions received in an incoming wireless packet switched data message.

20 13. A programmable communicator device according to claim 1 further configured to request that an at least one monitored technical device send data through the programmable interface for receipt by the programmable communicator device in response to programming instructions received in an incoming wireless packet switched data message.

25 14. A programmable communicator device according to claim 1 further configured to transmit the received data to an at least one monitoring device either periodically or in response to a data request initiated by the monitoring device in response to programming instructions received in an incoming wireless packet switched data message.

30 15. A programmable communicator device according to claim 14, wherein the processing

module is configured to cause the received data to be transmitted to the at least one monitoring device in response to programming instructions received in an incoming wireless packet switched data message.

5 16. A programmable communicator device according to claim 1 configured to process an at least one data monitoring or data collection request contained in an at least one transmission received from an at least one monitoring device in response to programming instructions received in an incoming wireless packet switched data message.

10 17. A programmable communicator device according to claim 1 further comprising a location processing module configured to determine an at least one location of the programmable communicator device, and wherein the programmable communicator device is configured to respond to an at least one transmission initiated by an at least one monitoring device requesting that said location data be sent to the monitoring device in response to  
15 programming instructions received in an incoming wireless packet switched data message.

18. A programmable communicator device according to claim 17 wherein the location processing module comprises a Global Positioning System (GPS) module.

20 19. A programmable communicator device according to claim 1 wherein the monitored technical device is a sensor device.

20. A programmable communicator device according to claim 1 wherein the monitored technical device is a health monitoring system.

25

Attorney Docket: 3781/1015

**Programmable Communicator**

**Abstract**

A programmable communicator device is disclosed having a wireless communications  
5 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  
10 identifier, and memory configured to store telephone numbers or IP addresses received in  
transmissions from an authenticated caller.

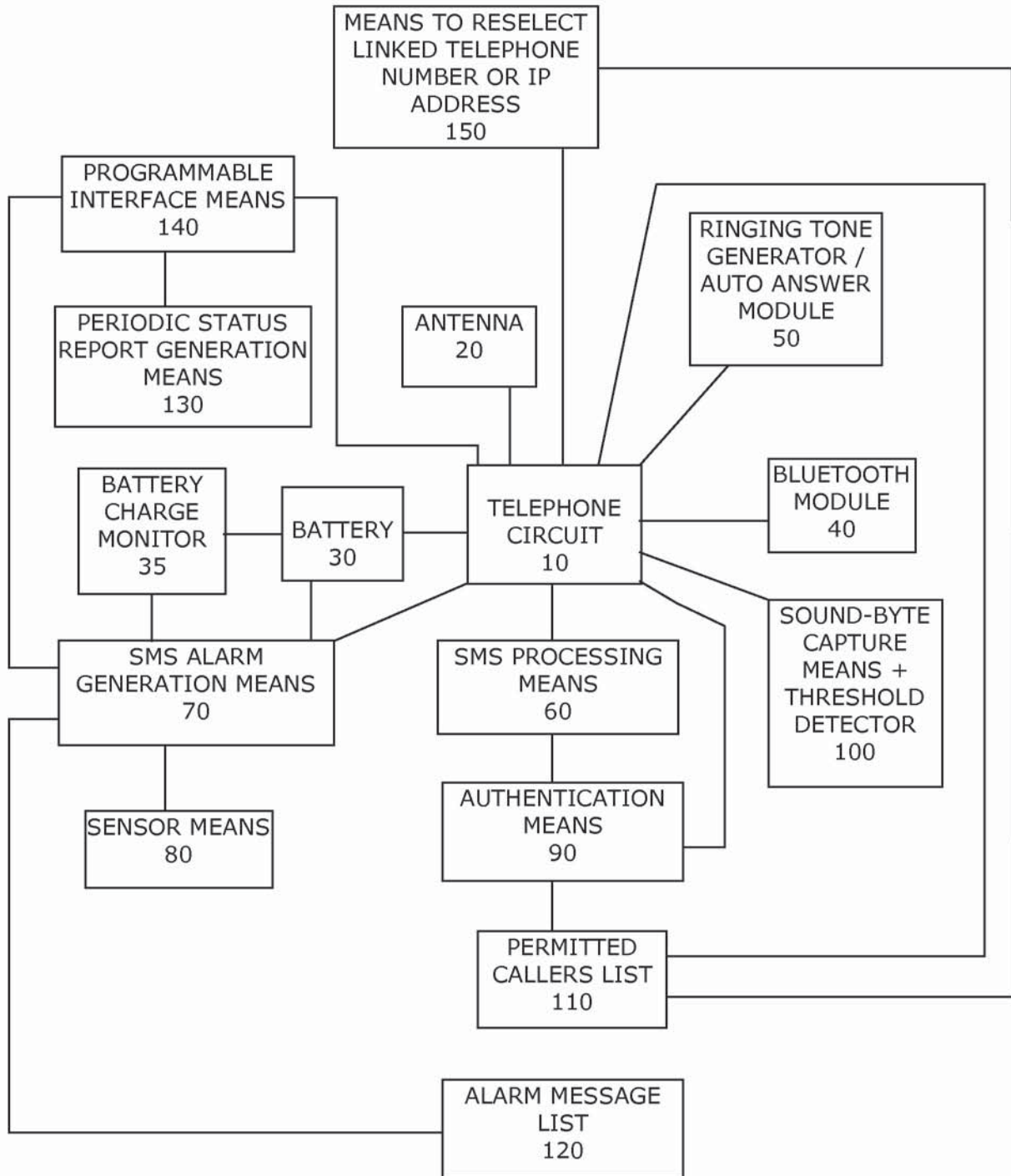


Fig. 1



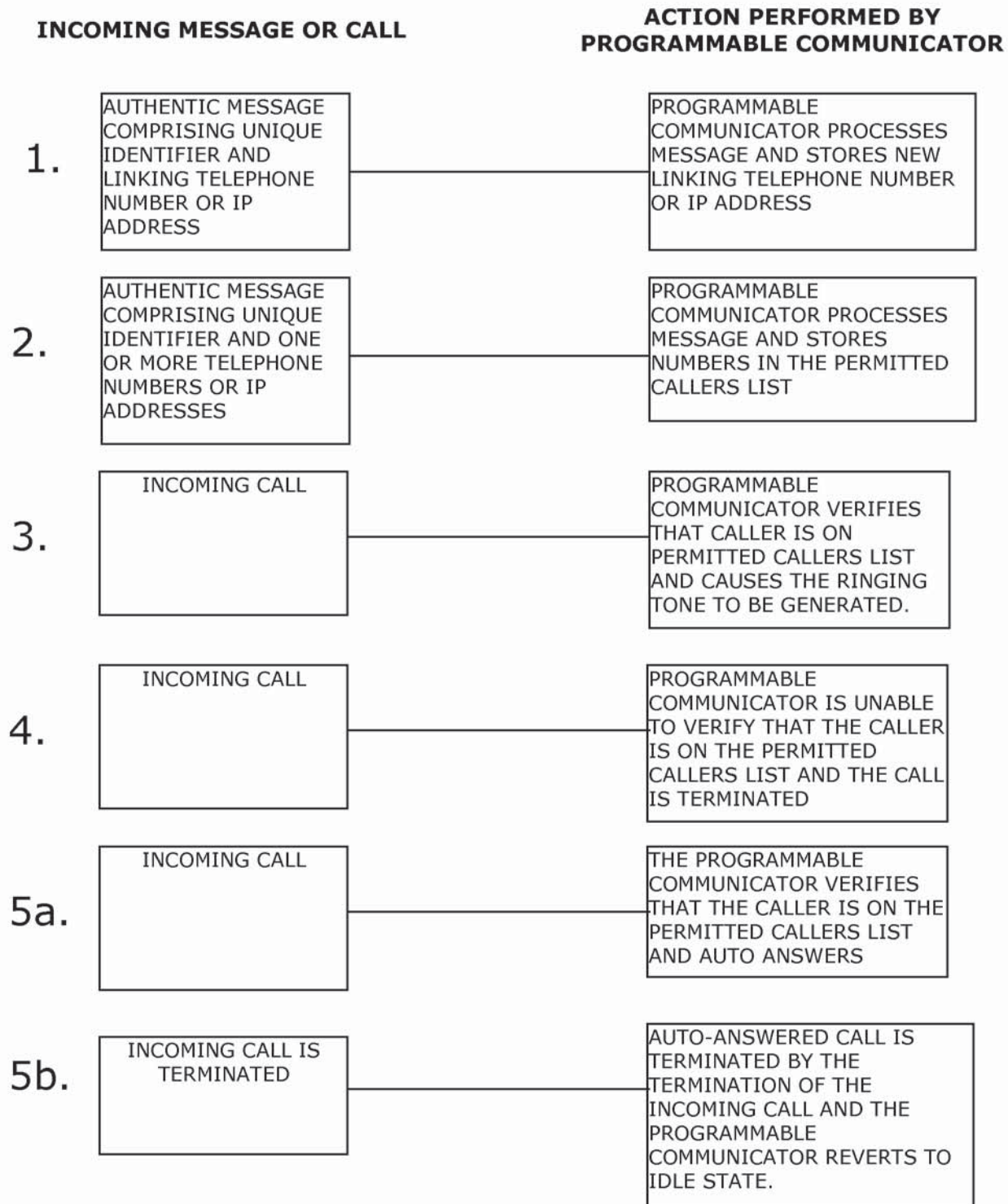


Fig.2

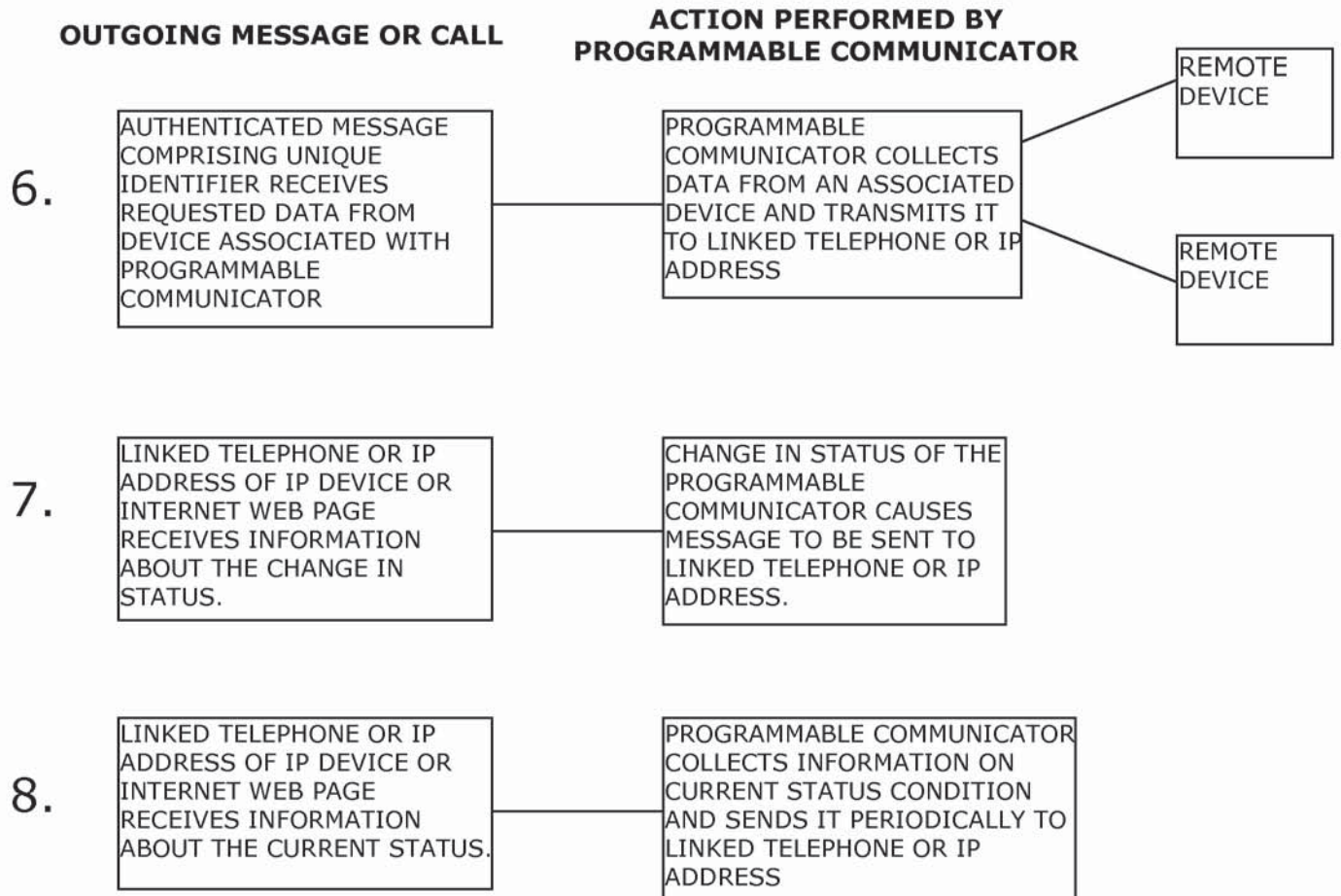


Fig. 3