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[Continued on next page]

(54) Title: PROVIDING REMOTE INTERACTIONS WITH HOST DEVICE USING A WIRELESS DEVICE

(57) Abstract: A wearable device that communicates with a host device can be used to initiate a communication functionality of the host device (e.g., telephone calls, text messages). The wearable device can obtain user input indicating a recipient of the communication and in some instances content for the communication and can provide an instruction to the host device. The host device can use the indicated recipient and content to initiate communication and where applicable to send the content. Recipients and/or content can be selected from predefined lists available on the wearable device.

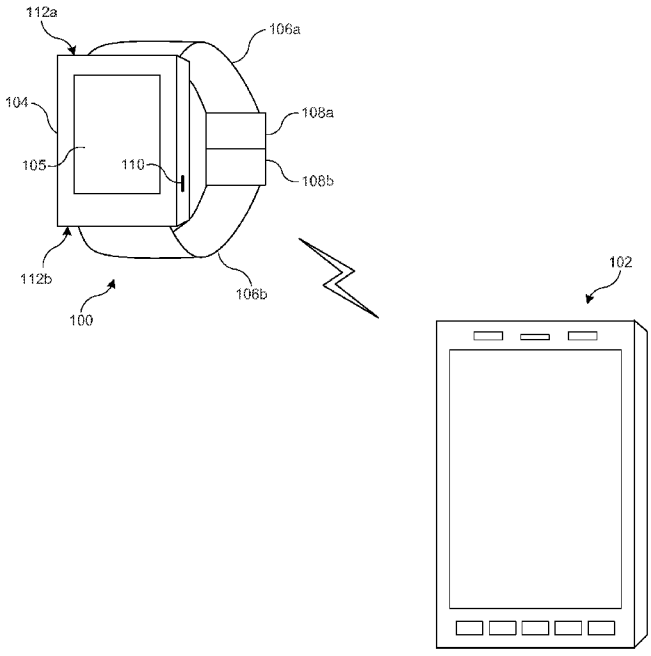


FIG. 1

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TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:
4 December 2014

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US14/27882

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - H04M 1/64 (2014.01)
USPC - 379/69
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC(8) Classifications: H04B 7/00; H04M 1/64 (2014.01)
CPC Classifications: H04M 1/64; H04B 7/00; USPC Classifications: 370/310; 379/69, 81

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
MicroPatent (US-G, US-A, EP-A, EP-B, WO, JP-bib, DE-C,B, DE-A, DE-T, DE-U, GB-A, FR-A); Google/Google Scholar; IEEE; ProQuest
wrist, device, wearable, terminate, call, cancel, stop, host, receiver, placing, initiate, identifier, person, individual, recipient, confirm, affirm

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2008/0259829 A1 (ROSENBLATT, M) 23 October 2008, paragraphs [0010], [0068], and [0100].	1-4 and 6 --- 5 and 7
Y	US 2009/0311993 A1 (HORODEZKY, S) 17 December 2009, paragraphs [0020] and [0030].	
A	US 2001/0031622 A1 (KIVELA, S et al.) 18 October 2001, entire document.	

☐ Further documents are listed in the continuation of Box C. ☐

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
31 July 2014 (31.07.2014)	10 OCT 2014
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Shane Thomas PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US14/27882

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fee must be paid.

Group I: Claims 1-7 are directed toward a method of placing a phone call on a wearable device.

Group II: Claims 8-12 are directed toward a method of placing a phone call received from a wearable device.

Group III: Claims 13-21 are directed toward methods of sending a message using a wearable device.

Group IV: Claims 22-27 are directed toward a method of operating a wearable device.

-***-See Supplemental Page-***-

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-7

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☐ No protest accompanied the payment of additional search fees.

-***-Continued from Box III: Lack of Unity of Invention-***-
The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical features of Group I include in response to receiving the confirmation, presenting, by the wearable device to the user, a control operable by the user to terminate the call, which is not present in Groups II-IV.

The special technical features of Group II include routing, by the host device, audio signals associated with the call between the telephone transceiver and an audio device, the routing being based at least in part on a user preference setting of the host device, which is not present in Groups I, III, and IV.

The special technical features of Group III include obtaining, by the wearable device, a second user input indicative of a content of the message; creating, by the host device, a message to be sent based at least in part on the content identifier; and determining, by the host device, a destination address for the message based at least in part on the recipient identifier, which are not present in Groups I, II, and IV.

The special technical features of Group IV include detecting, using a motion sensor of the wearable device, a motion characteristic of a user moving the wearable device into a viewing position; and in response to detecting the motion, activating a user interface component of the wearable device, which are not present in Groups I-III.

The common technical features shared by Groups I-IV are establishing communication, by a wearable electronic device, with a host device, the host device including a telecommunication interface; obtaining, by the wearable device, user input indicative of a communication to be performed, the user input including an identifier of a recipient of the communication to be performed; sending, by the wearable device, an instruction to the host device to perform the communication, the instruction including the identifier of the recipient; performing, by the host device, the communication using the telecommunication interface; receiving, by the wearable device, a confirmation from the host device that the communication has been performed; wherein the communication to be performed is a call to be placed; and wherein the telecommunications interface is a telephone transceiver.

However, these common features are previously disclosed by US 2008/0259829 A1 to Rosenblatt, M (hereinafter 'Rosenblatt'). Rosenblatt discloses establishing communication, by a wearable electronic device, with a host device, the host device including a telecommunication interface (peripheral device, such as a watch, may be wirelessly connected to a host device comprising an attached RF module for long-range communication, paragraphs [0010], [0068], and [0100]); obtaining, by the wearable device, user input indicative of a communication to be performed, the user input including an identifier of a recipient of the communication to be performed; sending, by the wearable device, an instruction to the host device to perform the communication, the instruction including the identifier of the recipient; performing, by the host device, the communication using the telecommunication interface (a user may select a name of a contact from a list displayed on their wirelessly-connected watch in order to initiate a phone call at the host device via the RF module, which in response to initiation of the communication event uses long-range communications circuitry to establish communications, paragraphs [0068] and [0100]-[0102]); receiving, by the wearable device, a confirmation from the host device that the communication has been performed (data from the established communication is transmitted from the host device to the peripheral device, such as a watch, paragraphs [0100] and[0102]); wherein the communication to be performed is a call to be placed (communication may be a phone call, paragraph [0100]); and wherein the telecommunications interface is a telephone transceiver (the RF module may provide the host device with the ability to process telephone calls, paragraphs [0068] and [0071]).

Since the common technical features are previously disclosed by the Rosenblatt reference, these common features are not special and so Groups I-IV lack unity.