(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
28 November 2013 (28.11.2013)

WIPO | PCT

(10) International Publication Number
WO 2013/177017 A3

(51) International Patent Classification:
G06F 1/16 (2006.01) *H04L 29/06* (2006.01)
H04M 1/725 (2006.01) *H04M 1/27* (2006.01)
H04W 76/00 (2009.01)

(21) International Application Number:
PCT/US2013/041770

(22) International Filing Date:
20 May 2013 (20.05.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
13/479,255 23 May 2012 (23.05.2012) US

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(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

[Continued on next page]

(54) Title: SYSTEMS AND METHODS FOR ESTABLISHING A GROUP COMMUNICATION BASED ON MOTION OF A MOBILE DEVICE

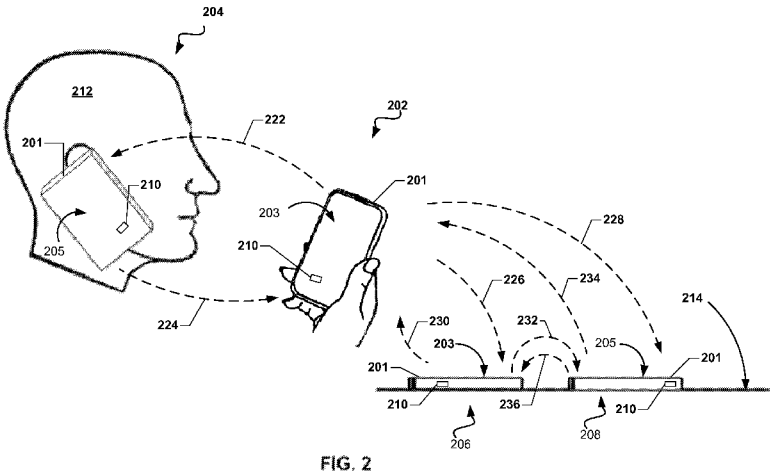


FIG. 2

(57) Abstract: Methods and systems of communication using a mobile device include communicating with other mobile devices over an initial communication channel, detecting a first motion of the mobile device moving from a first position to a second position, establishing a second communication channel with the other mobile devices in response to the detected first motion, and communicating with the other mobile devices over the second communication channel. In an example, the initial communication may be a half-duplex communication channel, and the second communication channel may be a full-duplex communication channel. In another example,the initial communication may be a full-duplex communication channel, and the second communication channel may be a half-duplex communication channel.

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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:
23 January 2014

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2013/041770

A. CLASSIFICATION OF SUBJECT MATTER
INV. G06F1/16 H04M1/725
ADD. H04W76/00 H04L29/06 H04M1/27

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)
G06F H04M

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)
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2007/149731 A1 (SYMBOL TECHNOLOGIES INC [US]; WULFF THOMAS [US]) 27 December 2007 (2007-12-27)	1-6, 17-22, 33-38, 49-54
Y	paragraphs [0013], [0015], [0021] - [0023], [0025], [0031] claims 11,13-17 figures 4a, 4b	7-9, 23-25, 39-41, 55-57
Y	WO 2009/151947 A1 (QUALCOMM INC [US]; BREWER BETH ANN [US]; ROSS DAVID J [US]; ROSEN ERIC) 17 December 2009 (2009-12-17)	7-9, 23-25, 39-41, 55-57
A	paragraphs [0025], [0051], [0052] paragraph [0051] - paragraph [0052] paragraph [0025]	1-6, 17-22, 33-38, 49-54

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[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

* 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
27 November 2013	04/12/2013

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Rüschmann, Frank

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Form PCT/ISA/210 (second sheet) (April 2005)

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2006/117438 A1 (NOKIA CORP [FI]; NURMI MIKKO [FI]) 9 November 2006 (2006-11-09) abstract page 1, lines 18-21 page 2, line 16 - page 3, line 15 page 4, line 19 - page 5, line 26 page 6, lines 3-33 page 7, line 33 - page 8, line 6 figures 1-3b	10-16, 26-32, 42-48, 58-64
Y	WO 2010/074910 A2 (MOTOROLA INC [US]; ALAMEH RACHID M [US]; ADY ROGER W [US]; HEDE WILLIA) 1 July 2010 (2010-07-01) paragraphs [0005], [0015], [0020], [0021], [0025], [0027], [0028], [0035], [0038], [0039], [0041] figure 3	10-16, 26-32, 42-48, 58-64

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2013/041770

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:

see additional sheet

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 an 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.:

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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-9, 17-25, 33-41, 49-57

   Based on a motion of a first mobile device, being in communication with a second mobile device over a first communication channel, a second communication channel is is established and used for communication between the first and the second mobile device.

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2. claims: 10-16, 26-32, 42-48, 58-64

   Based on a motion of a first mobile device, being in communication with a second mobile device over a first communication channel, a second communication channel is is established and used for communication between the first and the second mobile device. The second mobile device is determined based on a user interface context presented to the user.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2013/041770

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2007149731 A1	27-12-2007	CN 101496391 A	29-07-2009
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