



- (51) International Patent Classification:
G01F 1/00 (2006.01)
- (21) International Application Number:
PCT/US2010/048646
- (22) International Filing Date:
13 September 2010 (13.09.2010)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
61/241,376 11 September 2009 (11.09.2009) US
61/242,201 14 September 2009 (14.09.2009) US
12/813,292 10 June 2010 (10.06.2010) US
- (72) Inventor; and
- (71) Applicant : **BONNAT, Pierre** [FR/US]; 3430 East Russell Road, Las Vegas, Nevada 89120 (US).
- (74) Agent: **CHINTALAPOODI, Pramod**; McAndrews, Held & Malloy, LTD., 500 W. Madison Street, Suite 3400, Chicago, Illinois 60661 (US).
- (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, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

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

(88) Date of publication of the international search report:
20 March 2014

(54) Title: METHOD AND SYSTEM FOR CONTROLLING A USER INTERFACE OF A DEVICE USING HUMAN BREATH

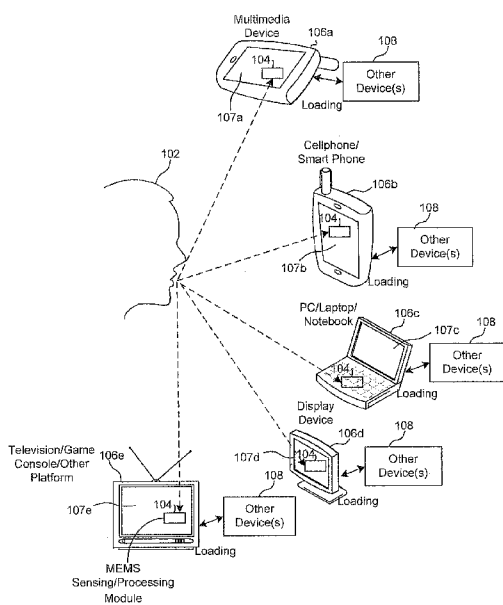


FIG. 1A

(57) Abstract: Certain aspects of a method and system for controlling a user interface of a device using human breath may include a device comprising an embedded micro-electro-mechanical system (MEMS) sensing and processing module. The MEMS sensing and processing module may detect movement caused by expulsion of human breath by a user. In response to the detection of movement caused by expulsion of human breath, one or more control signals may be generated. The generated control signals may control the user interface of the device and may enable navigation and/or selection of components in the user interface.

WO 2011/032096 A3

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2010/048646

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - 702/48 (2010.01)
USPC - G01F 1/00
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) - 702/48, 104; 700/90, 83, 266 (2010.01)
USPC - G01F 1/00, 7/00; G05B 21/00

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, Google Patents

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 2008/0177404 A1 (BONNAT) 24 July 2008 (24.07.2008) entire document	1-8, 10-18, 20-28, 30 ----- 9, 19, 29
Y	US 7,587,277 B1 (WELLS) 08 September 2009 (08.09.2009) entire document	9, 19, 29
A	US 2009/0082884 A1 (BONNAT) 26 March 2009 (26.03.2009) entire document	1-30
A	US 6,213,955 B1 (KARAKASOGLU et al) 10 April 2001 (10.04.2001) entire document	1-30

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
25 October 2010

Date of mailing of the international search report
03 NOV 2010

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:
Blaine R. Copenheaver
PCT Helpdesk: 571-272-4300
PCT OSP: 571-272-7774