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(71) Applicant: QEEXO, CO [US/US]; 3003 North 1st Street #311, San Jose, CA 95134 (US).

(72) Inventors: HARRISON, Christopher; c/o Qeexo, CO., 3003 North 1st. Street #311, San Jose, CA 95134 (US). XIAO, Robert, Bo; c/o Qeexo, CO., 3003 North 1st Street #311, San Jose, CA 95134 (US). SCHWARZ, Julia; c/o Qeexo, CO., 3003 North 1st Street #311, San Jose, CA 95134 (US).

(74) Agents: TRAN, David et al.; IPV Law Group, P.O. Box 51677, San Jose, CA 95151 (US).

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[Continued on next page]

(54) Title: CAPTURE OF VIBRO-ACOUSTIC DATA USED TO DETERMINE TOUCH TYPES

(57) Abstract: An electronic device includes a touch-sensitive surface, for example a touch pad or touch screen. The user physically interacts with the touch-sensitive surface, producing touch events. The resulting interface actions taken depend at least in part on the touch type. The type of touch is determined in part based on vibro-acoustic data and touch data produced by the touch event.

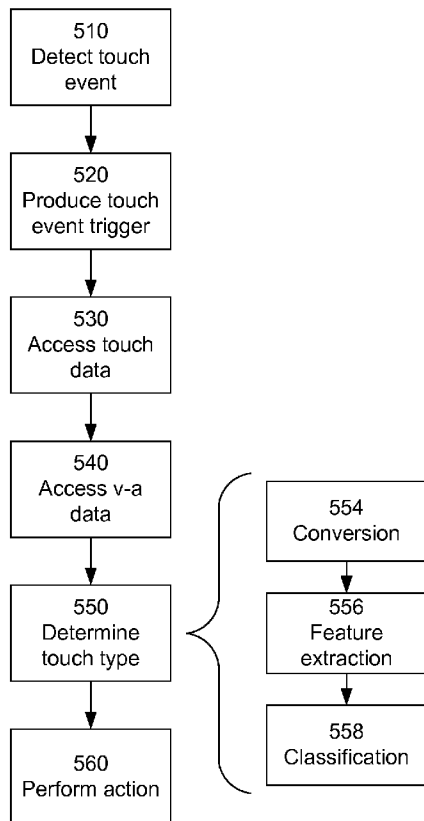


FIG. 5

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MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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.

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B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC(8) - G06F 3/041, G06F 3/041, G08B 23/00, G09G 5/00, G06K 9/00, G06F 3/041 (2014.01) USPC - 345/173, 340/573.1, 345/156, 382/103, 345/173 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched CPC - G06F 3/0433, G06F 3/0416, G06F 3/044, G06F 1/163, G06F 1/1673, G06F 3/011, G06F 3/017 (2014.09) Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Orbit, Google Patents, Google.		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2013/059488 A1 (HARRISON et al.) 25 April 2013 (25.04.2013) entire document	1, 3-7, 11-28
Y		2, 8-10
Y	US 2011/0133934 A1 (TAN et al.) 9 June 2011 (9.06.2011) entire document	2, 8-10
A	US 2012/0262407 A1 (HINCKLEY et al.) 18 October 2012 (18.10.2012) entire document	1-28
A	US 2012/0200517 A1 (NIKOLOVSKI et al.) 9 August 2012 (9.08.2012) entire document	1-28
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