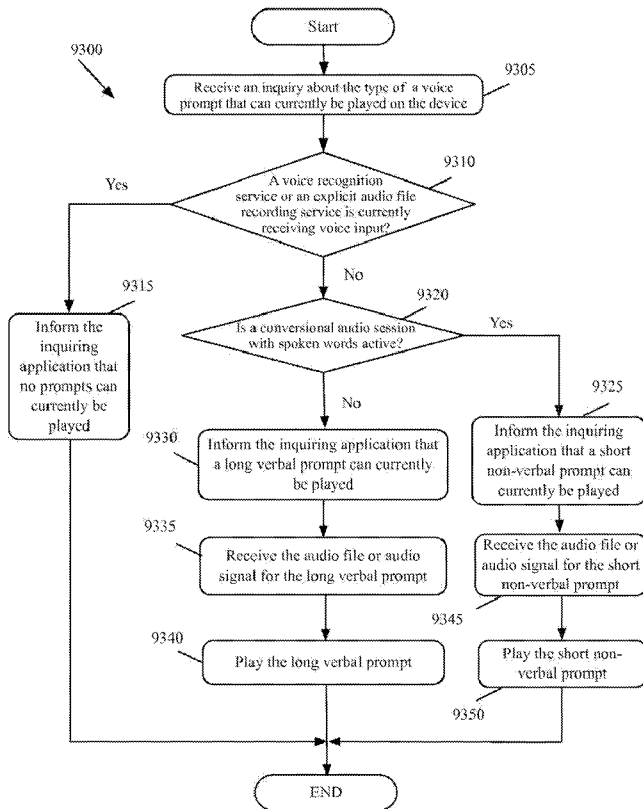




<p>(51) International Patent Classification: <i>G01C 21/36</i> (2006.01)</p> <p>(21) International Application Number: PCT/US2013/043197</p> <p>(22) International Filing Date: 30 May 2013 (30.05.2013)</p> <p>(25) Filing Language: English</p> <p>(26) Publication Language: English</p> <p>(30) Priority Data: 61/655,997 5 June 2012 (05.06.2012) US 61/655,995 5 June 2012 (05.06.2012) US 61/656,043 6 June 2012 (06.06.2012) US 61/656,032 6 June 2012 (06.06.2012) US 61/656,080 6 June 2012 (06.06.2012) US 61/656,015 6 June 2012 (06.06.2012) US 61/657,880 10 June 2012 (10.06.2012) US 61/657,864 10 June 2012 (10.06.2012) US 61/699,853 11 September 2012 (11.09.2012) US 61/699,855 11 September 2012 (11.09.2012) US</p>	<p>61/699,857 11 September 2012 (11.09.2012) US 61/699,841 11 September 2012 (11.09.2012) US 61/699,842 11 September 2012 (11.09.2012) US 61/699,851 11 September 2012 (11.09.2012) US 13/632,121 30 September 2012 (30.09.2012) US 61/757,214 27 January 2013 (27.01.2013) US 13/802,654 13 March 2013 (13.03.2013) US</p> <p>(71) Applicant: APPLE INC. [US/US]; 1 Infinite Loop, Cupertino, CA 95014 (US).</p> <p>(72) Inventors: BENNETT, Jonathan, A.; 1 Infinite Loop, M/S 38-4IMG, Cupertino, CA 95014 (US). LEMAY, Stephen, O.; 1 Infinite Loop, M/S 302-2LF, Cupertino, CA 95014 (US). VAN OS, Marcel; 1 Infinite Loop, M/S 302-2HI, Cupertino, CA 95014 (US). FORSTALL, Scott; 1 Infinite Loop, M/S 302-1NS, Cupertino, CA 95014 (US).</p> <p>(74) Agent: ADELI, Mani; Adeli & Tollen, LLP, 11859 Wilshire Blvd., Suite 500, Los Angeles, CA 90025 (US).</p> <p>(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,</p>
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[Continued on next page]

(54) Title: CONTEXT-AWARE VOICE GUIDANCE



(57) Abstract: Many map-based applications available today are designed for a variety of different devices (e.g., desktops, laptops, tablet devices, smartphones, handheld global positioning system (GPS) receivers, etc.) and for various different purposes (e.g., navigation, browsing, sports, etc.). Most of these applications generate displays of a map based on map data that describes relative locations of streets, highways, points of interest, etc., in the map. The maps used in such applications are usually two-dimensional (2D) maps or three-dimensional (3D) maps. However, a large number of the applications use 2D maps due in part to the processing-intensive demands of viewing 3D maps. For the same reason, the applications that use 3D maps are often slow, inefficient, plain, and/or simple, to the point that renders the application useless.

WO 2013/184473 A3



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, 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, KM, ML, MR, NE, SN, TD, TG).

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<p>A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - G01C 21/36 (2013.01) USPC - 701/211 According to International Patent Classification (IPC) or to both national classification and IPC</p>																				
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols) IPC(8) - G01C 21/00, 21/34, 21/36; G06F 17/00 (2013.01) USPC - 381/119; 700/94; 701/200, 211</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched CPC - G01C 21/00, 21/34, 21/36, 21/3629; G06F 17/00 (2013.01)</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PatBase, Orbit, Google Patent, Google Scholar</p>																				
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>US 2009/0306891 A1 (JEON et al.) 10 December 2009 (10.12.2009) entire document</td> <td>1-56</td> </tr> <tr> <td>Y</td> <td>US 2011/0218711 A1 (MATHUR et al.) 08 September 2011 (08.09.2011) entire document</td> <td>1-56</td> </tr> <tr> <td>Y</td> <td>US 2009/0248420 A1 (BASIR et al.) 01 October 2009 (01.10.2009) entire document</td> <td>1-34</td> </tr> <tr> <td>Y</td> <td>US 2008/0140314 A1 (PARK) 12 June 2008 (12.06.2008) entire document</td> <td>7, 24, 38, 49</td> </tr> <tr> <td>Y</td> <td>US 2010/0232626 A1 (PAQUIER et al.) 16 September 2010 (16.09.2010) entire document</td> <td>13-15, 30-32</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	Y	US 2009/0306891 A1 (JEON et al.) 10 December 2009 (10.12.2009) entire document	1-56	Y	US 2011/0218711 A1 (MATHUR et al.) 08 September 2011 (08.09.2011) entire document	1-56	Y	US 2009/0248420 A1 (BASIR et al.) 01 October 2009 (01.10.2009) entire document	1-34	Y	US 2008/0140314 A1 (PARK) 12 June 2008 (12.06.2008) entire document	7, 24, 38, 49	Y	US 2010/0232626 A1 (PAQUIER et al.) 16 September 2010 (16.09.2010) entire document	13-15, 30-32
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<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>“A” document defining the general state of the art which is not considered to be of particular relevance</td> <td>“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</td> </tr> <tr> <td>“E” earlier application or patent but published on or after the international filing date</td> <td>“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</td> </tr> <tr> <td>“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)</td> <td>“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</td> </tr> <tr> <td>“O” document referring to an oral disclosure, use, exhibition or other means</td> <td>“&” document member of the same patent family</td> </tr> <tr> <td>“P” document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			“A” document defining the general state of the art which is not considered to be of particular relevance	“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	“E” earlier application or patent but published on or after the international filing date	“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	“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)	“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	“O” document referring to an oral disclosure, use, exhibition or other means	“&” document member of the same patent family	“P” document published prior to the international filing date but later than the priority date claimed									
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<p>Date of the actual completion of the international search</p> <p>06 December 2013</p>		<p>Date of mailing of the international search report</p> <p>19 DEC 2013</p>																		
<p>Name and mailing address of the ISA/US</p> <p>Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201</p>		<p>Authorized officer:</p> <p>Blaine R. Copenheaver</p> <p>PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774</p>																		