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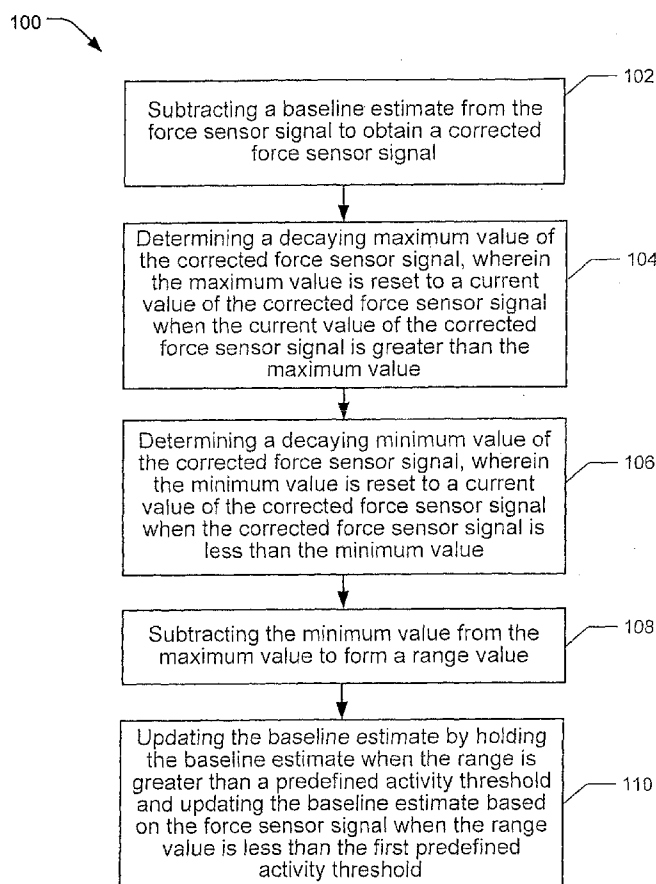
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[Continued on next page]

(54) Title: SENSOR BASELINE COMPENSATION IN A FORCE-BASED TOUCH DEVICE



(57) Abstract: Disclosed is method and device for compensating a force sensor signal for baseline error in a force-based touch screen. In one embodiment, baseline compensation includes determining (102, 104) a decaying maximum value (406) and a decaying minimum value (408) of the force sensor signal 306), and subtracting (108) these values to obtain a range value (412). When the range value is less than a predetermined activity threshold (415), updating (110) of the baseline is disabled. The decaying maximum value and decaying minimum value are reset to the current value of the force sensor signal when exceeded by the current value of the force sensor signal.



FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,
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B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 702/56, 85, 104, 116, 190; 345/173 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) EAST				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X --- A A	US 4,918,262 A (FLOWERS et al) 17 April 1990 (17.04.1990), column 4, line 35 to column 10, line 68); figures 5-6. US 2006/0071912 A (HILL et al) 06 April 2006 (06.04.2006), entire reference.	9-17 ----- 1-8, 18-20 1-20		
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> * 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 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 </td> <td style="width: 50%; vertical-align: top;"> "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 </td> </tr> </table>			* 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 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
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