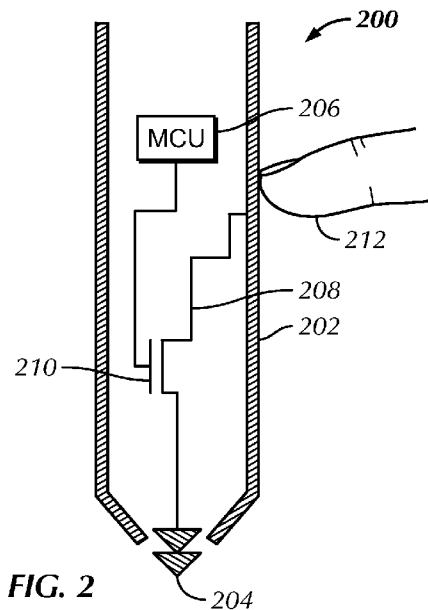




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[Continued on next page]

(54) Title: IDENTIFIABLE STYLUS



(57) Abstract: A stylus is disclosed. The stylus includes a shaft; a conductive tip at a distal end of the shaft; and control circuitry coupled to the conductive tip and configured to generate a modulated signal at the conductive tip to identify the stylus. The stylus can also include a switch coupled between the conductive tip and the shaft. The control circuitry can be further configured to control the switch to modulate a conductive path between the conductive tip and the shaft to generate the modulated signal.





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14 March 2013

- *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))*

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2012/043021

A. CLASSIFICATION OF SUBJECT MATTER
INV. G06F3/044 G06F3/0354
ADD.

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

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	US 2010/051356 A1 (STERN YUVAL [IL] ET AL) 4 March 2010 (2010-03-04)	1,2, 5-10,14, 15,17, 19,20
Y	abstract; figures 1A-13 paragraphs [0005], [0006], [0073], [0076], [0080] - [0082], [0085], [0087], [0104], [0114] - [0119], [0124]	3,4, 11-13, 16,18
Y	EP 0 762 319 A2 (SYMBIOS LOGIC INC [US]) 12 March 1997 (1997-03-12) abstract; figures 1-9 column 2, lines 20-38 column 3, lines 4-46 column 8, line 34 - column 9, line 5 column 10, lines 5-39 ----- -/--	11



Further documents are listed in the continuation of Box C.



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

9 January 2013

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2012/043021

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2004/008189 A1 (CLAPPER EDWARD O [US] ET AL) 15 January 2004 (2004-01-15) abstract; figures 1A-6 paragraphs [0020] - [0022], [0025] - [0031], [0041], [0042] -----	12, 13, 16
A	WO 97/40488 A1 (CIRQUE CORP [US]) 30 October 1997 (1997-10-30) abstract; figures 1-10 page 1, lines 10-18 page 4, lines 6-13 page 4, line 26 - page 6, line 6 page 7, lines 18-26 page 9, lines 15-30 page 12, lines 1-11 -----	2, 15
A	US 2008/128180 A1 (PERSKI HAIM [IL] ET AL) 5 June 2008 (2008-06-05) abstract; figures 1-11C paragraphs [0016] - [0018], [0039], [0068] - [0080] -----	1-20
Y	WO 99/22338 A1 (BRITISH TELECOMM [GB]; WILLIAMS HILARY LYNDAY [GB]) 6 May 1999 (1999-05-06) abstract; figures 1-19 page 4, lines 11-22 page 5, lines 22-34 page 7, line 33 - page 8, line 19 page 15, lines 18-24 -----	3, 18
Y	US 2007/285405 A1 (REHM PETER H [US]) 13 December 2007 (2007-12-13) abstract; figures 1A-2 paragraphs [0091], [0092] -----	4

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/043021

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.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2012/043021

Patent document cited in search report	Publication date	Publication date	Patent family member(s)	Publication date
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US 2007285405	A1	13-12-2007	NONE	

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, 2, 7-17

Invention 1 (claims 1, 2, 7-17) directed towards specific aspects of how to generate a modulated signal at a conductive tip of a stylus, the stylus (essentially) comprising:

- (i) a shaft and a conductive tip at a distal end of the shaft;
- (ii) a control circuitry coupled to the conductive tip and configured to generate a modulated signal at the conductive tip to identify the stylus; and
- (iii) wherein the modulated signal is generated by one of modulating a conductive path between the tip and the shaft, using an RLC circuit, or repeatedly extending and retracting the conductive tip from/within the shaft.

2. claims: 3-6, 18-20

Invention 2 (claims 3-6, 18-20) directed towards specific aspects of controlling when to initiate or terminate a modulated signal at a conductive tip of a stylus, the stylus (essentially) comprising:

- (i) a shaft and a conductive tip at a distal end of the shaft;
- (ii) a control circuitry coupled to the conductive tip and configured to generate a modulated signal at the conductive tip to identify the stylus; and
- (iv) wherein the control circuitry is configured to initiate or terminate the modulated signal in response to a specific event detected by a sensor coupled to the control circuitry.
