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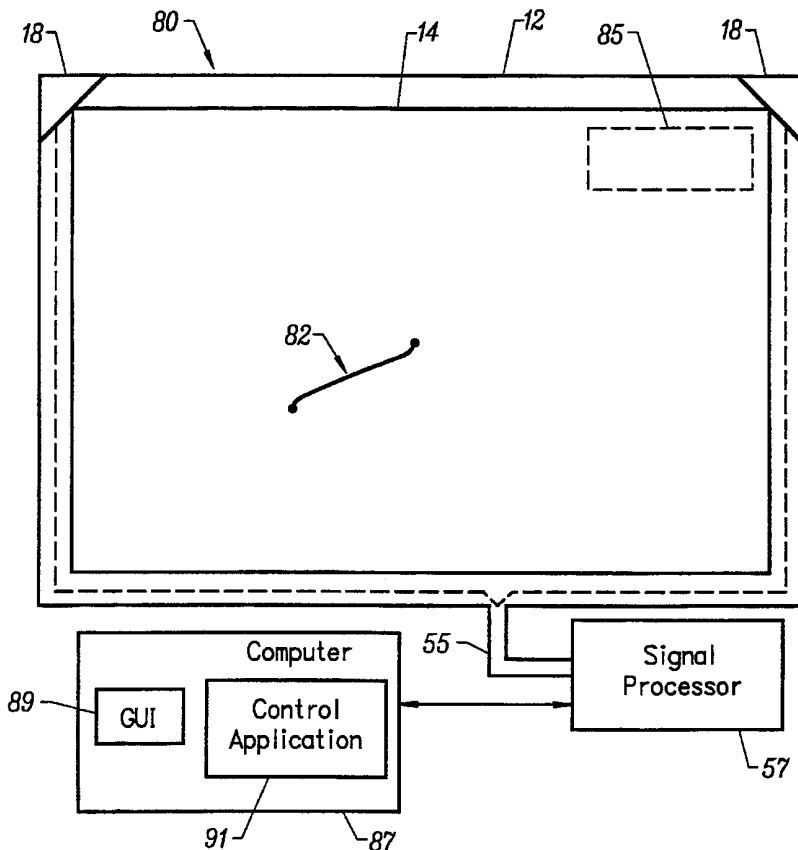
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[Continued on next page]

(54) Title: PRESSURE SENSITIVE STYLUS



(57) Abstract: A pressure sensitive stylus, for example, as is used in a wireless whiteboard application is provided. The stylus includes a pressure sensitive element in contact with a tip of a stylus. As the pressure on the tip is increased during use of the stylus, a line produced may be broader or narrower, or the device may switch states based on pressure. For example, pressing the stylus to the board twice can turn the stylus into a paintbrush, or an eraser, or can change the color of the line produced by the stylus.



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# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 00/08886

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G06K11/18

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 7 G06K

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 practical, search terms used)

EPO-Internal, PAJ, WPI Data, IBM-TDB

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 635 683 A (MCDERMOTT ROBERT M ET AL) 3 June 1997 (1997-06-03) cited in the application  abstract column 1, line 6 -column 2, line 2 column 9, line 14 -column 13, line 36; figures 1-9	1, 3, 5, 6, 12-15, 17, 21, 23, 24, 26-31, 33, 37-39, 41-46, 49, 51, 53, 54, 56-59
Y		4, 25, 40, 52
A	-/--	2, 7-10, 22, 50

Further documents are listed in the continuation of box C.

Patent family members are listed in 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 document 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.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 00/08886

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p style="text-align: center;">---</p> <p>US 5 571 997 A (GRAY DONALD F ET AL) 5 November 1996 (1996-11-05)</p> <p>abstract column 1, line 7 -column 5, line 16; figures 1-3</p>	<p>1, 3, 5, 6, 11, 12, 17, 21, 23, 24, 26-28, 33, 37-39, 41-43, 49, 51, 53, 54, 56</p>
Y		16, 32,
A		47, 60
		2, 7-10, 22, 50
X	<p style="text-align: center;">---</p> <p>US 5 717 168 A (DEBUISSER THOMAS ET AL) 10 February 1998 (1998-02-10)</p> <p>abstract column 5, line 37 -column 7, line 11; figures 2-5 column 10, line 11 -column 11, line 12</p>	<p>1, 12-15, 17, 18, 21, 23, 26-31, 33, 34, 37, 38, 43-46, 48, 49, 55-59</p>
Y		4, 25, 40,
A		52
		19, 20, 35, 36, 61
X	<p style="text-align: center;">---</p> <p>WO 98 39729 A (ZLOTER ISAAC ;ELECTRONICS FOR IMAGING INC (US); HOLTZMAN RAFI (US)) 11 September 1998 (1998-09-11)</p> <p>abstract page 2, line 28 -page 4, last line page 6, line 7 -page 14, line 6; figures 1-9</p>	<p>1-6, 12-15, 17, 19-31, 33, 35-46, 49-54, 56-59, 61</p>
A		5-10, 26, 27, 41, 42, 53, 54
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INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 00/08886

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 5 111 004 A (GULLMAN LARRY S) 5 May 1992 (1992-05-05) the whole document ---	16,32, 47,60
A	US 4 777 329 A (MALLICOAT SAMUEL W) 11 October 1988 (1988-10-11)  abstract column 2, line 12 -column 3, line 24 -----	1-6, 12-15, 17, 19-31, 34-46, 48-59,61

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US 00/08886

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 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 II Observations where unity of invention is lacking (Continuation of item 2 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 fee, this Authority did not invite payment of any additional fee.
  
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.
- No protest accompanied the payment of additional search fees.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-4,11,17,21-25,33,37-40,49-52

relating to a pressure measuring system between a movable transmitter and a receiver wherein the pressure measuring means is programmable.

2. Claims: 5-10,26,27,41,42,53,54

relating to a pressure measuring system between a movable transmitter and a receiver wherein the transmitter output signal has a signal state indicating a pen-down or pen-up condition.

3. Claims: 12-16,28-32,43-47,56-60

relating to a pressure measuring system between a movable transmitter and a receiver wherein the transmitter output signal contains encoded information regarding the movable transmitter.

4. Claims: 18,34,48,55

relating to a pressure measuring system between a movable transmitter and a receiver wherein there is a defined functional area whereby the movable transmitter can send functions to a computer.

5. Claims: 19,20,35,36,61

relating to a pressure measuring system between a movable transmitter and a plurality of receivers or sensors

# INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern. Patent Application No

PCT/US 00/08886

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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