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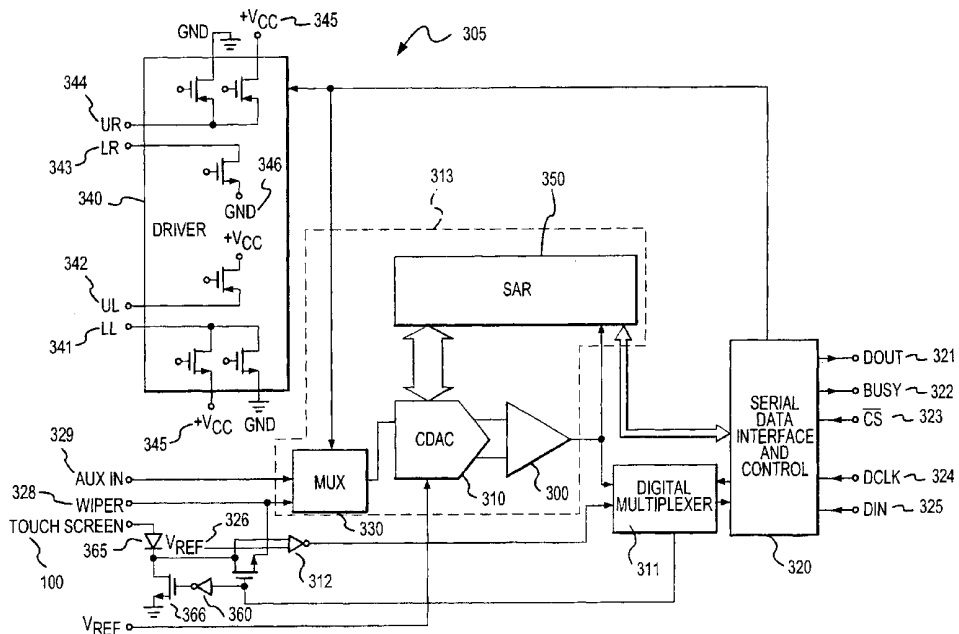
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[Continued on next page]

(54) Title: TOUCH SCREEN CONTROLLER



(57) Abstract: An improved touch screen controller including a comparator and an analog-to-digital converter. The comparator of the touch screen controller detects a touch of the touch screen while the analog-to-digital converter is powered down. The Data Out (DOUT) line of the touch screen controller is used to signal the microprocessor that a touch has occurred. The unique structure of the improved touch screen controller and the fast switching edges of the comparator output signal provide for a faster touch screen controller that consumes little power without requiring a dedicated pin for the touch signal.



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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International Application No
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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06K11/20 G06K11/12

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 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 practical, search terms used)
EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>"Burr-Brown Corp. : ADS7845 Touch Screen Controller data sheet" INTERNET ARTICLE, 'Online! December 1998 (1998-12), pages 1-12, XP002170824 Tucson, AZ, USA Retrieved from the Internet: <URL:http://www.ti.com> 'retrieved on 2001-06-27! page 1; figure page 6, left-hand column, line 1 -page 9, left-hand column, line 14; figures 1,2; table V</p> <p style="text-align: center;">--- -/--</p>	<p>1, 3-6, 8-11</p>

Further documents are listed in the continuation of box C. Patent family members are listed in annex.

° Special categories of cited documents :

<p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*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)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p>	<p>*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</p> <p>*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</p> <p>*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.</p> <p>*Z* document member of the same patent family</p>
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Date of the actual completion of the international search 29 June 2001	Date of mailing of the international search report 12/07/2001
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<p>Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016</p>	<p>Authorized officer Taylor, P</p>
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INTERNATIONAL SEARCH REPORT

 International Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	S-D. KAO ET AL.: "Development and implementation of a simple digitizer for morphometry" MEASUREMENT SCIENCE AND TECHNOLOGY, vol. 7, no. 8, 1 August 1996 (1996-08-01), pages 1182-1186, XP000631809 Bristol, UK page 1183, paragraph 2.2; figure 3 ---	1,3,4,6, 8,11
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Information on patent family members

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