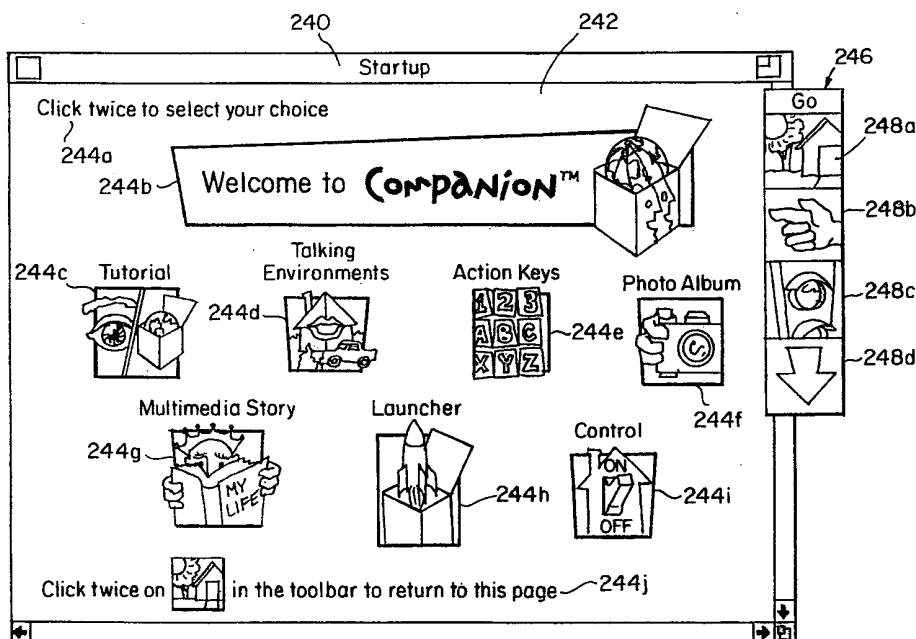




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification <sup>6</sup> : <b>G06F 3/033, 9/44</b></p>	<p><b>A3</b></p>	<p>(11) International Publication Number: <b>WO 99/08175</b> (43) International Publication Date: 18 February 1999 (18.02.99)</p>
<p>(21) International Application Number: PCT/US98/16176 (22) International Filing Date: 5 August 1998 (05.08.98) (30) Priority Data: 60/054,904 5 August 1997 (05.08.97) US 60/061,162 6 October 1997 (06.10.97) US 09/109,149 6 October 1997 (06.10.97) US (63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application US 09/109,149 (CIP) Filed on 6 October 1997 (06.10.97) (71) Applicant (for all designated States except US): ASSISTIVE TECHNOLOGY, INC. [US/US]; 850 Boylston Street, Chestnut Hill, MA 02167 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): SHANE, Howard, C. [US/US]; 69 Grayfield Avenue, West Roxbury, MA 02132 (US). BAXTER, Paul [US/US]; 219 Arthur Street, Framingham, MA 01702 (US). LEBAN, Bruce [US/US]; 39 Fordham Street, Arlington, MA 02174 (US). KOEPPPEL, Brent [US/US]; 83 South Main Street, Natick, MA 01760 (US).</p>	<p>(74) Agents: SMITH, James, M. et al.; Hamilton, Brook, Smith &amp; Reynolds, P.C., Two Militia Drive, Lexington, MA 02421 (US). (81) Designated States: CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). <b>Published</b> <i>With international search report.</i> (88) Date of publication of the international search report: 20 May 1999 (20.05.99)</p>	

(54) Title: UNIVERSALLY ACCESSIBLE COMPUTING SYSTEM



(57) Abstract

A general purpose computer functions as an augmented assisted computing (AAC) system. The AAC system facilitates user access to, and control of, general purpose computer programs. In particular, the computing device is universally accessible to all users, regardless of physical ability.

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# INTERNATIONAL SEARCH REPORT

International Application No

PCi, JS 98/16176

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 6 G06F3/033 G06F9/44				
According to International Patent Classification (IPC) or to both national classification and IPC				
<b>B. FIELDS SEARCHED</b>				
Minimum documentation searched (classification system followed by classification symbols) IPC 6 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)				
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	EP 0 622 725 A (MICROSOFT CORP) 2 November 1994	1,3, 11-13, 18-21, 33-35, 40-42,49		
Y	see the whole document  ---  -/--	9		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.				
<input checked="" type="checkbox"/> Patent family members are listed in annex.				
° Special categories of cited documents :				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;">                     *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                 </td> <td style="width: 50%; border: none; 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.                      *&amp;* document member of the same patent family                 </td> </tr> </table>			*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. *&* document member of the same patent family
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Date of the actual completion of the international search  <p style="text-align: center; font-size: 1.2em;">13 November 1998</p>		Date of mailing of the international search report  <p style="text-align: center; font-size: 1.2em;">19. 03. 1999</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		Authorized officer  <p style="text-align: center; font-size: 1.2em;">BAILAS, A</p>		

## INTERNATIONAL SEARCH REPORT

International Application No

PC, JS 98/16176

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>WO 96 30822 A (FOREST DONALD K) 3 October 1996</p> <p>see page 8, line 11 - line 24 see page 11, line 18 - page 12, line 10 see page 26, line 26 - page 28, line 1 see page 40, line 23 - page 43, line 13; figures 1,2,28</p>	<p>11-13, 17-20, 22,26, 33-35, 39-42, 44,48,49</p>
Y	---	9,23,45
X	<p>US 5 611 040 A (CLAFLIN ANTHONY R ET AL) 11 March 1997</p> <p>see the whole document</p>	<p>1,3, 11-13, 18-20, 25, 33-35, 40-42, 47,49</p>
X	<p>WO 95 25326 A (VOICE POWERED TECHNOLOGY INTER) 21 September 1995</p> <p>see page 4, line 7 - page 5, line 6 see page 6, line 24 - page 8, line 15 see page 10, line 21 - page 11, line 20</p>	1-5,8,10
X	<p>JOHNSON J ET AL: "THE XEROX STAR: A RETROSPECTIVE" COMPUTER, vol. 22, no. 9, 1 September 1989, pages 11-26, 28, XP000066074 see page 11, left-hand column - page 20, middle column</p>	1,3-5,7
X	<p>US 5 561 811 A (BIER ERIC A) 1 October 1996</p> <p>see column 2, line 20 - column 4, line 63</p>	1,3,6
X	<p>US 5 625 783 A (EZEKIEL ALAN W ET AL) 29 April 1997</p> <p>see abstract</p>	11-15, 33-37
Y	<p>see column 1, line 1 - column 3, line 35</p>	24,46
Y	<p>US 3 771 156 A (WATTS E ET AL) 6 November 1973</p> <p>see column 1, line 45 - column 2, line 16 see column 3, line 7 - column 4, line 54</p>	23,45
Y	<p>EP 0 564 845 A (IBM) 13 October 1993</p> <p>see the whole document</p>	24,46

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US 98/16176

## 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.:

1-26, 33-49

### 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**

1. Claims: 1-26,33-49

Graphical user interface for operating a computer by a  
handicapped person

2. Claims: 27-32

Method of controlling a virtual keyboard

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PC., US 98/16176

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