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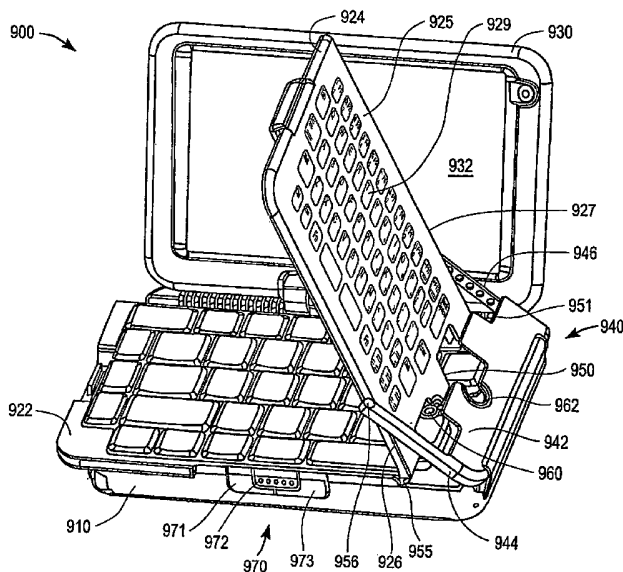
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[Continued on next page]

(54) Title: MOBILE COMPUTER WITH FOLDABLE KEYBOARD



(57) Abstract: A digital processing device (900) including a keyboard assembly (920) and a display assembly (930) coupled to the keyboard assembly. In one embodiment of the present invention, the keyboard assembly has a collapsed form and an opened form and the display assembly has a display width of at least 800 pixels. The keyboard assembly unfolds to form a full-size keyboard (e.g., in conformance with an ISO 9241-4:1998 (E) standard) that allows a user to comfortably, quickly, and accurately "touch-type" in a manner that the user may be accustomed to.

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/029903

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G06F1/16		
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 H04M		
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, 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 A	WO 01/40914 A (VERCEL DEVELOPMENT CORPORATION) 7 June 2001 (2001-06-07) page 2, line 12 - line 18 page 5, line 22 - page 6, line 10 page 9, line 23 - line 34 page 10, line 9 - line 25; figures 1,5,8,9 -----	1,5,37, 39,40 6,7,9, 11,33, 35,36,43
X A	WO 03/073247 A (THINK OUTSIDE, INC) 4 September 2003 (2003-09-04) cited in the application paragraph [0042] paragraph [0044] paragraph [0088] - paragraph [0095]; figures 2A-2H,3A-7 ----- -/--	11-13, 33-36 1-3,5-9, 37,39-43
<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 :		
"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	
Date of the actual completion of the international search <p style="text-align: center;">2 May 2005</p>	Date of mailing of the international search report <p style="text-align: center;">08. 08. 2005</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;">Taylor, P</p>	

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.
X	G.G. PECHANEK ET AL.: "Briefcase-portable Textwriter with 100-key full-size keyboard" IBM TECHNICAL DISCLOSURE BULLETIN, vol. 27, no. 4A, September 1984 (1984-09), pages 2002-2004, XP002127305 ARMONK, NY, US the whole document	6,7,10
X	----- EP 0 691 603 A (COMPAQ COMPUTER CORP.) 10 January 1996 (1996-01-10) cited in the application	11
A	column 4, line 56 - column 6, line 47; figures 2A-2D	1,6,7, 10,37, 39,40,43
A	----- WO 03/028346 A (4151003 CANADA INC) 3 April 2003 (2003-04-03) page 9, line 16 - page 11, line 1; figures 1,2	1,5-7,9, 11,33, 35,37,39
A	----- US 5 621 610 A (MOORE ET AL) 15 April 1997 (1997-04-15) abstract; figures 1-4,6 -----	1,6,11, 37

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2004/029903

Box 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 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 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.:

1-13, 33-43

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: 1-13, 33-43

Digital processing device comprising a folding full-size keyboard and a display characterised in that the display has a certain resolution and the keyboard comprises at least two sections.

2. claims: 14-32

Digital processing device comprising a folding full-size keyboard and a display characterised in that a cursor control device is positioned on the keyboard such that it is operable irrespective of whether the keyboard is open or folded.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/029903

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0140914	A	07-06-2001	AU 2253101 A	12-06-2001
			WO 0140914 A2	07-06-2001
			US 2002063690 A1	30-05-2002

WO 03073247	A	04-09-2003	US 6798649 B1	28-09-2004
			AU 2003213126 A1	09-09-2003
			WO 03073247 A2	04-09-2003
			US 2005002158 A1	06-01-2005

EP 0691603	A	10-01-1996	US 5519569 A	21-05-1996
			CA 2152866 A1	31-12-1995
			EP 0691603 A1	10-01-1996

WO 03028346	A	03-04-2003	US 2002072395 A1	13-06-2002
			CA 2461024 A1	03-04-2003
			CN 1561628 A	05-01-2005
			EP 1430698 A1	23-06-2004
			JP 2005505173 T	17-02-2005
			WO 03028346 A1	03-04-2003
			US 2004147278 A1	29-07-2004

US 5621610	A	15-04-1997	US 5532904 A	02-07-1996
			JP 10055233 A	24-02-1998
			AT 199047 T	15-02-2001
			CA 2152971 A1	31-12-1995
			DE 69520015 D1	08-03-2001
			DE 69520015 T2	07-06-2001
			EP 0691601 A1	10-01-1996
			JP 2857353 B2	17-02-1999
			JP 8054964 A	27-02-1996
			US 5590020 A	31-12-1996
			US 5587875 A	24-12-1996
			US 5602715 A	11-02-1997
			US 5654872 A	05-08-1997
US 5677826 A	14-10-1997			
