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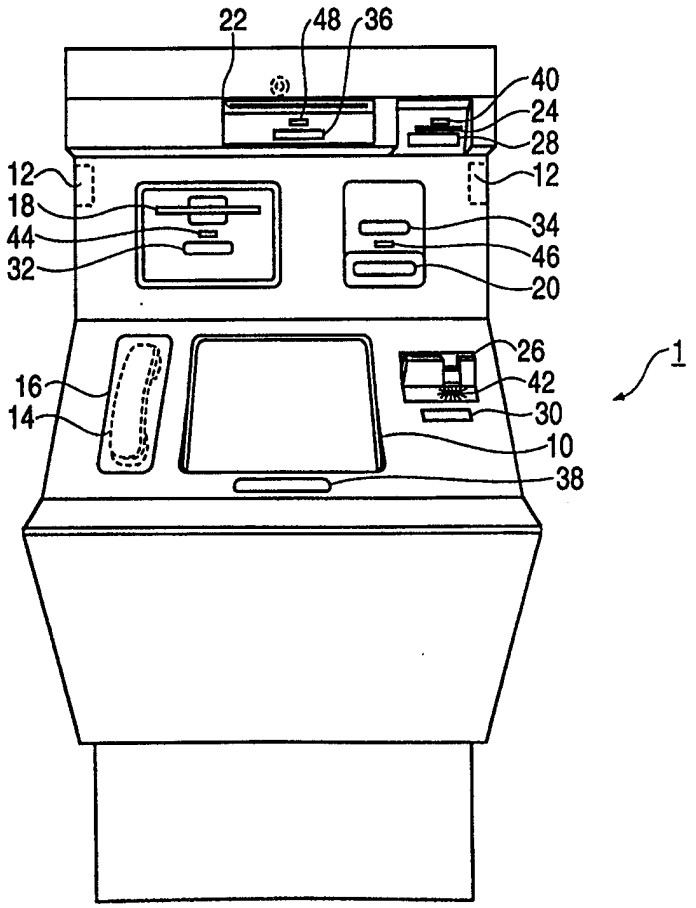
(54) Title: AUTOMATIC BANK TELLER MACHINE FOR THE BLIND AND VISUALLY IMPAIRED

(57) Abstract

An automatic bank teller machine (ATM) (1) that uses a combination of simple visual cues, large-type visual displays, audio (10a, 10b, 14), and a touch-sensitive display screen (10) to facilitate use of the ATM by the blind and visually impaired, while still being useful for the sighted. In particular, the ATM uses a touch-sensitive display screen (10) that has a fixed, easy to locate touch scanning zone. The display screen operates by contacting the screen, with a fingertip, for example, and slidingly moving to a location on the touch scanning zone corresponding to an item to be input, such as one of the numbers 0 to 9, for example.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/22135

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :G06F 17/60
US CL :705/379

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)

U.S. : 235/379; 705/35, 39, 42, 43; 345/173, 174, 33

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)

Please See Extra Sheet.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,185,515 A (NISHIBE) 02 February 1993, see Figures 2 and 4, Abstract, column 1 line 61 to column 2 line 5, colum 2 lines 28-30 and 54-60, column 4 lines 15-17, column 5 lines 38-54 and column 9 lines 14-25 and 50-59.	1-33
Y	US 5,053,758 A (CORNETT ET AL.) 01 October 1991, see Figure 1, Abtract, column 1 lines 18-28 56-62, culumn 2 lines 19-34, column 2 line 67 - column 3 line 4, column 7 line 44 - 52 and column 8 lines 18 - 21.	1-33
Y,P	US 5,589,855 A (BLUMSTEIN ET AL.) 12 December 1996, See Figure 1, The Abstract, Column 1 line 53 - Column 2 line 36.	1-33

[X] Further documents are listed in the continuation of Box C. [ ] See patent family annex.

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Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer GAIL HAYES Telephone No. (703) 305-9711

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/22135

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 5,382,777 A (YUHARA ET AL.) 17 January 1995, see Figures 1 and 8, Abstract, Column 1 lines 30 - 64.	1-33
A	US 4,760,245 A (FUKAYA) 26 July 1988, see Figures 4 and 6, Abstract, Column 2 lines 10 - 60.	1-33
A	US 4,593,183 A (FUKATSU) 03 June 1986, See Figure 2, Abstract, Column 1 lines 36-69.	1-33
Y	US 5,376,947 A (KURODA) 27 December 1994, See Figure 2, Abstract, Column 1 line 43 to column 2 line 37.	1-33

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International application No.
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B. FIELDS SEARCHED
Electronic data bases consulted (Name of data base and where practicable terms used):

DIALOG (ATM, touch, screen, audio, speaker, blind, visually impaired) (business, computer and software databases);
APS (ATM, touch, blind, visually impaired) (705/35, 39, 42, 43; 235/379; 345/173, 174, 33)