

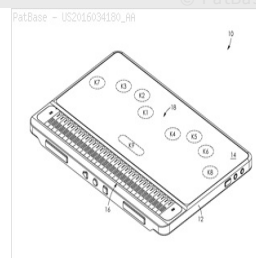
1) Family number: 61594968 (US2016034180A)

DYNAMIC CALIBRATING OF A TOUCH-SCREEN-IMPLEMENTED VIRTUAL BRAILLE KEYBOARD

Abstract: Source: US2016034180A A computer-implemented method for dynamically calibrating a virtual Braille keyboard implemented on a touch screen is provided. The virtual Braille keyboard includes a plurality of virtual keys each associated with a corresponding finger of a user and with a variable key location on the touch screen. The method includes detecting typing events, each involving one or more of the fingers of the user contacting the touch screen at corresponding touch locations and defining one or more active fingers for the typing event. The method also includes updating, in real-time, the variable key location of the virtual key associated with each active finger in view of the corresponding touch location detected during a current one of the typing events. A computer-implemented method for reinitializing a calibration of a virtual Braille keyboard for a single one of the two hands of a user is also provided.

Probable Assignee: TECHNOLOGIES HUMANWARE INC

Earliest Publication Date: 20160204



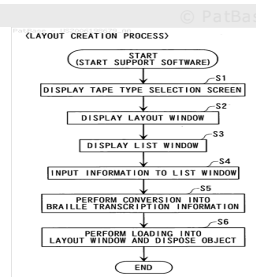
2) Family number: 33323855 (US2006198679A)

BRAILLE LAYOUT CREATION METHOD, BRAILLE LAYOUT CREATION SYSTEM, PROGRAM, AND RECORDING MEDIUM

Abstract: Source: US2006198679A A braille layout creation method includes the steps of sequentially reading information for braille embossing from a list file in which a plurality of pieces of information for braille embossing is listed, converting the read information into a braille pattern, and importing, for each reading of the information, the braille pattern into an object frame disposed in an image of a braille sheet on which a braille character is embossed.

Probable Assignee: SEIKO EPSON CORP

Earliest Publication Date: 20060906



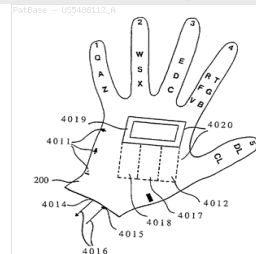
3) Family number: 13177682 (US5486112A)

AUTONOMOUS WEARABLE COMPUTING DEVICE AND METHOD OF ARTISTIC EXPRESSION USING SAME

Abstract: Source: US5486112A Educational devices using process-oriented educational methods are disclosed to prepare pre-school children, school children, and teenagers for keyboarding. The devices include sets of gloves and indicia applied to the fingers of the gloves to provide pictorial and alphanumeric representations of the computer keyboard. The visual and tactile memorization of the glove images are complemented by auditory and associative memorization provided by a story-telling educational method. Synergistic use of the gloves in the context of supervised story-telling also trains the pre-school children to develop and practise both lateral and vertical thinking skills1-2, thus preparing them for coping creatively with the inherent hardware/software limitations of computers. The memorization of the alphanumeric representation of the computer keyboard is reinforced through synergistic use of the gloves in a variety of activities including learning the alphabet, learning word-spelling, and learning languages. To best fit the psychology of teenagers, sets of picture-rings and medallion-rings are disclosed to specifically prepare that age-group for keyboarding. A process-oriented method based on the aforementioned devices is disclosed to facilitate the self-expression of children and/or help towards a more healthy communication and healing (therapy). A process-oriented method based on the aforementioned devices is disclosed to assist in the learning of the alphabet and the numbers, and in the learning of languages and scientific disciplines (arithmetic, mathematics, physics, chemistry, medical sciences, etc.). The functionality of the aforementioned devices and the efficiency of the aforementioned educational methods are enhanced through a highly integrated device disclosed under the term "keygloves" in analogy with the term "keyboard", since the "keygloves" extends the power of the "keyboard" to the very hands of the learner/user. 1 De Bono, E.: "How To Change Ideas", Seminar Cassettes, London, 1973. 2 Troudet, F.: "Can Creativity Be Taught?", Cleveland State University, Cleveland, OH, Dec. 1988.

Probable Assignee: TROUDET TERRY

Earliest Publication Date: 19940120



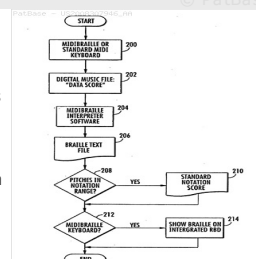
4) Family number: 35071873 (US2008307946A)

BRAILLE MUSIC SYSTEMS AND METHODS

Abstract: Source: US2008307946A Methods and systems for converting digital music scores to Braille, and vice versa and for creating Braille and digital music scores directly from music keyboard entry. The system and methods are embodied in computer programs which can extract note data from a digital score or Midi file, and correlate the note data with Braille cell data in a computer processor. A digital Braille score is created from the Braille cell data, and can be output as an embossed score, as a printed simulated Braille score or on a refreshable Braille display. The computer programs can also create digital scores from input Braille scores. Hardware components can include a music keyboard having a processor, a digital storage device and an integrated refreshable Braille display.

Probable Assignee: MACHELL LYDIA

Earliest Publication Date: 20070816

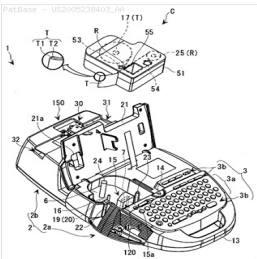


METHOD OF CONTROLLING TAPE PROCESSING APPARATUS, TAPE PROCESSING APPARATUS, AND PROGRAM

Abstract: Source: US2005238403A There is provided a method of controlling a tape processing apparatus where braille is embossed at one side in the width direction of a tape with an embossing unit arranged at the one side. The method includes: an embossing-position defining step of defining a braille embossing position in the width direction of the tape; an embossing-data generating step of generating embossing data based on input information and the embossing position; and a braille embossing step of embossing braille on the tape based on the generated embossing data. In the embossing-data generating step, when the embossing position is arranged at one side in the width direction on the same side as the embossing unit, the embossing data is generated for forward embossing. While, when the embossing position is arranged at the other side in the width direction opposite to the embossing unit, the embossing data is generated for reverse embossing.

Probable Assignee: SEIKO EPSON CORP

Earliest Publication Date: 20051027



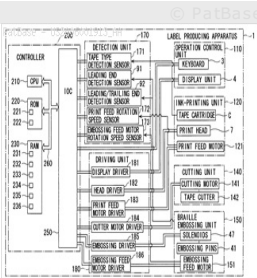
6) Family number: 32533620 (US2006001913A)

TEXTUAL INFORMATION PROCESSING APPARATUS, INFORMATION PROCESSING METHOD FOR TEXTUAL INFORMATION PROCESSING APPARATUS, PROGRAM, AND STORAGE MEDIUM ON WHICH PROGRAM IS STORED

Abstract: Source: US2006001913A A textual information processing apparatus is capable of forming an ink-printed character string and a Braille character string corresponding to input texture information in a common processing area of a tape. The ink-printed character string and/or the Braille character string can be laid out in a desired beautiful fashion. Before performing ink-printing and Braille embossing separately, the Braille embossing area length necessary for the Braille embossing is determined, and the ink-printing area length necessary for the ink-printing is set. The Braille embossing area length and the ink-printing area length are compared with each other, and a greater length is employed as the length of the common processing area.

Probable Assignee: SEIKO EPSON CORP

Earliest Publication Date: 20051221



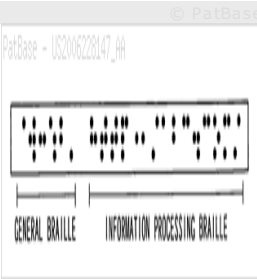
7) Family number: 33474822 (US2006228147A)

DATA PRODUCING METHOD OF DATA PRODUCING APPARATUS, DATA PRODUCING APPARATUS, AND SHEET PROCESSING APPARATUS

Abstract: Source: US2006228147A A data producing apparatus has: a first Braille translation device producing information processing Braille data for embossing information processing Braille on a processing sheet based on an ink-character array having one or more ink characters; a second Braille translation device producing general Braille data for embossing general Braille, other than the information processing Braille, on the processing sheet based on the ink-character array, thereby producing from the inputted ink-character array Braille data having the information processing Braille data and/or the general Braille data. A data producing method includes: when designation of producing part or all of the inputted ink-character array in information processing Braille is made, producing the information processing Braille data with the first Braille translation device for the designated portion; and when designation of producing in general Braille is made, producing the general Braille data with the second Braille translation device for the designated portion.

Probable Assignee: KING JIM CO LTD

Earliest Publication Date: 20061012



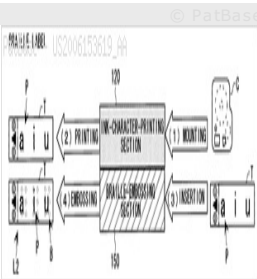
8) Family number: 33113125 (US2006153619A)

EMBOSSING CONTROL METHOD, PROGRAM, BRAILLE-EMBOSSING APPARATUS, AND CHARACTER- INFORMATION-PROCESSING APPARATUS

Abstract: Source: US2006153619A An embossing control method used in a braille-embossing apparatus includes an embossing head that embosses a braille string on a tape fed along a tape-conveying path, the braille string being embossed in an area biased to one of upper and lower sides of the tape along the width of the tape without changing the upper and lower direction of the braille string. The embossing control method includes the steps of designating the area biased to one of the upper and lower sides of the tape along the width of the tape as a braille-embossing area in which braille embossing is to be performed and embossing the braille string in the designated braille-embossing area.

Probable Assignee: KING JIM CO LTD

Earliest Publication Date: 20060712



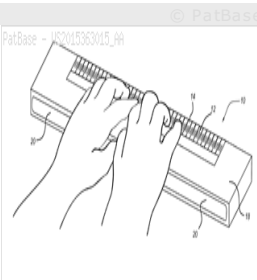
9) Family number: 61114212 (US2015363015A)

BRAILLE DISPLAY SYSTEM

Abstract: Source: US2015363015A A Braille display system can include a plurality of Braille cells; and a touch sensitive surface for providing input to the system. The Braille display system can include a plurality of modular portions, with each portion including a plurality of Braille cells. A Braille display system can include a docking station to receive one or more modules with a plurality of Braille cells.

Probable Assignee: OPTELEC HOLDING BV

Earliest Publication Date: 20151216



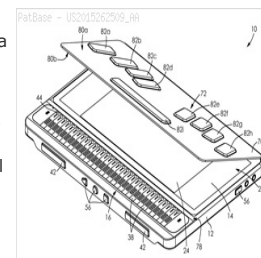
10) Family number: 60350876 (US2015262509A)

PORTABLE DEVICE WITH VIRTUAL TACTILE KEYBOARD AND REFRESHABLE BRAILLE DISPLAY

Abstract: Source: US2015262509A A single-unit portable Braille device is provided that can include a housing and a touch-sensitive surface provided on the housing and configured to implement a virtual Braille keyboard including a plurality of virtual keys each associated with a key location on the touch-sensitive surface. The virtual Braille keyboard is configured for entry of input Braille data from a user contacting the touch-sensitive surface at one or more of the key locations. The portable Braille device also includes a refreshable Braille display provided on the housing and configured for outputting output Braille data for tactile reading by the user, and a processing unit in the housing and configured to receive the input Braille data from the touch-sensitive surface and to transmit the output Braille data to the refreshable Braille display. In some implementations, the portable Braille device includes a visual display located under the touch-sensitive surface.

Probable Assignee: TECHNOLOGIES HUMANWARE INC

Earliest Publication Date: 20150917



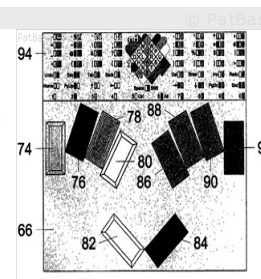
11) Family number: 23362158 (US2003067444A)

VISUALIZABLE-PRESENTED, COMPUTER-COMPATIBLE, COLOR-CODED MANUAL INPUT SYSTEM

Abstract: Source: US2003067444A A manual input system for efficient generation of inputs by entering chords comprises a keyboard (66) and input system software (68). The keyboard (66) comprises ten colored keys (74, 76, 78, 80, 82, 84, 86, 88, 90, and 92) and a legend (94) of symbols and chord representations. The keys of the keyboard (66) each have a different color and are operated by a different digit of a human operator. The legend (94) presents the assignment of chords to the symbols found on the standard computer keyboard. Chords are represented by colors and symbol groups representing the fingers involved in a chord. The legend (94) enables determination of chords by visualizing the position of symbols relative to the symbol groups. Character chords involve only fingers, while modifier chords involve only thumbs, so that each character can be combined with each modifier. Command chords also involve a thumb, so that accidental input of modified characters and commands during character input is prevented.

Probable Assignee: BINAX INC

Earliest Publication Date: 20020131



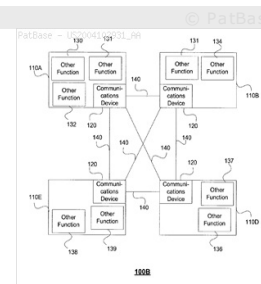
12) Family number: 23901192 (US2004102931A)

MODULAR PERSONAL NETWORK SYSTEMS AND METHODS

Abstract: Source: US2004102931A We have disclosed a modular personal network (MPN) that includes multiple devices that may be worn, carried, or used in close proximity to a user. The devices communicate wirelessly. Functions of the MPN may be modified by adding or removing components. The MPN may communicate with a personal computer. General purpose devices may include a control unit, a display, a user input, and an audio output. The MPN may provide a variety of functions, including time, communication, entertainment, organization, guidance, athletic, medical, travel, outdoors, identity, security, and military.

Probable Assignee: TECHNIKA CONEXION LLC

Earliest Publication Date: 20020829



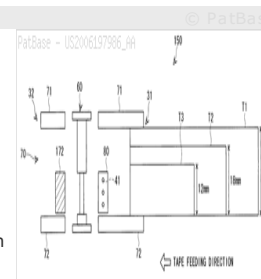
13) Family number: 33313850 (US2006197986A)

INFORMATION PROCESSING APPARATUS, INFORMATION PROCESSING METHOD AND PROGRAM

Abstract: Source: US2006197986A There is provided an information processing apparatus previewing on a display screen ink-character information and braille information which are printed and embossed on the same process sheet, the apparatus including: an ink-character previewing device for previewing the ink-character information; a braille previewing device for previewing the braille information; and a preview switching device controlling the ink-character previewing device and the braille previewing device and capable of selectively switching a display mode among a display of only the ink-character information, that of only the braille information, and that of the ink-character information and the braille information when printing and embossing operations are performed in a manner in which the ink-character information and the braille information are at least partially overlapped with each other on the process sheet.

Probable Assignee: KING JIM CO LTD

Earliest Publication Date: 20060906



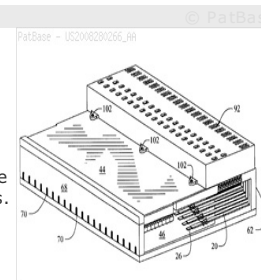
14) Family number: 41777691 (US2008280266A)

BRAILLE CELL CAP

Abstract: Source: US2008280266A An electromechanical Braille cell assembly includes a plurality of parallel bimorph reeds. A first plurality of bimorph reeds is mounted to a first side of a printed circuit board by a first plurality of clips and a second plurality of bimorph reeds is mounted to a second side of the printed circuit board by a second plurality of clips. A frame has a top wall, a bottom wall, a first side wall in the form of an angle wall and a second side wall in the form of a flat wall. Pinholes are formed in the angle wall to accommodate Braille pins and the flat wall is slotted to accommodate a plurality of printed circuit boards. A monolithic cap covers all of the Braille pins. Pinholes formed in the cap receive the respective tips of the Braille cells when actuated bimorph reeds cause displacement of the Braille pins.

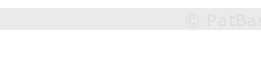
Probable Assignee: FREEDOM SCIENTIFIC INC

Earliest Publication Date: 20080506



15) Family number: 42647635 (US2008303645A)

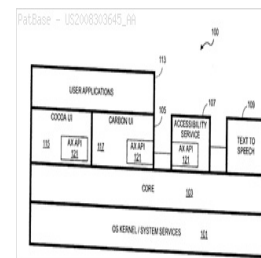
BRAILLE SUPPORT



Abstract: Source: US2008303645A Methods and apparatuses to provide improved Braille support are described herein. A connection to a Braille device is received, and a Braille caption panel that includes a Braille code is displayed to simulate an output to the Braille device. The Braille caption panel can include a text translated to the Braille code. The Braille caption panel can include a control element. An accessibility service can be automatically launched to provide the output to the Braille device.

Probable Assignee: APPLE INC

Earliest Publication Date: 20081211



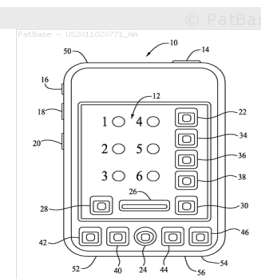
16) Family number: 48204267 (US2011020771A)

ELECTRONIC BRAILLE TYPING INTERFACE

Abstract: Source: US2011020771A A user interface system for entry of Braille input to electronic devices comprises a module with a single set of six tactile keys arranged in a 6 dot Braille configuration. The user interface system is configured to recognize data entered therein by user contact with one or more of the tactile keys as Braille input and to transmit said Braille input to an electronic device for display or further transmission. The interface further includes function keys which allow the user to manipulate, modify, or otherwise control the data entered and how the data is transmitted.

Probable Assignee: PERKINS SCHOOL FOR BLIND

Earliest Publication Date: 20110127



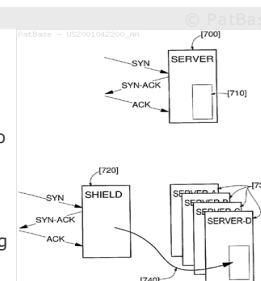
17) Family number: 27122048 (US2001042200A)

METHODS AND SYSTEMS FOR DEFEATING TCP SYN FLOODING ATTACKS

Abstract: Source: US2001042200A Methods and a system for defeating TCP SYN flooding attacks are disclosed. In a server running TCP the invention assumes that, whenever receiving a SYN message, the server computes an ISR (Initial Sequence number Receiver side) and includes it in its SYN-ACK response to the client. Then, the server, also listening for the receiving of ACK messages from clients, checks the ISR. If checking fails, ACK message is dropped. If passing checking, ISR is accepted as an authentic computed ISR and decoded accordingly. Only then, resources are allocated and a TCP connection is actually established, after which, listening state is returned to in order to keep processing all received TCP messages. Invention manages to allocate server resources to establish a TCP connection only when a client indeed completes the regular TCP 3-way handshaking procedure thus, preventing half-open connections created e.g., by DoS and DDoS attacks, from hogging server resources.

Probable Assignee: IBM

Earliest Publication Date: 20011114



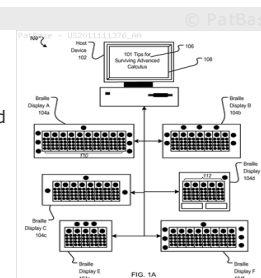
18) Family number: 48875507 (US2011111376A)

BRAILLE MIRRORING

Abstract: Source: US2011111376A Techniques for performing Braille mirroring are disclosed. In one aspect, content is converted into Braille content, and then formatted for each of a plurality of Braille displays. The formatted content is then sent to each of the Braille displays. In another aspect, data identifying a primary Braille display in a plurality of Braille displays is stored. Input requesting that a data processing apparatus perform an action is received from one of the Braille displays, and it is determined whether to perform the action, based in part on whether the requesting Braille display is the primary Braille display.

Probable Assignee: APPLE INC

Earliest Publication Date: 20110512



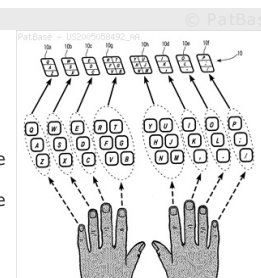
19) Family number: 32681342 (US2005058492A)

KEYBOARD AND KEYS

Abstract: Source: US2005058492A A keyboard has a single row of eight multi-position keys with the letters arranged in a standard QWERTY keyboard configuration. The eight keys correspond to the eight fingers used when touch typing; each finger operates one key, and that key contains all the letters that the finger normally accesses when touch typing on a standard QWERTY keyboard. With this design, no finger has to move to a different key while typing. When depressed at different locations on its key face, each key either moves straight down, or down while tilting slightly about one of a plurality of axes. Three-position keys have two tilt axes and six-position keys have five tilt axes. The switches utilize contacts located on the bottom of the switches which may be conductive or nonconductive.

Probable Assignee: STEVEN HIRSCH

Earliest Publication Date: 20050317



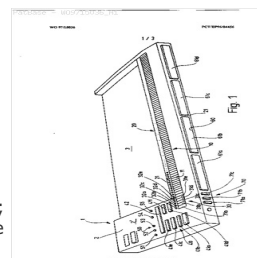
20) Family number: 18896085 (WO9715036A1)

METHOD AND DEVICE FOR THE CONTROL OF BRAILLE ELEMENTS IN A BRAILLE FIELD

Abstract: The invention relates to a device for controlling the position of Braille pins (11a-11h) of at least one Braille element (11) of a Braille field (10) which has control means (100) with a storage component (101) and a processor unit (105), which is connected to the Braille field (10) by way of a control line (110) for transmitting control signals (SB) which control the position of the Braille pins (11a-11h) of the Braille elements (11) in the Braille field (10), and which has a control keyboard (20) having a number of m function keys (21) and connected to the control means (100) by way of another control line (120) which can be used to transmit to the processor unit (105) the command signals (BE) triggered by actuation of at least one of the m function keys (21) of the control keyboard (20). The invention provides that a number of s command sets can be stored in the storage component (101) of the control means (100) and are used to allocate a defined key assignment to each ms of the m function keys (21) of the control keyboard (20); that the device (1) has a selection keyboard (40) with at least one selection key (41-41e; 42); that a command signal (BA) transmittable to the processor unit (105) can be produced by actuating at least one of the selection keys (41a-41e; 42) and the command signal can be used to load the command set which is allocated to the actuated selection key(s) (41a-41f; 42) of the selection keyboard (40) with the result that a command signal (BS, BA) triggered by actuation of at least one of the m function keys (21) of the control keyboard (20) initiates the execution of the function, currently correlated with the actuated function key (21), of the particular one, loaded in the processor unit (105), of the ms command sets stored in the storage component (101), and that the processor unit (105) produces a control signal for the Braille pins (11a-11h) of at least one of the Braille elements (11) in the Braille field (10), which signal is correlated with the result of the function execution thus initiated.

Probable Assignee: KTS KOMMUNIKATIONSTECHNIK FUER BLINDE UND SEHBEHIN

Earliest Publication Date: 19970424



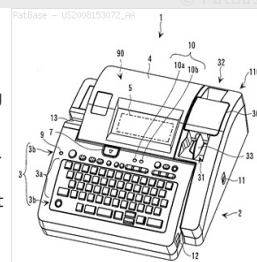
21) Family number: 41952569 (US2008153072A)

BRAILLE-INFORMATION PROCESSING APPARATUS, METHOD OF CONTROLLING BRAILLE-INFORMATION PROCESSING APPARATUS, AND BRAILLE FORMING APPARATUS

Abstract: Source: US2008153072A A braille-information processing apparatus includes: a braille pattern converting device that converts input character information into a braille pattern based on a first grade braille description processing rule or a second grade braille description processing rule; and an input environment setting device that sets an input environment to a first grade braille mode based on the first grade braille description processing rule or a second grade braille mode based on the second grade braille description processing rule, wherein the braille pattern converting device converts the input character information into a first grade braille pattern based on the first grade braille description processing rule when the input environment is set to the first grade braille mode, and converts the input character information into a second grade braille pattern based on the second grade braille description processing rule when the input environment is set to the second grade braille mode.

Probable Assignee: SEIKO EPSON CORP

Earliest Publication Date: 20080626



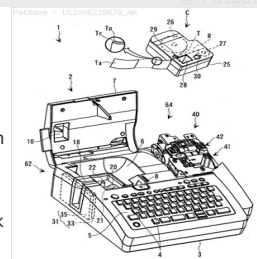
22) Family number: 33475064 (US2006228678A)

DATA DISPLAY METHOD OF DATA DISPLAY APPARATUS, DATA DISPLAY APPARATUS, DATA GENERATION APPARATUS HAVING THE SAME, AND SHEET PROCESSING APPARATUS

Abstract: Source: US2006228678A A data display method of a data display apparatus includes displaying a cursor for scrolling the preview display on an input character display region having an ink character region and a Braille character region while moving the displayed cursor; and previewing the label image on the basis of a cursor position of the cursor. The previewing of the label image previews the label image to display an image of the ink character indicated by the cursor positioned in a predetermined position of the preview region when the cursor is positioned on the ink character notation, and previews the label image to display an image of the Braille characters indicated by the cursor or an image of the Braille character corresponding to a translation of the Braille characters into the ink characters positioned in a predetermined position of the preview region when the cursor is positioned on the Braille character notation.

Probable Assignee: SEIKO EPSON CORP

Earliest Publication Date: 20061012



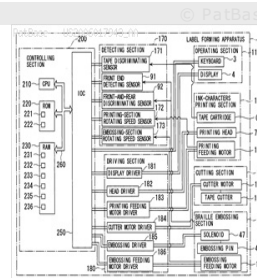
23) Family number: 32577109 (US2006017943A)

CHARACTER-INFORMATION PROCESSING METHOD, CHARACTER-INFORMATION PROCESSING APPARATUS, PROGRAM, AND STORAGE MEDIUM

Abstract: Source: US2006017943A In a character-information processing method, a candidate alternative having relative positional information including at least the front-and-rear relation of ink-characters and braille, which are printed and embossed, respectively, on the same sheet, is stored as one of those alternatives for setting margins capable of being set as margins of the Braille. When the candidate alternative is selected from among those alternatives for margins, the ink characters and the braille are arranged based on the relative positional information.

Probable Assignee: SEIKO EPSON CORP

Earliest Publication Date: 20060125

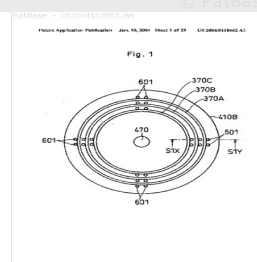


24) Family number: 42256082 (US2004110562A)

TACTILE PIN HOLDING APPARATUS, TACTILE PIN DISPLAY APPARATUS AND BRAILLE DISPLAY MEMBER

Abstract: Source: US2004110562A Rotational member (310) with plural tactile pins (301) movable up-and-down for displaying characters is rotated by rotation driving means. Elastic O-rings (370) are provided in the rotational member (310) for pressing and holding the pins (301). Actuators (320) brought to contact the pins (301) are provided nearby the rotational member (310) for positioning the pins (301) at desired heights from a tactile surface. Cam (330) brought to contact with the pins (301) is provided also nearby the rotational member (310) for positioning the pins (301) at the reset position or height. Furthermore, selectively actuating means is provided for selectively actuating the actuators (320). Owing to such arrangement, a continuous tactile pin display apparatus can be reduced in size, weight and cost. By providing at least the pins (301) or the rotational member (310) with a photocatalyst, it becomes possible to decompose contaminants, such as bacteria, sweat, oil of the hand and food particles, deposited on the pins or their peripheral portions.

Probable Assignee: ASKK CO LTD



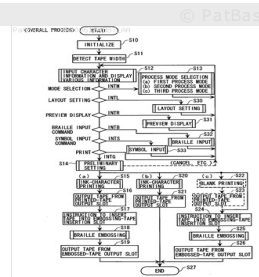
Earliest Publication Date: 20040610
25) Family number: 33084399 (US2006134587A)

APPARATUS AND METHOD FOR PROCESSING BRAILLE INFORMATION, PROCESS SHEET, PROGRAM, AND STORAGE MEDIUM

Abstract: Source: US2006134587A A braille-information-processing apparatus includes a sign-storing device that stores a plurality of kinds of signs for sighted people, the signs being classified into a plurality of categories in accordance with the use of the signs and stored in association with the corresponding categories, a braille-information-storing device that stores braille information of a braille string representing a common expression that corresponds to each sign in each category, the braille information being stored in association with the corresponding sign and category, a sign-selecting device that selects one of the categories and one of the signs belonging to the selected category, and a presenting device that presents the braille information corresponding to the selected sign.

Probable Assignee: SEIKO EPSON CORP

Earliest Publication Date: 20060622



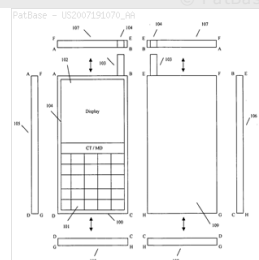
26) Family number: 29478712 (US2007191070A)

RECONFIGURABLE MOBILE DEVICE INTERFACES SUPPORTING AUTHENTICATED HIGH-QUALITY VIDEO, AUDIO, TV AND MULTIMEDIA SERVICES

Abstract: Source: US2007191070A A method and apparatus for reconfiguring the audio and video interfaces of mobile devices is described. A system for configuring various surfaces of a mobile device for performing additional functions such as utilizing the front and reverse side of a mobile device with reconfigurable larger displays for enhancing the visual experience for various applications such as in video, TV and medical imaging is described. A system for command and control of a media center with a mobile device is disclosed. A method for multi-channel processing of audio and video information over mobile devices is described. A method for biometrically authorizing and delivering of copy right content to mobile devices is disclosed.

Probable Assignee: SMART MOBILE INC

Earliest Publication Date: 20010102



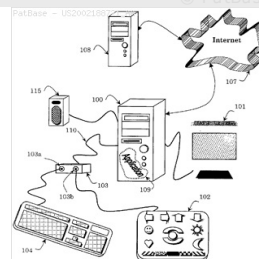
27) Family number: 28290036 (US2002188721A)

DEDICATED KEYBOARD NAVIGATION SYSTEM AND METHOD

Abstract: Source: US2002188721A A system for the secure access of individuals belonging to a community to Internet resources, comprising a dedicated keyboard provided with an identification means suitable to identify it when accessing a web site, and an automatic URL calling means suitable to force a browser coupled with said keyboard to open a web page the URL of which is supplied by said keyboard, the system further comprise one or more web pages the access from which is limited to specific predetermined web pages, the access to the World Wide Web from such pages being precluded.

Probable Assignee: COMFYWARE LTD

Earliest Publication Date: 20021121



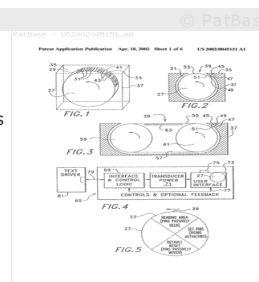
28) Family number: 22439632 (US2002045151A)

APPARATUS AND METHOD UTILIZING BI-DIRECTIONAL RELATIVE MOVEMENT FOR REFRESHABLE TACTILE DISPLAY

Abstract: Source: US2002045151A A refreshable Braille reader apparatus and method are disclosed, the apparatus preferably utilizing a rotating cylinder having endless rows of openings defined therethrough to a display surface with a pin held in each opening and freely movable therein. Static actuators at least equal in number to the rows of openings through the cylinder are maintained at a station adjacent to the surface of the cylinder, and are configured and positioned so that the pins are selectively contactable at either of their ends by different ones of the actuators during cylinder rotation in either forward or reverse direction thereby selectively positioning first ends of the pins relative to the surface of the cylinder to allow streaming of Braille text across a display area in either forward or backward order depending upon selected direction of cylinder rotation.

Probable Assignee: USA

Earliest Publication Date: 20020418



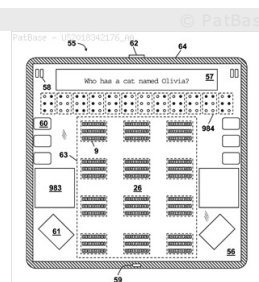
29) Family number: 72078016 (US2018342176A)

SELF-SCROLLING BRAILLE

Abstract: Source: US2018342176A Electronically displayed Braille dots are laterally propagated against a stationary finger resting on a stationary base for reading Braille. The lateral propagation takes the form of a transverse wave of pins which are raised and lowered in sequence. The reading can be synchronized with other processes or events under computer controls. A Braille display is provided employing electrowetting forces to control the sequential raising and lowering of the pins. Using layer-based manufacturing, the display is sized to a finger-worn device. A method of interactive reading is provided whereby the reading of Braille from the display is computer-synchronized with other events and processes to help users learn Braille, to monitor physiological responses to reading, and to enhance a user's reading experience. A children's Braille tablet is also provided.

Probable Assignee: CALIFORRNIAA EURICA

Earliest Publication Date: 20181129



30) Family number: 60908000 (US2016170500A)

METHOD OF GENERATING SYMBOLS FROM A CHORDING KEYBOARD

Abstract: Source: US2016170500A A method of generating symbols from a chording keyboard is described. A unique feature of this method is accepting a sequence of chords from the keyboard without either an intervening chord or a requirement that all keys be released between chords. Another unique feature is that the chord map is independent of chords before or after a particular chord, for a particular symbol. That is, a user need only memorize one chord for each symbol, and then may transition directly from exactly that chord to any other chord. There are no special transition requirements. The number of keys on a keyboard for this method may be 4 to 10, inclusive. Such a keyboard may be operated with one hand. Specific attributes of embodiments or chord tables are described.

Probable Assignee: BENGLER AS

Earliest Publication Date: 20151126



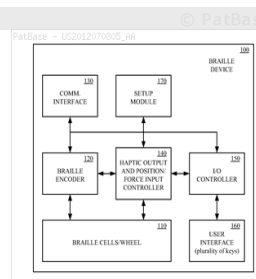
31) Family number: 50805619 (US2012070805A)

TEXT-TO-TOUCH TECHNIQUES

Abstract: Source: US2012070805A Text-to-touch techniques, in accordance with embodiment of the present technology, include apparatuses and methods for receiving content including textual portions and non-textual portions. The textual portions include letters, select words, numbers and punctuation having recognized Braille codes. The non-textual portions may include metadata, graphics, formatting, decorations, hyperlinks, radio buttons, submit buttons, check boxes, windows, icons, fields and/or the like. The systems and methods convert the textual portion to Braille codes and select non-textual portions to haptic feedback. The Braille code may then be output to a user. In addition, the haptic feedback associated with various Braille codes may also be output to the user along the associated Braille codes.

Probable Assignee: SONY CORP

Earliest Publication Date: 20120322



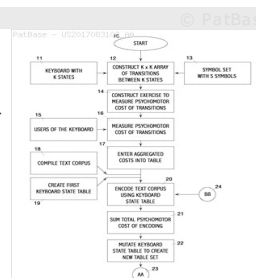
32) Family number: 60908001 (US2017083108A)

METHOD OF CREATING A CHORDING KEYBOARD MAPPING TABLE

Abstract: Source: US2017083108A A method of creating a chording keyboard mapping table is described. An exercise is created that is performed by users of a keyboard for which a mapping table is desired. The psychomotor performance of the users' transitions between chords is recorded-as distinct from performance relating to chords. A first trial keyboard mapping table (from chords to symbols) is created, and the effectiveness of that table is measured by applying it to a text corpus and measuring the total psychomotor cost to enter that corpus with that table. The table is then permuted, and the cost recomputed. Trial tables are repeatedly permuted, with one or more preferred tables being used as the basis for the next iteration of permutations. This continues until a terminating event, such as minimal improvement, is reached. Variations as embodiments are described. Software to implement the method is claimed.

Probable Assignee: BENGLER AS

Earliest Publication Date: 20151126



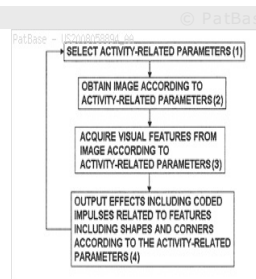
33) Family number: 33611870 (US2008058894A)

AUDIOTACTILE VISION SUBSTITUTION SYSTEM

Abstract: Source: US2008058894A One embodiment a vision substitution system for communicating audio and tactile representations of features within visual representations includes selecting (1) activity-related parameters; obtaining (2) images or other visual representations according to the activity-related parameters; acquiring (3) features including shapes and corners related to the visual representations according to the activity-related parameters; and outputting (4) effects related to the features on audio and/or tactile displays according to the activity-related parameters. The corners of shapes and other lineal features are emphasized via special audio and tactile effects while apparently-moving effects trace out perimeters and/or shapes. Coded impulse effects communicate categorical visual information. Special speech and braille codes can communicate encoded categorical properties and the arrangements of properties.

Probable Assignee: DEWHURST DAVID C

Earliest Publication Date: 20080305



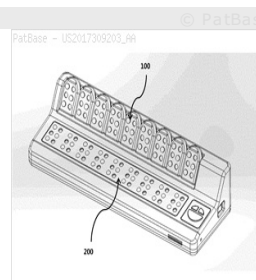
34) Family number: 67317660 (US2017309203A)

BRaille LEARNING APPARATUS AND BRaille LEARNING METHOD USING THE SAME

Abstract: Source: US2017309203A A braille learning apparatus includes a plurality of slave blocks for receiving braille from a learner, and a master station configured to: receive braille learning information from an external braille learning information terminal, when slave blocks corresponding to a specific braille inputted by the learner are mounted, determine whether the specific braille inputted to the slave blocks match a learning word, and transmit a determination result to the external braille learning information terminal.

Probable Assignee: OHFA TECH INC

Earliest Publication Date: 20171026



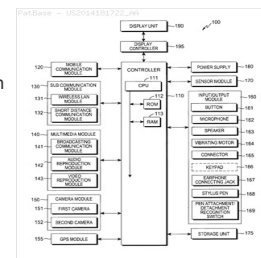
35) Family number: 56771993 (US2014181722A)

INPUT METHOD, TERMINAL APPARATUS APPLYING INPUT METHOD, AND COMPUTER-READABLE STORAGE MEDIUM STORING PROGRAM PERFORMING THE SAME

Abstract: Source: US2014181722A An input method usable by a terminal including a touch screen display, identifies first touch input locations on a touch screen. The first touch input locations comprise a predetermined number of concurrent multiple touches. A predetermined number of input buttons comprising a predetermined number of areas on the touch screen are associated with corresponding identified first touch input locations. A touch pattern is detected comprising a second touch input of one or more of the predetermined number of input buttons and an alphanumeric input corresponding to the detected touch pattern is processed.

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Earliest Publication Date: 20140625



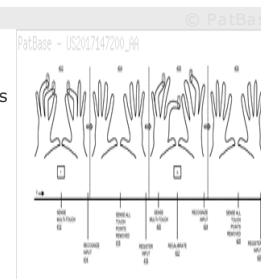
36) Family number: 65759653 (US2017147200A)

BRAILLE DATA ENTRY USING CONTINUOUS CONTACT VIRTUAL KEYBOARD

Abstract: Source: US2017147200A A first touch gesture is sensed at a subset of a set of six Braille dot touch points at a virtual Braille keyboard. The first touch gesture corresponds to a Braille character. A second touch gesture is sensed that concurrently touches each of the six Braille dot touch points in the set of Braille dot touch points. A contact with a layout of the virtual Braille keyboard with at least one Braille dot touch point is continuously maintained while transitioning from the first touch gesture to the second touch gesture. In response to the second touch gesture, the Braille character is accepted.

Probable Assignee: IBM

Earliest Publication Date: 20170525



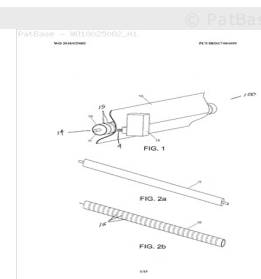
37) Family number: 68505748 (WO18025082A1)

BRAILLE PRINTERS AND METHODS OF MAKING AND USING THE SAME

Abstract: Improved Braille printers and Braille printer components for embossing Braille characters onto a paper substrate are disclosed. Methods of making using Braille printers and Braille printer components to form Braille characters on a paper substrate are also disclosed.

Probable Assignee: RAI KHUSHWANT

Earliest Publication Date: 20180208



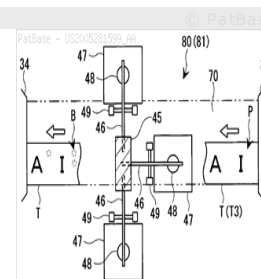
38) Family number: 32508238 (US2005281599A)

PRINT PROCESSING METHOD OF PRINTING-AND-EMBOSSING COMPOSITE APPARATUS, PRINTING-AND-EMBOSSING COMPOSITE APPARATUS, AND PROGRAM

Abstract: Source: US2005281599A A print processing method of a printing-and-embossing composite apparatus in which ink-characters printing and braille embossing are performed on the same object based on inputted character information, wherein, in cases where the ink-characters printing and the braille embossing are performed on the same object in a superposed state, and a character size for use in the ink-characters printing is set equal to or less than a given size, the ink-characters printing is barred.

Probable Assignee: SEIKO EPSON CORP

Earliest Publication Date: 20051221



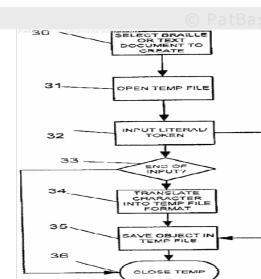
39) Family number: 28259944 (US2002138521A)

RELATING TO BRAILLE EQUIPMENT

Abstract: Source: US2002138521A A apparatus and method are provided which assist the use of electronic documents in both a word processor (17) and Braille environment (16). The apparatus and methods facilitate conversion of electronic documents between various formats for subsequent use on word processor equipment (15) and Braille equipment (10) as required. The translation utilizes a temporary file (90, 91) in an intermediary format which retains formatting information relating the manner in which the document should be rendered in each environment (16, 17). The transfer of electronic documents is transparent to the user in a manner that it appears only one document is being worked with.

Probable Assignee: TECHNOLOGIES HUMANWARE INC

Earliest Publication Date: 20020926



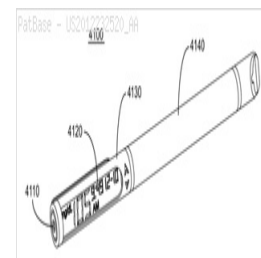
40) Family number: 51911913 (US2012232520A)

MULTI-FUNCTION ANALYTE MONITOR DEVICE AND METHODS OF USE

Abstract: Source: US2012232520A Methods, systems and devices for detecting an analyte sample, determining an analyte concentration associated with the detected analyte sample, storing the determined analyte concentration and a time associated with the determined analyte concentration, retrieving two or more stored analyte concentrations, and determining an adjusted dose level based at least in part on a current dose level and data associated with the two or more retrieved analyte concentrations are provided. For example, adjustments to dosage levels of long-acting insulin may be provided to assist in the management of diabetes and related conditions.

Probable Assignee: ABBOTT DIABETES CARE INC

Earliest Publication Date: 20120913



41) Family number: 67530697 (IN06236CH2015A)

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A SYSTEM AND METHOD FOR CONVERTING STANDARD KEYBOARD SCAN CODES INTO MULTILINGUAL UNICODE OUTPUT (LIPI-CON)

Abstract: Source: IN06236CH2015A The present invention provides a multilingual alphanumeric Unicode generator - attachable or integrally unified unit on the keyboard hardware, that converts the keyboard scan codes into a multilingual Unicode-Standard compliant output without requiring any change in the background functionality of the standard keyboard. The system comprises a scan code converter connected externally to the keyboard and the Operating System (OS)/application of the computing system. The scan code converter receives scan code signals from the keyboard and user inputs such as desired language, OS, and keyboard type from the user. The scan code converter remaps the scan code signals of the keyboard with a user selected language appropriate Unicode output. Finally, the scan code converter sends the Unicode output to the OS/application of the computing system which displays the text on the computer screen.

Probable Assignee: BEVOOR VENKATAKRISHNA SASTRY VENKATESH

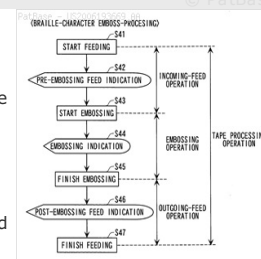
Earliest Publication Date: 20171117

42) Family number: 33291859 (US2006193669A)

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METHOD OF CONTROLLING TAPE PROCESSING APPARATUS, APPARATUS FOR PROCESSING TAPE, AND PROGRAM

Abstract: Source: US2006193669A A method controls a tape processing apparatus which performs, on a tape to be sent from a tape inlet to a tape outlet along a tape travel passage through an embossing section, a series of tape processing operations of incoming-feed operation to feed the tape from the tape inlet to the embossing section, embossing operation in the embossing section, and of outgoing-feed operation to feed the tape from the embossing section to the tape outlet in an order as mentioned above, and which also indicates in an indicator that the apparatus is in the tape processing operations. The method indicates in the indicator a pre-embossing feed indication to indicate the incoming-feed operation and a post-embossing feed indication to indicate the outgoing-feed operation in an indicating mode which is different from an embossing indication to indicate that the apparatus is in the embossing operation.



Probable Assignee: SEIKO EPSON CORP

Earliest Publication Date: 20060830

43) Family number: 32019547 (US2005133608A)

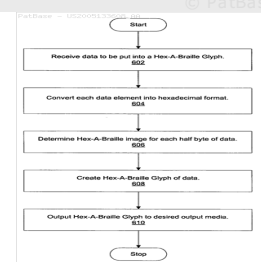
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DATA GLYPH FORMAT

Abstract: Source: US2005133608A A data glyph and method, system, and computer program product for creating and reading the data glyph is provided. In one embodiment the data glyph is created by combining individual glyph elements, wherein each glyph element is selected from a list of glyph elements corresponding to one of each of the hexadecimal numerals 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, A, B, C, D, E, and F. Each glyph element is made from darkening a unique subset of cells from an array of allowable cells.

Probable Assignee: HEWLETT PACKARD DEVELOPMENT CO LP

Earliest Publication Date: 20050623

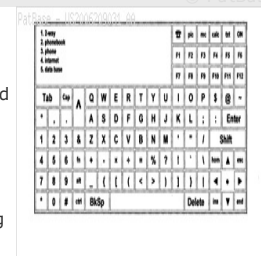


44) Family number: 33367924 (US2006209031A)

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HAND HELD COMMUNICATIONS COMPUTER AND KEYBOARD

Abstract: Source: US2006209031A A portable hand held communications computer terminal with data, audio and video communications capabilities using a rearranged QWERTY keyboard for the visually impaired, mobility impaired and the masses designed for one finger operation. The portable hand held computer terminal includes a microprocessor, a battery and standard plug type connection for powering the microprocessor, a rearranged QWERTY keyboard and a data input system for entering data into the microprocessor, a display screen and data output circuit for displaying data from the microprocessor, a data storage circuit for storing data converted to and from the microprocessor, a plurality of control keys for operating in a plurality of modes, an internal microphone and audio storage circuit, a connection for an external microphone and speaker for listening, recording, transmitting and storing audio data, an optical recording device and video storage circuit for recording, storing and transmitting visual data, an antennae and a means for wirelessly transmitting and receiving data to and from an external source, and a plurality of connection ports for transmitting and receiving data. The device can also include a bar code reader and means for scanning bar code data from an external source, an infrared data port and means for transmitting and receiving infrared data or any other type of data port for increasing the usability and compatibility of the device. A securing strap or snug fitting sleeve attached on the bottom of the device is used for attaching the device to an appendage for portability and ease of use.



Probable Assignee: BURRELL IV JAMES W

Earliest Publication Date: 20060921

45) Family number: 65499436 (US2017116884A)

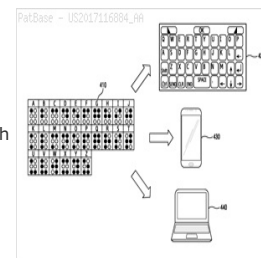
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METHOD FOR PROVIDING INFORMATION AND ELECTRONIC DEVICE SUPPORTING THE SAME

Abstract: Source: US2017116884A A method for providing information and an electronic device supporting the same are provided. The electronic device includes a communication interface including communication circuitry configured to receive information from an external device, and a processor. The processor is configured to output a haptic effect for at least one Braille key among a plurality of Braille keys, based on the information received through the communication interface.

Probable Assignee: SAMSUNG ELECTRONICS CO LTD

Earliest Publication Date: 20170427



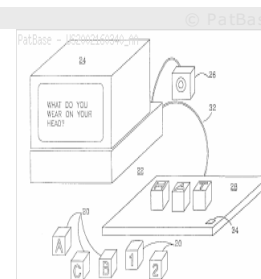
46) Family number: 28265982 (US2002160340A)

CHARACTER RECOGNITION EDUCATIONAL SYSTEM

Abstract: Source: US2002160340A A system where a child or other individual arranges one or more computer-recognizable characters on a working platform to spell words or provide a mathematical result in response to computer generated questions or prompts, the system then indicating whether the words or mathematical result is correct.

Probable Assignee: TINKERS AND CHANCE

Earliest Publication Date: 19981020



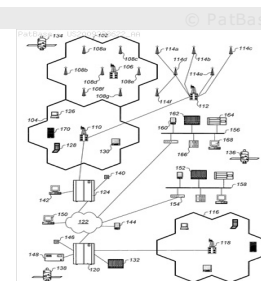
47) Family number: 43749856 (US2009233622A)

SYSTEM AND METHOD FOR LOCATION BASED EXCHANGES OF DATA FACILITATING DISTRIBUTED LOCATIONAL APPLICATIONS

Abstract: Source: US2009233622A Provided is a distributed system and method for enabling new and useful location dependent features and functionality to mobile data processing systems. Mobile data processing systems interact with each other as peers in communications and interoperability. Indirectly located mobile data processing systems are located relative other mobile data processing systems, and are automatically located using whereabouts data of directly located mobile data processing systems and/or whereabouts data of other indirectly located mobile data processing systems. A mobile data processing system may dynamically take on roles of being directly located or indirectly located, depending on the environment and capabilities available at a particular time. Reference whereabouts data is appropriately shared between mobile data processing systems to carry out automatic location techniques ensuring mobile data processing systems are kept up to date with their own whereabouts and whereabouts of others, regardless of the freely moving travels of any of the mobile data processing systems involved, and the location technologies that may or may not be available when needed. A confidence is associated to whereabouts data shared for facilitating selection of the best candidate data used in determining new whereabouts information.

Probable Assignee: BILLJCO LLC

Earliest Publication Date: 20090917



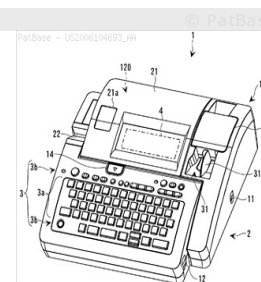
48) Family number: 33004141 (US2006104693A)

BRAILLE-INFORMATION PROCESSING APPARATUS, BRAILLE-INFORMATION PROCESSING METHOD, PROGRAM, AND STORAGE MEDIUM

Abstract: Source: US2006104693A There is provided a braille-information processing apparatus capable of performing, on a display screen, an edit display for editing braille information for braille embossing and a preview display for displaying an embossing image for the braille embossing. As the edit display, displayed is a cell mark including a non-embossing point mark indicative of a non-embossing point in each braille cell and an embossing point mark indicative of an embossing point, the embossing point mark being different in shape from the non-embossing point mark. As the preview display, displayed is an image of only the embossing point out of the non-embossing point and the embossing point.

Probable Assignee: KING JIM CO LTD

Earliest Publication Date: 20060518



49) Family number: 60682472 (US2015310762A)

METHODS, SYSTEMS, AND APPARATUSES TO CONVEY CHORDED INPUT

Abstract: Source: US2015310762A Disclosed herein are methods, systems, computer readable media, and apparatuses for conveying chorde input to a user. Chorde input can be conveyed by one or more sequences of stimulation events, wherein each sequence represents a particular chorde input.

Probable Assignee: GEORGIA TECH RESEARCH CORP

Earliest Publication Date: 20151029



50) Family number: 29996312 (US2003122689A)

NAVIGATION AID FOR REFRESHABLE BRAILLE DISPLAY AND OTHER TEXT PRODUCTS FOR THE VISION IMPAIRED

Abstract: Source: US2003122689A A navigation aid for a refreshable Braille display and similar products for the visually impaired. A navigation wheel is located adjacent at least one end of the refreshable Braille display. Rotation of the wheel by an increment moves the displayed text forward or backward by a predetermined increment, such as by one word, or one line or one paragraph. In a preferred embodiment, the function performed by rotating the wheel can be changed by depressing the wheel. A separate navigation wheel may be located at opposite ends of the refreshable Braille display and the two navigation wheels may perform the same or different functions when rotated.

Probable Assignee: FREEDOM SCIENTIFIC INC

Earliest Publication Date: 20030226

