

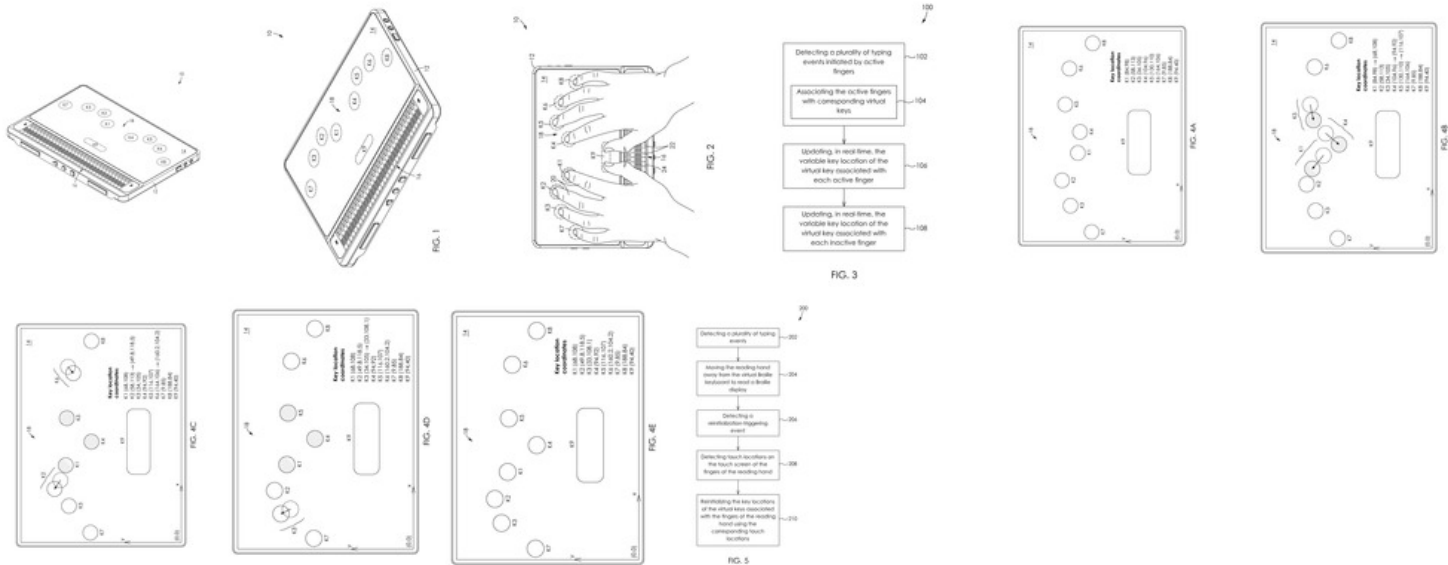
4 results for (braille and perkins and keyboard and spacebar)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX - Collection: FAMPAT

| #  | Title                                                                               | Publication number | 1st App. date | Applicant/Assignee     | 1st Publ. date | Publ. date |
|----|-------------------------------------------------------------------------------------|--------------------|---------------|------------------------|----------------|------------|
| 1. | <a href="#">Cubreteclado that adapts the computer keyboard to write in braille.</a> | ES2413180          | 2010-05-26    | UNIVERSIDAD DE ALCALA* | 2013-07-15     | 2013-07-15 |

Cubreteclado that adapts the computer **keyboard** to write in **braille**. It is trained by a housing (9) that hides to the letters and the numbers of the alphanumeric **keyboard**, six or eight bellboys (10) supported on the suitable bellboys of the **keyboard**, and elements of subsection (11) to maintain the cubreteclado one in the suitable position. It is possible to be adapted for being used on different types from **keyboard**. It Allows to use all the functions of the **keyboard** that correspond with the keys noncovered, only replacing the alphanumeric part of the **keyboard**. It Allows the user to write in **Braille** in any computer with the cubreteclado one, without having to use another specific peripheral device. **Braille** can be used with applications that are controlled with the **keyboard**, or with an own application (WriteBraille) that facilitates the writing, for example, to children that needs to abstract the **keyboard** or with problems to press the keys simultaneously.

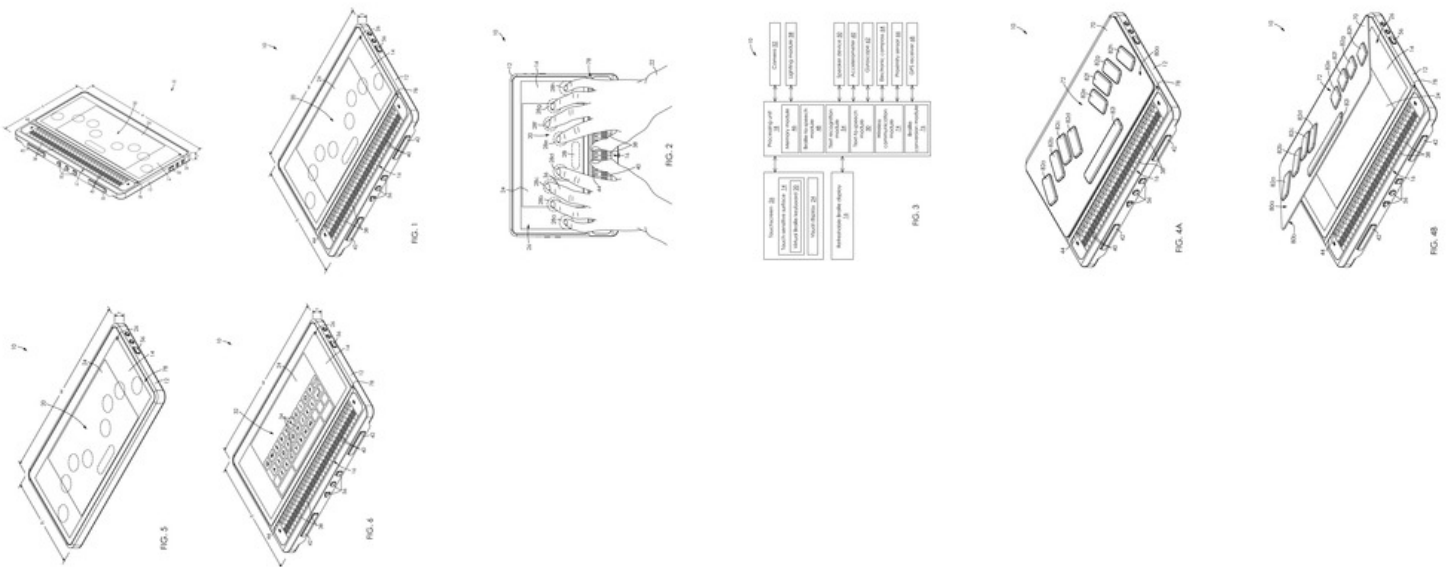
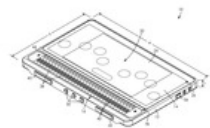
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|----|--------------------------------------------------------------------------------------------|--------------|------------|--------------------------------------------------|------------|------------|
| 2. | <a href="#">Dynamic calibrating of a touch-screen-implemented virtual braille keyboard</a> | US2016034180 | 2015-06-29 | ESSILOR INTERNATIONAL*<br>TECHNOLOGIES HUMANWARE | 2016-02-04 | 2016-02-04 |
|----|--------------------------------------------------------------------------------------------|--------------|------------|--------------------------------------------------|------------|------------|

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.



|    |                                                                                               |              |            |                         |            |            |
|----|-----------------------------------------------------------------------------------------------|--------------|------------|-------------------------|------------|------------|
| 3. | <a href="#">Portable device with virtual tactile keyboard and refreshable braille display</a> | US2015262509 | 2015-03-10 | TECHNOLOGIES HUMANWARE* | 2015-09-17 | 2015-09-17 |
|----|-----------------------------------------------------------------------------------------------|--------------|------------|-------------------------|------------|------------|

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.



The present invention relates to an infotainment system for interactive **braille** learning. The system provides a multimodal interaction environment such as audio, tactile and visual outputs to a user. The system comprises of a central processor for controlling all the function such as mode of operation and communication between the different peripherals to the processor. The system comprise of a memory for storing a method for operating a LCD display for visual output, a refreshable **braille** display for tactile output, a speaker for audio output, a 9-key style **braille keyboard** as input peripheral for active **braille** learning and one or more connection to the input/output peripherals. The system provides tutorials in the form of interactive language and games for learning spellings, word formation and sentence formation.

