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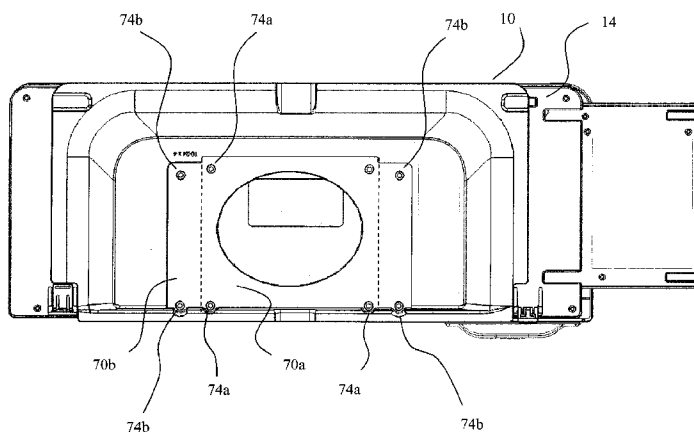
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Bottom View

Figure 1

(57) Abstract: There is provided A keyboard-keyboard support combination comprising: a keyboard including a keyboard housing; a keyboard support including a support surface, wherein the support surface is configured for supporting the keyboard; an engagement tab projecting from one of the keyboard and the keyboard support; and an engagement surface provided on the other one of the keyboard and the keyboard support; wherein the engagement tab is configured to co-operate with the engagement surface so that the engagement surface opposes movement of the engagement tab relative to the keyboard support when the keyboard is supported on the keyboard support.

WO 2008/128327 A1

## KEYBOARD SUPPORT

### FIELD OF THE INVENTION

[0001] The present invention relates to keyboards and keyboard support devices.

### BACKGROUND OF THE INVENTION

[0002] Existing keyboard trays are provided to support keyboard devices at workstations. However, the design of existing keyboard designs do not facilitate ergonomically favourable conditions for using keyboards.

### SUMMARY OF THE INVENTION

[0003] In one aspect there is provided a keyboard-keyboard support combination comprising: a keyboard including a keyboard housing; a keyboard support including a support surface, wherein the support surface is configured for supporting the keyboard; an engagement tab projecting from one of the keyboard and the keyboard support; and an engagement surface provided on the other one of the keyboard and the keyboard support; wherein the engagement tab is configured to co-operate with the engagement surface so that the engagement surface opposes movement of the engagement tab relative to the keyboard support when the keyboard is supported on the keyboard support.

[0004] In a further aspect there is provided a keyboard – keyboard support combination comprising: a keyboard; and a keyboard support; wherein the keyboard is configured to be coupled to the keyboard support by way of snap-fit engagement.

[0005] In a further aspect there is provided a keyboard comprising: a key section including a plurality of data input keys; a mousepad section including a mousepad surface; and a mouse retainer disposed peripherally relative to the mousepad surface; such that, when a mouse device is disposed on a portion of the mousepad surface, and the portion of the mousepad surface is substantially horizontal, and the keyboard is then re-positioned so that the portion of the mousepad surface becomes disposed at a sufficient angle relative to the

horizontal such that gravitational force effects movement of the mouse device, the mouse device is prevented from sliding off the keyboard by the mouse retainer.

[0006] In a further aspect there is provided a keyboard-keyboard support combination, wherein the keyboard is supported by the keyboard support, comprising: a QWERTY key area including at least 50 keys; and a mousepad surface; wherein the maximum width of the keyboard support is less than about 19 inches.

[0007] In a further aspect there is provided a keyboard support configured for receiving and attaching to a mounting plate of a mounting plate of a keyboard mounting mechanism, comprising a recessed mounting surface corresponding to the mounting plate of the keyboard mounting mechanism, wherein the recessed mounting surface is configured to receive the mounting plate and effect coupling of the mounting plate to the mounting surface.

[0008] In a further aspect there is provided a workstation assembly comprising: a workstation; a keyboard support coupled to the workstation; a keyboard including a housing, wherein the keyboard is supported by and coupled to the keyboard support such that lateral movement of the keyboard housing relative to the keyboard support is thereby opposed, and further including: a QWERTY key arrangement including at least 50 keys; and a mousepad surface; wherein the minimum horizontal distance between: (i) the space between the "G" and "H" keys, and (ii) a vertical plane tangent to an edge of the mousepad surface closest to the key, is from about 5 inches to about 10 inches.

[0009] In a further aspect there is provided a keyboard support comprising: a plastic support assembly, including a support surface configured for supporting a keyboard; a ballast assembly including at least one ballast, wherein each of the one ballast is coupled to the plastic support assembly, wherein the keyboard support includes at least 25 weight percent of the at least one ballast based on the total weight of the keyboard support; and wherein the ballast assembly is provided to contribute additional weight to the keyboard support.

[0010] In a further aspect there is provided a A keyboard –keyboard support combination comprising: a keyboard support; a keyboard supported on the keyboard support;

wherein the maximum thickness of the combination of the keyboard and the keyboard support is less than about 2 inches.

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

[0011] Figure 1 is a bottom plan view of an embodiment of a combination of a keyboard coupled to a keyboard support;

[0012] Figure 2 is a front elevation view of the keyboard support illustrated in Figure 1;

[0013] Figure 3 is a side elevation view of the keyboard support illustrated in Figure 1;

[0014] Figure 4 is a fragmentary bottom front perspective view of the keyboard support illustrated in Figure 1;

[0015] Figure 5 is a top plan view of the keyboard support illustrated in Figure 1;

[0016] Figure 6 is a fragmentary top front perspective view of the keyboard support illustrated in Figure 1, illustrating a rear section of the keyboard support including a retaining tab;

[0017] Figure 7 is a fragmentary top rear perspective view of the combination illustrated in Figure 1, illustrating the coupling of the retaining tab, more particularly illustrated in Figure 6, to a keyboard, and illustrating an engagement tab received within a receiving well;

[0018] Figure 8 is a fragmentary sectional side elevation view of the combination illustrated in Figure 1, illustrating the coupling of the retaining tab, more particularly illustrated in Figure 6, to a rear of the keyboard;

[0019] Figure 9 is a fragmentary top front perspective view of the keyboard support illustrated in Figure 1, illustrating a retaining tab and a receiving well at a front corner edge of the keyboard support;

[0020] Figure 10 is a fragmentary top front perspective view of the combination illustrated in Figure 1, illustrating the coupling of a retaining tab to a recess provided in a front portion of the keyboard;

[0021] Figure 11 is a fragmentary sectional side elevation view of the combination illustrated in Figure 1 of the same side as the fragment of which is illustrated in Figure 8, illustrating the coupling of a retaining tab, disposed proximate to the front of the keyboard support, to the keyboard;

[0022] Figure 12 is top plan view of the combination illustrated in Figure 1 coupled to a multi-position adjustable keyboard supporting mechanism;

[0023] Figure 13 is a fragmentary top front perspective view of the keyboard support illustrated in Figure 1, illustrating a front portion of the keyboard support including a receiving well;

[0024] Figure 14 is a fragmentary top perspective view of the combination illustrated in Figure 1, illustrating the coupling of a retaining tab to a recess disposed at the front of the keyboard support;

[0025] Figure 15 is a fragmentary sectional side elevation view of the combination illustrated in Figure 1 of a side opposite to the side whose fragments are illustrated in Figures 8 and 11, illustrating a receiving well, disposed at a front portion of the keyboard support, receiving an engagement tab;

[0026] Figure 16 is a top front perspective view of the combination illustrated in Figure 1 coupled to a multi-position adjustable keyboard supporting mechanism;

[0027] Figure 17 is a rear elevation view of the combination illustrated in Figure 1;

[0028] Figure 18 is front sectional side elevation view of the combination illustrated in Figure 1;

[0029] Figure 19 is a side elevation view of the combination illustrated in Figure 1 coupled to a multi-position adjustable keyboard supporting mechanism;

[0030] Figure 20 is a bottom front perspective view of the combination illustrated in Figure 1 coupled to a multi-position adjustable keyboard supporting mechanism;

[0031] Figure 21 is a top front perspective view of the multi-position adjustable keyboard supporting mechanism;

[0032] Figure 22 is an exploded bottom front perspective view of a combination of the keyboard, keyboard support, and the multi-position adjustable keyboard supporting mechanism;

[0033] Figure 23 is a fragmentary top front perspective view of a rear portion of the keyboard illustrated in Figure 1, including illustration of the mouse retainer;

[0034] Figure 24 is an exploded fragmentary top perspective view of a rear portion of the keyboard illustrated in Figure 1, including illustration of the mouse retainer, taken from a perspective opposite to that from which the view in Figure 23 is taken;

[0035] Figure 25 is a fragmentary top front perspective view of a mousepad section of the combination illustrated in Figure 1, including illustration of a mouse device disposed on a mousepad surface;

[0036] Figure 26 is a top plan view of a human positioned at a workstation and using a keyboard and mouse device on a mousepad, wherein the keyboard and mousepad are supported on a conventional tray;

[0037] Figure 27 is a top plan view of a human positioned at a workstation and using a keyboard and keyboard support combination illustrated in Figure 1;

[0038] Figure 28 is a top plan view of a human positioned at a corner desk configuration of a workstation and using a keyboard and mouse device on a mousepad, wherein the keyboard and mousepad are supported on a conventional tray;

[0039] Figure 29 is a top plan view of a human positioned at a corner desk configuration of a workstation and using a keyboard and keyboard support combination illustrated in Figure 1;

[0040] Figure 30 is a side elevation view of a human positioned at a corner desk configuration of a workstation and using a keyboard and mouse device on a mousepad, wherein the keyboard and mousepad are supported on a conventional tray;

[0041] Figure 31 is a side elevation view of a human positioned at a workstation and using a keyboard and keyboard support combination illustrated in Figure 1;

[0042] Figure 32 is an exploded front elevation view of the combination illustrated in Figure 1, including illustration of how certain elements of the keyboard are received by the keyboard support;

[0043] Figure 33 is an exploded rear elevation view of the combination illustrated in Figure 1, including illustration of how certain elements of the keyboard are received by the keyboard support;

[0044] Figure 34 is a fragmentary sectional side elevation view of the combination illustrated in Figure 1, illustrating the retaining tab in a first position prior to coupling to a rear of the keyboard, and in a second position after having become disposed in a snap-fit relationship within a recess at the rear of the keyboard;

[0045] Figures 35 to 37 are sectional side elevation views of the combination illustrated in Figure 1, illustrating steps by which the keyboard becomes coupled to the keyboard support;

[0046] Figure 38 is a fragmentary sectional side elevation view of the combination illustrated in Figure 1, illustrating an intermediate step in effecting coupling of the keyboard to the keyboard support, and particularly illustrating the guiding of the keyboard towards a position for effecting alignment between the keyboard recess and a rear retainer tab; and

[0047] Figure 39 is a side elevation view of another embodiment of a keyboard.

**DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS**

[0048] Referring to Figures 1 to 5, there is provided a keyboard support 10 including a support surface 12. The support surface 12 is configured for supporting a keyboard 14. For example, with respect to the support surface 12, the support surface 12 is configured to provide vertical support to the keyboard 14. For example, the keyboard support includes a front 1001, a rear 1003, and opposite sides 1005, 1007.

[0049] For example, the keyboard support is plastic and is manufactured by injection moulding. For example, suitable plastics include high impact polystyrene, PA6-Nylon, or fibre reinforce ABS (acrylonitrile butadiene styrene) polymer.

[0050] For example, the keyboard 14 is coupled to the keyboard support 10 such that the keyboard 14 and keyboard support 10 is a coupled unit. The keyboard includes a front 1401, a rear 1403, and opposite sides 1405, 1407.

[0051] For example, a suitable keyboard for integration with at least some of the described aspects herein is the Jasper freeBOARD™ distributed by 2057367 Ontario Limited o/a Jasper Designworks, Toronto, Ontario ([www.jasperd.com](http://www.jasperd.com)). A further example of a suitable keyboard for integration with at least some of the described aspects herein is disclosed in International patent application no. PCT/CA2006/000289 (published as International publication no. WO/2006/099714 A1). In this respect, an example of a suitable keyboard is a keyboard including an integrated mousepad. Also in this respect, an example of a suitable keyboard is a keyboard including a retractable numeric keypad which is configured to nest within a cavity provided in the keyboard housing.

[0052] Referring to Figure 12 and 16, the keyboard 14 includes a housing 16 and a key area 20. The keyboard housing 16 includes an upper surface from which the key area 20 is accessible.

[0053] For example, and referring to Figures 16, 23, 24, and 25, the keyboard 14 includes an integrated mousepad 22, wherein the mousepad 22 merges with the housing 16.



[0054] For example, the keyboard housing 16 is injection moulded plastic. For example, a suitable plastic is high impact polystyrene. For example, with respect to the key area, the key area is a QWERTY key area including at least 50 keys. For example, with respect to each of the keys of the QWERTY key area, each of the keys includes a minimum width of at least about 0.4 inches. For example, the minimum width is about 0.71 inches.

[0055] The keyboard support 10 and keyboard housing 16 are co-operatively configured such that movement of the keyboard housing 16 is opposed when the keyboard 14 is supported on the support surface 12. For example, the keyboard support 10 is configured to oppose lateral movement of the keyboard housing 16 relative to the keyboard support 10. As a further example, the keyboard support 10 is configured to oppose movement of the keyboard housing 16 relative to a support surface reference axis defined by an axis 200 which is normal to a plane 202 tangent to at least a portion of the support surface 12, when the keyboard 14 is supported on the support surface 12. As a further example, The keyboard support 10 is also configured to oppose movement of the keyboard 14 when the keyboard 14 is supported on the support surface 12. For example, the keyboard support 10 is configured to oppose lateral movement of the keyboard 14 relative to the keyboard support 10. As a further example, the keyboard support 10 is configured to oppose movement of the keyboard 14 relative to a support surface reference axis defined by the axis 200 which is normal to the plane 202 tangent to at least a portion of the support surface 12, when the keyboard 14 is supported on the support surface 12. As a further example, the keyboard support 12 is configured to oppose movement of the keyboard housing 16 which would be effected by an application of force to the keyboard 14 in a direction orthogonal to the support surface reference axis 200. For example, with respect to each of the above-described movements, each of the above-described movements is limited. As a further example, with respect to each of the above-described movements, each of the above-described movements is substantially prevented.

[0056] For example, with respect to the key area 20 is a QWERTY key area. For example, the QWERTY key area includes at least 50 keys. For example, with respect to each

of the keys, each of the keys as a minimum width of at least about 0.4 inches. For example, with respect to each of the keys, each of the keys has a minimum width of about 0.71 inches.

[0057] As the term is used herein, the mousepad 22 refers to a substantially flat designated area suitable for operating a mouse device 56. For example, the mousepad surface 24 includes a surface area of at least 22 square inches. For example, the surface area is 36 square inches. For example, the mousepad surface 24 is manufactured from the same material as the keyboard housing. As a further option, a highly reflective veneer or film could be used to form the mousepad surface 24.

[0058] As the term is used herein, the mouse device 56 is an input device which is configured for movement in a substantially flat plane on a corresponding substantially flat surface (ie. the mousepad).

[0059] For example, the keyboard support 10 is coupled to a workstation 26 and supports the keyboard 14 to provide a workstation assembly 28. In this respect, for example, there is further provided a multi-position adjustable keyboard supporting mechanism 68 configured for attachment to the keyboard support 10. Referring to Figures 19 to 22, the mechanism 68 includes a mounting plate 66 configured for attachment to a mounting surface provided on the keyboard support 12. For example, the keyboard support includes two mounting surfaces 70a, 70b, wherein each of them is configured for receiving a mounting plate 68. For example, and referring to Figures 20 and 22, the mounting plate 68 can be attached to one of the mounting surfaces 70a or 70b with bolts 76. The mounting surface 70a includes apertures 74a, while the mounting surface includes apertures 74b, and the apertures 74a, 74b are configured to receive bolts 76 to effect coupling of the mounting plate 68 to one of the mounting surfaces 70a, 70b. The mechanism 68 also includes a fastening bolt 69 configured for attachment to a workstation 26. In this respect, when coupling of the keyboard support 10 to a workstation 26 is effected by the multi-position adjustable keyboard supporting mechanism 68, and the keyboard 14 is coupled to the keyboard support 10, there is provided a workstation assembly 28 including a workstation 26, a keyboard support 10 coupled to the workstation 26, and a keyboard 14 coupled to the keyboard support 10.

[0060] The multi-position adjustable keyboard supporting mechanism 68 includes a mounting plate 68 which is biased upwardly to support a predetermined range of weight within a range of vertical dispositions. In this respect, the mechanism 68 includes a spring 6803 coupled at one end to a bracket located directly underneath a rail 6801. The rail 6801 facilitates sliding movement of the mounting plate 66 forwardly and rearwardly relative to the workstation 26, when the mechanism 68 is coupled to the workstation 26. The other end of the spring 6803 to an element 6805 and thereby transmit a biasing force to counteract weight being applied to the mounting plate 66. Insufficient weight acting on the mounting plate 66 may cause the mounting plate 66 to inadvertently “jump up”.

[0061] Examples of suitable multi-position adjustable keyboard supporting mechanism 68 include Humanscale™ Model 5G keyboard support mechanism, Anatome™ Model CA300HG, Anatome™ Model CA200, Anatome™ Model CA100, or Anatome™ Model WallTrax #1602.

[0062] For example, with respect to the workstation 26, the workstation 26 can assume any configuration known in the industry, and the workstation 26 includes a desk 27.

(A) First mode of co-operative configuration of keyboard and keyboard support for opposing movement of keyboard relative to keyboard support

[0063] A mode of the co-operative configuration of the keyboard 14 and the keyboard support 10 is provided.

[0064] The keyboard 14 includes the keyboard housing 16, and the keyboard housing 16 includes an engagement tab 30.

[0065] The keyboard support 10 includes the support surface 12.

#### First Aspect

[0066] Referring to Figures 8, 13, 15, 32, and 33, in one aspect, an engagement tab 30 is further provided projecting from one of the keyboard 14 and the keyboard support 10. An engagement surface 32 is also provided on the other one of the keyboard 14 and the keyboard

support 10. The engagement tab 30 is configured to co-operate with the engagement surface 32 so that the engagement surface 32 opposes movement of the engagement tab 30 when the keyboard 14 is supported on the keyboard support 10.

[0067] For example, with respect to the engagement tab 30, the engagement tab 30 extends across a reference plane 202 which is tangent to a portion of the support surface of the keyboard support 10.

[0068] For example, and referring to Figure 13, with respect to the engagement surface 32, an engagement surface reference plane is defined by a plane 400 tangent to the engagement surface 32, and the engagement surface reference plane traverses a horizontal plane when the keyboard 14 is supported on the keyboard support 12. As a further example with respect to the engagement surface 32, the engagement surface 32 is configured to be disposed in opposition to the engagement tab 30 when the keyboard 14 is supported on the keyboard support 10. As a further example with respect to the engagement surface 32, the engagement surface 32 includes a minimum surface area of at least about 0.03 square inches. For example, the minimum surface area is 0.05 square inches.

[0069] For example, with respect to the co-operation between the engagement tab 30 and the engagement surface 32, the engagement tab 30 is configured to co-operate with the engagement surface 32 so that the engagement surface 32 opposes movement of the engagement tab 30 and thereby opposes lateral movement of the keyboard housing 16 relative to the keyboard support surface 10, when the keyboard 14 is supported on the keyboard support surface 10. For example, with respect to the lateral movement being opposed, the lateral movement being opposed is that movement which would be lateral relative to the support surface reference axis 200. For example, with respect to the lateral movement being opposed, the lateral movement being opposed is sideways movement. For example, with respect to the lateral movement being opposed, the lateral movement being opposed is that movement which would be effected by an application of force to the keyboard in a direction orthogonal to the support surface reference axis 200.

[0070] As a further example with respect to the co-operation between the engagement tab 30 and the engagement surface 32, the engagement tab 30 is configured to co-operate with the engagement surface 32 such that the engagement surface 32 opposes movement of the engagement tab 30 and thereby opposes movement of the keyboard housing 16 relative to the support surface reference axis 200 when the keyboard is supported on the support surface.

[0071] As a further example with respect to the co-operation between the engagement tab 30 and the engagement surface 32, the engagement tab 30 is configured to co-operate with the engagement surface 32 such that the engagement surface 32 opposes movement of the engagement tab 30 which would be effected by an application of force to the keyboard in a direction orthogonal to the support surface reference axis 200, when the keyboard is supported on the support surface.

[0072] For example, with respect to the configured disposition of the engagement tab 30 relative to the engagement surface 32, the engagement tab 30 is configured to be disposed in an interference fit relationship with the engagement surface 32 when the keyboard 14 is supported on the keyboard support 10. As a further example with respect to the configured disposition of the engagement tab 30 relative to the engagement surface 32, the engagement tab 30 is configured to be disposed in a snap-fit relationship with the engagement surface 32 when the keyboard 14 is supported on the keyboard support 10.

#### Second Aspect

[0073] In another aspect of the co-operative configuration between keyboard 14 and the keyboard support 10, there is also provided a receiving well 38, and the receiving well 38 includes the above-described engagement surface 32 to effect the opposition to the movement of the keyboard housing 16 relative to the keyboard support 10. The receiving well is configured to receive the engagement tab when the keyboard is supported on the support surface.

#### Third Aspect

[0074] A further aspect of the co-operative configuration between the keyboard 14 and the keyboard support 10 is also provided. In this aspect, there is provided an engagement tab assembly 40 and an engagement surface assembly 42. The engagement tab assembly 40 is configured to co-operate with the engagement surface assembly 42 such that the above-described opposition to the movement of the keyboard housing 16 relative to the keyboard support 10 is effected when the keyboard 14 is supported on the support surface 10.

[0075] For example, the engagement tab assembly 40 includes at least one engagement tab 30, and each one of the at least one engagement tab 30 projects from any one of the keyboard 14, the keyboard support 10, or a combination thereof. The engagement surface assembly 42 includes at least one engagement surface 32. Each one of the at least one engagement surface 32 is configured to oppose movement of a respective one of the at least one engagement tab 30 relative to the other one of the keyboard 14 or the keyboard support 10 from which the respective one of the at least one engagement tab 30 projects, when the keyboard 14 is supported on the keyboard support 10.

[0076] For example, for each one of the at least one engagement tab 30 projects from the keyboard 14, the respective one of the at least one engagement surface 32 is provided in the keyboard support 10. For each one of the at least one engagement tab 30 projecting from the keyboard support 10, the respective one of the at least one engagement surface 32 is provided in the keyboard 14.

[0077] For example, each one of the at least one engagement tab 30 is projecting from the keyboard 14, and each one of the at least one engagement surface 32 is provided in the keyboard support 10.

[0078] For example, each one of the at least one engagement surface 32 is configured to receive a respective one of the at least one engagement tab 30 when the keyboard 14 is supported on the keyboard support 10 such that each one of the at least one engagement surface 32 is disposed in an interference fit relationship with the respective one of the at least one engagement tab 30.

Fourth Aspect

[0079] A further aspect of the co-operative configuration between the keyboard 14 and the keyboard support 10 is also provided. In this aspect, there is provided an engagement tab assembly 40 and a receiving well assembly 41. The engagement tab assembly 40 is configured to co-operate with the receiving well assembly 41 such that the above-described opposition to the movement of the keyboard housing 16 relative to the keyboard support 10 is effected when the keyboard 14 is supported on the support surface 10.

[0080] For example, the engagement tab assembly 40 includes at least one engagement tab 40 projecting from any one of the keyboard 14, the keyboard support 10, or a combination thereof, and the receiving well assembly 41 includes at least one receiving well 38. Each one of the at least one receiving well 38 is configured to receive a respective at least one of the at least one engagement tab 40, such that each one of the at least one engagement tab 40 is configured to be received by a one of the at least one receiving well 38 when the keyboard 14 is supported on the keyboard support 10.

[0081] For example, for each one of the respective at least one of the at least one engagement tab 40 projecting from the keyboard 14 and configured to be received by a one of the at least one receiving well 38 when the keyboard 14 is supported on the keyboard support 10, the one of the at least one receiving well 38 is provided in the keyboard support 10. As well, for each one of the respective at least one of the at least one engagement tab 30 projecting from the keyboard support 10 and configured to be received by a one of the at least one receiving well 38 when the keyboard 14 is supported on the keyboard support 10, the one of the at least one receiving well 38 is provided in the keyboard 14.

[0082] For example, the at least one receiving well 38 is a plurality of receiving wells 38, and the at least one engagement tab 30 is a plurality of engagement tabs 30. In this respect, each one of the plurality of engagement tabs 30 corresponds to a respective one of the plurality of receiving wells 38, such that each one of plurality of engagement tabs 30 is configured to be received by the respective one of the plurality of receiving wells 38 when the keyboard 14 is supported on the keyboard support 10. For each one of the plurality of

engagement tabs 30 projecting from the keyboard 14, the respective one of the plurality of receiving wells 38 is provided in the keyboard support 10. For each one of the plurality of engagement tabs 30 projecting from the keyboard support 10, the respective one of the plurality of receiving wells 38 is provided in the keyboard 14.

[0083] For example, each one of the at least one receiving well 38 is configured to receive a respective at least one of the at least one engagement tab 30 when the keyboard 14 is supported on the keyboard support 10 such that movement of each one of the respective at least one of the at least one engagement tab 30 is opposed by the one of the at least one receiving well 38 which receives the respective at least one of the at least one engagement tab 30 when the keyboard 14 is supported on the keyboard support 10. For example, the above-described movement is limited. As a further example, the above-described movement is substantially prevented.

[0084] For example, each one of the at least one receiving well 38 is configured to receive a respective at least one of the at least one engagement tab 30 when the keyboard 14 is supported on the keyboard support 10 such that movement of each one of the respective at least one of the at least one engagement tab 30 is opposed by the one of the at least one receiving well 38 which receives the respective at least one of the at least one engagement tab 30, such that lateral movement of the keyboard housing 16 relative to the keyboard support surface 10 is thereby opposed when the keyboard 14 is supported on the support surface 10. For example, the above-described movement is limited. As a further example, the above-described movement is substantially prevented.

[0085] For example, each one of the at least one receiving well 38 is configured to receive a respective at least one of the at least one engagement tab 30 when the keyboard 14 is supported on the keyboard support 10 such that movement of each one of the respective at least one of the at least one engagement tab 30 is opposed by the one of the at least one receiving well 38 which receives the respective at least one of the at least one engagement tab 30, such that movement of the keyboard housing 16 relative to the support surface reference axis 200 is thereby opposed when the keyboard 14 is supported on the support



surface 10. For example, the above-described movement is limited. As a further example, the above-described movement is substantially prevented.

[0086] For example, each one of the at least one receiving well 38 is configured to receive a respective at least one of the at least one engagement tab 30 when the keyboard 14 is supported on the keyboard support 10 such that movement of each one of the at least one of the at least one engagement tab 30 which is effected by an application of force to the keyboard 14 in a direction orthogonal to the support surface reference axis 200 is opposed by the one of the at least one receiving wells 38 which receives the respective at least one of the at least one engagement tabs 30 when the keyboard 14 is supported on the keyboard support 10. For example, the above-described movement is limited. As a further example, the above-described movement is substantially prevented.

[0087] For example, each one of the at least one receiving well 38 is configured to receive a respective at least one of the at least one engagement tab 30 when the keyboard 14 is supported on the keyboard support 10 such that each one of the at least one receiving well 38 is disposed in an interference fit relationship with the respective at least one of the at least one engagement tab 30.

[0088] For example, each one of the at least one engagement tab 30 is projecting from the keyboard 14, and wherein each one of the at least one receiving well 38 is provided in the keyboard support 10.

[0089] For example, in the illustrated embodiment, and referring to Figure 22, there is provided four engagement tabs 30 (for the purpose of distinguishing between them, these are also identified with reference numerals 30a, 30b, 30c, and 30d) which depend from the keyboard 14. Tab 30a depends from a generally centrally located front portion of the keyboard 14. Tabs 30b, 30d depend from opposite side portions of the keyboard 14 and closer to the front of the keyboard. Tab 30c depends from a generally centrally located rear portion of the keyboard 14. For example, each one of the tabs 30 is in the form of a vulcanized rubber pad. Referring to Figure 5, there is also provided four receiving wells 38 (for the purpose of distinguishing between them, these are also identified with reference

numerals 38a, 38b, 38c, and 38d) in the keyboard support 10. Referring to Figures 32 and 33, each of the receiving wells 38 is configured to receive a respective one of the tabs 30 in an interference fit relationship when the keyboard 14 is supported on the keyboard support 10. The receiving of some of the retaining tabs 30 by some of the receiving wells 38 is illustrated in Figures 14, 15, 17.

(B) Second mode of co-operative configuration of keyboard and keyboard support for opposing movement of keyboard relative to keyboard support

[0090] A second mode of co-operative configuration of the keyboard 14 and the keyboard support 10 is provided.

[0091] The keyboard 14 and the keyboard support 10 are provided. The provided keyboard 14 includes the housing 16.

#### First Aspect

[0092] Referring to Figures 2 to 11, 32, and 33, in one aspect, the keyboard 14 is configured to be coupled to the keyboard support 10 by way of snap-fit engagement. In this respect, when coupled to one another, the keyboard 14 and the keyboard support 10 are coupled by way of snap-fit engagement.

[0093] For example, such coupling effects opposition to the movement of the keyboard housing 16 in substantially every direction relative to the keyboard support 10 when the keyboard 14 is supported on the keyboard support 10.

[0094] For example, with respect to the combination of the keyboard 14 and the keyboard support 12, there is further provided a retainer tab assembly 47, and a receiving assembly 49. The receiving assembly 49 is configured to receive the retainer tab assembly 47 when the keyboard 14 is supported on the keyboard support 10 so as to effect the coupling of the keyboard 14 to the keyboard support 10 when the keyboard 14 is supported on the keyboard support 10 such that movement of the keyboard housing 16 is opposed in substantially every direction relative to the keyboard support 10.

[0095] For example, the retainer tab assembly 47 includes at least one retainer tab 46, and the receiving assembly 49 including at least one recess 48. Each one of the at least one recess 48 is configured to receive a respective at least one of the at least one retainer tab 46 when the keyboard 14 is supported on the keyboard support 10, such that each one of the at least one of the at least one retainer tab 46 is configured to be received by a one of the at least one recess 48 when the keyboard 14 is supported on the keyboard support 10 such that movement of the keyboard housing 16 is opposed in substantially every direction relative to the keyboard support 10.

[0096] For example, each one of the at least one retainer tab 46 projects from any one of the keyboard 14, the keyboard support 10, or a combination thereof.

[0097] As a further example, for each one of the respective at least one of the at least one retainer tab 46 projecting from the keyboard 14 and configured to be received by a one of the at least one recesses 48 when the keyboard 14 is supported on the keyboard support 10, the one of the at least one recess 48 is provided in the keyboard support 10. For each one of the respective at least one of at least one retainer tab 46 projecting from the keyboard support 10 and configured to be received by a one of the at least one recess 48 when the keyboard 14 is supported on the keyboard support 10, the one of the at least one recess 48 is provided in the keyboard 14.

[0098] For example, each one of the at least one retainer tab 46 projects from the keyboard support 10, and wherein each one of the at least one recess 48 is provided in the keyboard 14.

[0099] For example, each one of the at least one retainer tab 46 corresponds to a respective one of the at least one recess 48, such that each one of the at least one retainer tab 46 is configured to be received by the respective one of the at least one recess 48 when the keyboard 14 is supported on the keyboard support 10 such that movement of the keyboard housing 16 is opposed in substantially every direction relative to the keyboard support 14.

#### Second Aspect

[00100] In another aspect, the keyboard 14 and keyboard support 10 are co-operatively configured for coupling to one another such that, when the keyboard 14 is coupled to the keyboard support 10, movement of the keyboard housing 16 is opposed in substantially every direction relative to the keyboard support 10. In this respect, with respect to the combination of the keyboard 14 and the keyboard support 12, there is further provided a retainer tab assembly 47 and a receiving assembly 49. The receiving assembly 49 is configured to receive the retainer tab assembly 47 when the keyboard 14 is supported on the keyboard support 10 so as to effect coupling of the keyboard 14 to the keyboard support 10 such that the movement of the keyboard housing 16 is opposed in substantially every direction relative to the keyboard support 10 when the keyboard 14 is supported on the keyboard support 10.

[00101] For example, the retainer assembly 47 includes at least one retainer tab 46, and the receiving assembly 49 is configured to receive each one of the at least one retainer tab 46 when the keyboard 14 is supported on the keyboard support 10 so as to effect the coupling of the keyboard 14 to the keyboard support 10 such that movement of the keyboard housing 16 is opposed in substantially every direction relative to the keyboard support 10. As a further example, the receiving assembly 49 includes at least one recess 48, and each one of the at least one recess 48 is configured to receive a respective at least one of the at least one retainer tab 46 when the keyboard 14 is supported on the keyboard support 10 so as to effect the coupling of the keyboard 14 to the keyboard support 10 such that movement of the keyboard housing 16 is opposed in substantially every direction relative to the keyboard support 10, such that each one of the at least one retainer tab 46 is configured to be received by a one of the at least one of recess 48 when the keyboard 14 is supported on the keyboard 10.

[00102] As a further example, each one of the at least one retainer tab 46 projects from any one of the keyboard 14, the keyboard support 10, or a combination thereof.

[00103] As a further example, for each one of the respective at least one of the at least one retainer tab 46 projecting from the keyboard 14 and configured to be received by a one of the at least one recesses 48 when the keyboard 14 is supported on the keyboard support 10, the one of the at least one recess 48 is provided in the keyboard support 10. For each one of the respective at least one of at least one retainer tab 46 projecting from the keyboard support

10 and configured to be received by a one of the at least one recess 48 when the keyboard 14 is supported on the keyboard support 10, the one of the at least one recess 48 is provided in the keyboard 14.

[00104] For example, each one of the at least one retainer tab 46 projects from the keyboard support 10, and wherein each one of the at least one recess 48 is provided in the keyboard 14.

[00105] For example, each one of the at least one retainer tab 46 corresponds to a respective one of the at least one recess 48, such that each one of the at least one retainer tab 46 is configured to be received by the respective one of the at least one recess 48 when the keyboard 14 is supported on the keyboard support 10 such that movement of the keyboard housing 16 is opposed in substantially every direction relative to the keyboard support 10.

[00106] For example, the coupling of the keyboard 14 to the keyboard support 10 is effected by way of snap-fit engagement. In this respect, for example, at least one of the respective at least one of the at least one retainer tab 46 is configured to be disposed in a snap-fit relationship with a respective one of the at least one recess 48 which receives the respective at least one of the at least one retainer tab 46 when the keyboard 14 is supported on the keyboard support 10. As a further example, there is further provided a guide assembly 500 for facilitating the receiving of each one of the at least one of the respective at least one of the at least one retainer tab 46 configured to be disposed in a snap-fit relationship with a one of the at least one recess 48 which receives the respective at least one of the at least one retainer tab 46 when the keyboard 14 is supported on the keyboard support 10.

[0100] For example, in the illustrated embodiment, and referring to Figures 2 to 11, there is provided four retainer tabs 46 (for the purpose of distinguishing between them, these are also identified with reference numerals 46a, 46b, 46c, and 46d). Tabs 46a and 46b are disposed at front portions of the keyboard support 10. Tabs 46c and 46d are disposed at rear portions of the keyboard support 10. In parallel, there is provided four recesses 48 (for the purpose of distinguishing between them, these are also identified with reference numerals 48a, 48b, 48c, and 48d). Recesses 48a and 48b are provided at front portions of the keyboard

14. Recesses 48c and 48d are provided at rear portions of the keyboard. Referring to Figures 32 and 33, each one of the retainer tabs 46a, 46b, 46c, and 46d is configured to be received by a respective one of the recesses 48a, 48b, 48c, and 48d. Coupling of the keyboard 14 to the keyboard support 12 is effected by insertion of the retainer tabs 46 into the corresponding recesses 48. Referring to Figures As a first step, the tabs 46a, 46b are inserted within the recesses 48a, 48b, respectively, to effect an interference fit between each one of the tabs 46a, 46b and a respective one of the recesses 48a, 48b. Each one of the tabs 46c, 46d is then bent rearwardly to permit the rear portion of the keyboard 14 to be lowered relative to the support surface 12 and thereby effect alignment between an operative protrusion 4601c, 4601d of each one of the tabs 46c, 46d and a respective one of the recesses 48c, 48d. For example, each one of the retainer tabs 46c, 46d includes a respective one of the guide 4611c, 4611d for guiding movement of the keyboard 14 towards a respective one of the recesses 46c, 46d. For example, each one of the guides 4611c, 4611d presents a guide surface disposed at an angle X relative to the horizontal when the keyboard support is disposed on a horizontal surface. For example, the angle X at which the guide surface is disposed at is about 65 degrees relative to the horizontal when the keyboard support 10 is disposed on a horizontal surface. In co-operation, each one of the recesses 46c, 46d extends from an external surface of the keyboard 14 and is defined by a respective one of upper recess surfaces 4801c, 4801d disposed at an angle Y relative to the horizontal when the keyboard support 10 is disposed on a horizontal surface. For example, the angle Y at which each one of the upper recess surfaces 4801c, 4801d is disposed at is about 65 degrees relative to the horizontal when the keyboard support 10 is disposed on a horizontal surface. This facilitates alignment of each one of the recesses 46c, 46d with the respective one of the protrusions 4601c, 4601d.

[0101] Once alignment is effected, the tabs 46c, 46d are released. By virtue of their resiliency, releasing the tabs 46c, 46d effects return of the tabs 46c, 46d to substantially their original condition. As a necessary incident, this causes the tabs 46c, 46d to move forwardly relative to the keyboard 14, and effect insertion of each one of the tabs 46c, 46d into a respective one of the recesses 48c, 48d, thereby effecting snap fit engagement of each one of the tabs 46c, 46d with a respective one of the recesses 48c, 48d.

[0102] Each one of the tabs 46c, 46d projects upwardly and is disposed vertically above a plane tangent to the upper surface of the key area 20 and rearwardly relative to the keyboard 14 when the keyboard 14 is supported by and coupled to the keyboard support 10. The vertical and lateral disposition of the tabs 46c, 46d, relative to the keyboard 14, when the keyboard 14 is supported by and coupled to the keyboard support 10, effects a guard functionality, such that the tabs 46c, 46d function as guards, limiting or preventing contact between the desk of the workstation with the key area 20 of the keyboard 14 when the keyboard-keyboard support combination is moved towards the desk by effecting rearward movement of the multi-position adjustable keyboard supporting mechanism 68 relative to the desk. The contact is limited or prevented because the tabs 46c, 46d are configured to contact the desk before contact is made by the keyboard 14 by virtue of the vertical and lateral disposition of the tabs 46c, 46d relative to the keyboard. Each one of the tabs 46c, 46d also includes a respective one of the overhangs 4621c, 4621d for further limiting vertical displacement of the keyboard 14 relative to the keyboard support surface 10.

[0103] A second embodiment of a keyboard, identified with reference numeral 214a, is illustrated in Figure 39. Unlike the keyboard 14, keyboard 214a includes retainer tabs 246b, 246d configured for being received within corresponding recesses provided in a corresponding second embodiment of a keyboard support. In this respect, it is intended to illustrate that the retainer assembly or the retaining tabs are not required to be disposed on the keyboard support, and that the retainer assembly or the retaining tabs could be disposed on the keyboard and that corresponding recesses could be provided in the keyboard support to effect a snap-fit coupling of the keyboard to the keyboard support.

### Third Aspect

[0104] In this respect, and referring to Figures 35 to 38, there is provided a method of attaching a keyboard 14 to a keyboard support 10.

[0105] The method includes providing a keyboard 14 including a receiving assembly including a first recess 48b provided in a first keyboard surface portion 1401 of the keyboard 14 and a second recess 48c provided in a second keyboard surface portion 1403 of the

keyboard 14, wherein the second keyboard surface portion 1403 is disposed opposite to the first portion 1401.

[0106] A keyboard support 10 is also provided and includes a support surface 12 configured for supporting the keyboard 14 and also includes a retainer tab assembly. The retainer tab assembly includes a first retainer tab 46b and a second retainer tab 46c. The first retainer tab 46c projects from a first keyboard support surface portion 1201, and includes a protrusion 4601c configured for insertion into the first recess 1401. The second retainer tab 46d projects from a second keyboard support surface portion 1203 and includes a protrusion 4601d configured for insertion into the second recess 1403. The second retaining tab 46c includes resilient material for facilitating bending of the second retaining tab 46c.

[0107] The protrusion 4601c of the first retaining tab 46b is inserted into the first recess 1401 of the keyboard 14. The second retaining tab 46c is then bent out of the way of the keyboard 14 and, more particularly, the second keyboard surface portion 1203. This permits the keyboard 14 to be lowered relative to the support surface 12 and thereby effect alignment of the projection 4603 of the second retaining tab 46c with the second recess 1403. For example, the retainer tab 46c includes a guide 4611c for guiding movement of the keyboard 14 towards the recess 46c. For example, the guide 4611c presents a guide surface disposed at an angle X relative to the horizontal when the keyboard support is disposed on a horizontal surface. For example, the angle X at which the guide surface is disposed at is about 65 degrees relative to the horizontal when the keyboard support is disposed on a horizontal surface. In co-operation, the recess 46c extends from an external surface of the keyboard 14 and is defined by an upper recess surface disposed at an angle Y relative to the horizontal when the keyboard support is disposed on a horizontal surface. For example, the angle Y at which the upper recess surface is disposed at is about 65 degrees relative to the horizontal when the keyboard support is disposed on a horizontal surface. This facilitates alignment of the recess 46c with the protrusion 4601c.

[0108] Once alignment is effected, the tab 46c is released from the deformed condition it has assumed after having been caused to have been bent. By virtue of its resiliency, releasing the tab 46c effects a return of the tab 46c towards its original condition



prior to the deformation caused by the bending. As a necessary incident, this causes the tab 46c to move forwardly relative to the keyboard 14, and effect insertion of a respective projection 4601c of each one of the tabs 46c into a respective one of the recesses 48c thereby effecting snap fit engagement of each one of the tabs 46c with a respective one of the recesses 48c.

(C) Keyboard with retainer for limiting mouse travel

[0109] In another aspect, and referring to Figures 12, 16, 23 to 25, there is provided the keyboard 14 including the key section 18, wherein the key section 18 includes a plurality of keys 80, a mousepad section 52 including the mousepad surface 24, and a mouse retainer 54 disposed peripherally relative to the mousepad surface 24. When a mouse device 56 is disposed on a portion of the mousepad surface 24, and the disposition of the portion of the mousepad surface 24 is substantially horizontal, and the keyboard 14 is then re-positioned so that the portion of the mousepad surface 24 becomes disposed at a sufficient angle relative to the horizontal such that gravitational force effects movement of the mouse device 56, the mouse device 56 is prevented from sliding off the keyboard 14 by the mouse retainer 54.

[0110] For example, with respect to the keyboard 14, the keyboard 14 includes a front end 58 and a rear end 60, wherein the mouse retainer 54 is disposed rearwardly relative to the mousepad surface 24. When the mouse device 56 is disposed on a portion of the mousepad surface 24, and the disposition of the portion of the mousepad surface 24 is substantially horizontal, and the keyboard 14 is then tilted so that the front end 58 is disposed at a sufficiently higher vertical position relative to the rear end 60 (see Figure 19) such that gravitational force effects movement of the mouse device 56 in the rearward direction, the mouse device 56 is prevented from sliding off the rear end 60 of the keyboard 14 by the mouse retainer 54.

[0111] For example, with respect to the mouse retainer 54, the mouse retainer 54 extends substantially across the rear edge 62 of the mousepad surface 24.

[0112] For example, the retainer 54 is provided as part of a rail assembly 541 which coupled to the keyboard housing 16 by snap-fit engagement. For example, and referring to Figure 24, the rail assembly 541 is provided including a retainer rail 54 extending from a mounting structure 543. The mounting structure 543 includes a retention cavity 545 configured for becoming disposed in snap-fit engagement with a footpad 241 provided on the keyboard 14. A slotted guide 243 is also provided on the keyboard 14, and is configured to receive and vertically retain the mounting structure 543 as the cavity 545 is being snap-fit over the footpad 241.

(D) Compact keyboard -keyboard support combination

[0113] Referring to Figures 2, 12, 16, and 18, there is provided a keyboard-keyboard support combination including a key section 18 including a QWERTY key arrangement 20 and the mousepad surface 24. The QWERTY key arrangement 20 includes at least fifty (50) keys 80. For example, the minimum width of each of the keys is at least about 0.4 inches. For example, the minimum width is about 0.71 inches.

[0114] The maximum width 64 of the keyboard support 10 is less than about 19 inches. For example, with respect to the maximum width 64, the maximum width 64 of the keyboard support 10 is less than about 17 inches. For example, the maximum width 64 is about 16 inches.

[0115] In another aspect, the keyboard-keyboard support combination having this compact functionality is provided in a workstation assembly 28. In this respect, a workstation assembly 28 is provided including a workstation 26, and the keyboard-keyboard support combination coupled to the workstation 26, wherein the keyboard 14 is supported by the keyboard support 10.

[0116] In another aspect, the keyboard 14 includes the QWERTY key arrangement 20 including at least 50 keys and the mousepad surface 24.

(E) Mounting functionality of keyboard support

[0117] Referring to Figure 1, and 19 to 11, there is provided a keyboard support configured for receiving and attaching to a mounting plate of a mounting plate 66 of the mechanism 68, comprising a recessed mounting surface corresponding to the mounting plate 66 of the mechanism 68, wherein the recessed mounting surface is configured to receive the mounting plate 66 and effect coupling of the mounting plate 66 to the mounting surface. For example, the keyboard support 10 is supporting a keyboard 12. As a further example, the keyboard support is coupled to the mounting plate 66.

[0118] There is further provided a keyboard support 10 which is configured for receiving and attaching to a mounting plate 66 of any one of a plurality of keyboard mounting mechanisms 68. Each one of the plurality of keyboard mounting mechanisms 68 is configured for coupling to a workstation 26. A respective mounting plate 66 of one of the plurality of keyboard mounting mechanisms 68 is shaped differently relative to a respective mounting plate 66 of each one of the other ones of the plurality of keyboard mounting mechanisms 68. The keyboard support 10 comprises a plurality of recessed mounting surfaces 70, wherein each one of the plurality of recessed mounting surfaces 70 corresponds to a respective one of the plurality of keyboard mounting mechanisms 68, and wherein each one of the plurality of recessed mounting surfaces 70 is configured to receive a respective mounting plate 66 of a respective one of the plurality of keyboard mounting mechanisms 68. For example, with respect to the relationship between at least one of the plurality of recessed mounting surfaces 70 and at least one other one of the plurality of recessed mounting surfaces 70, at least one of the plurality of recessed mounting surfaces 70 is at least partially co-located with at least one of the other ones of the plurality of recessed mounting surfaces 70.

[0119] For example, the keyboard support 10 includes two recessed mounting surfaces 70 disposed on a lower surface 72 of the keyboard support 10. The recessed mounting surface 70 is configured for attachment to the mounting plate of any one of Anatome™ Model CA300HG, Anatome™ Model CA200, Anatome™ Model CA100, or Anatome™ Model WallTrax #1602. Bolt holes 74 are provided in the recessed mounting surface 70 so as to effect attachment of the mounting plate of any of the above-described

Anatome™ products to the recessed mounting surface 70 by way of bolts 76. The recessed mounting surface 70 is configured for attachment to the Humanscale™ Model 5G keyboard support mechanism. Bolt holes 74 are provided in the recessed mounting surface 70 so as to effect attachment of the mounting plate of the Humanscale™ Model 5G to the recessed mounting surface 70 by way of bolts 76.

[0120] In one aspect, the keyboard support 10 is configured for supporting a keyboard 14 at a workstation 26. In this respect, there is provided a workstation system including a workstation 26, a keyboard mounting mechanism 68 configured for coupling to the workstation 26 and including a mounting plate 66, a keyboard 14, and a keyboard support 10 configured for receiving and attaching to the mounting plate 66. The keyboard support 10 includes a recessed mounting surface 70 configured for receiving the mounting plate 66, and also including a support surface 12 configured for supporting the keyboard 14. The keyboard 14 is also configured for receiving and attaching to a mounting plate 66 of any one of at least one other keyboard mounting mechanism 68. Each one of the at least one other keyboard mounting mechanism 68 is configured for coupling to the workstation 26. A respective mounting plate 66 of a one of the combination of the keyboard mounting mechanism 68 and the at least one other keyboard mounting mechanism 68 is shaped differently relative to a respective mounting plate 66 of each one of the other ones of the combination of the keyboard mounting mechanism 68 and the at least one other keyboard mounting mechanism 68. The keyboard support 10 further includes at least one other recessed mounting surface 70, wherein each one of the at least one other recessed mounting surface 70 corresponds to a respective one of the at least one other keyboard mounting mechanism 68. Each one of the at least one other recessed mounting surface 70 is configured to receive a respective mounting plate 66 of a respective one of the at least one other keyboard mounting mechanism 68. For example, with respect to the relationship between the recessed mounting surface 70 and at least one of the at least one other recessed mounting surface 70, the recessed mounting surface 70 is at least partially co-located with at least one of the at least one other recessed mounting surface 70.

[0121] A workstation assembly 28 is formed by mounting the keyboard support 10, including the above-described mounting functionality, to a workstation 26 with a mounting mechanism, such as mechanism 68.

(F) Substantially deterministic ergonomic positioning of mousepad surface 24

[0122] Referring to Figure 12 and 16, there is provided a keyboard-keyboard support combination, including a keyboard support 10 and a keyboard 14. The keyboard support 10 is configured for coupling to the keyboard 14, and includes a support surface 12 configured for supporting the keyboard 14, such that a reference axis 34 is defined by an axis which is normal to a plane 36 tangent to at least a portion of the support surface 12. The keyboard 14 includes a housing 16. The keyboard 14 and keyboard support 10 are co-operatively configured such that movement of the keyboard housing 16 relative to the keyboard support 12 is opposed when the keyboard 14 is supported on the keyboard support 10. The keyboard 14 further includes a QWERTY key area 20 including at least fifty (50) keys 80, and a mousepad 22 including a mousepad surface 24.

[0123] Referring to Figure 16, the minimum horizontal distance 78 between: (i) the space between the “G” and “H” keys, and (ii) a vertical plane 82 tangent to an edge 84 of the mousepad surface 24, is from about 5 inches to about 10 inches. For example, this minimum horizontal distance is from about 5 inches to about 9 inches. For example, this minimum horizontal distance is about 7.8 inches.

[0124] For example, with respect to the relationship between the keyboard 14 and the keyboard support 10, the keyboard 14 and keyboard surface are further co-operatively configured such that, when the keyboard 14 is coupled to the keyboard support 10 and supported by the support surface 12, and a force is applied to the keyboard housing 16 in an orthogonal direction relative to the reference axis 34, movement of the keyboard housing 16 is relative to the keyboard support 10.

[0125] For example, with further respect to the relationship between the keyboard 14 and the keyboard support 10, the keyboard includes an engagement assembly 40; and the

keyboard support 10 includes a retainer assembly 42, wherein the engagement assembly 40 is configured such that, when the keyboard 14 is coupled to the keyboard support 10 and supported by the support surface 12, the engagement assembly 40 co-operates with the retainer assembly 42 such that lateral movement of the keyboard housing 16 relative to the keyboard support 10 is opposed.

[0126] For example, with further respect to the relationship between the keyboard 14 and the keyboard support 10, the keyboard housing 16 includes an engagement tab assembly 40; and the keyboard support 10 includes a engagement surface assembly 42, wherein the engagement tab assembly 40 is configured to co-operate with the engagement surface assembly 42 such that movement of the keyboard housing 16 relative to the keyboard support is opposed when the keyboard 14 is supported on the support surface 10.

[0127] For example, with further respect to the relationship between the keyboard 14 and the keyboard support 10, the keyboard housing 16 includes an engagement tab assembly 40; and the keyboard support 10 includes a receiving well assembly, wherein the receiving well assembly is configured to receive the engagement tab assembly when the keyboard 14 is supported on the keyboard support. Further aspects of the engagement tab assembly 40 and the receiving well assembly are discussed above.

[0128] In one aspect, the keyboard 14 is coupled to the keyboard support 10 to form a coupled unit.

[0129] In another aspect, the keyboard support 10, being coupled to and supporting the keyboard 14, is coupled to a workstation 26 to form a workstation assembly 28. Figure 26 shows a conventional keyboard on keyboard tray/mousepad configuration. The mechanism 68 is attached by way of a track system under the desk 341. There are several ergonomic issues with this layout. The distance 431 between center line 331 and 411 denotes the user having to over-reach for the mouse 421 due to the location of the mousepad 371 to the far right of the user. This mousepad location is due to the very long keyboard tray 361 and the fact that the conventional keyboard 401 does not have provision for a mousepad. The stretching position of the user's right arm typically causes chronic pain in wrist, elbow,

shoulder and neck. As well, the user's posture is thrown off which typically causes improper back positioning and possible chronic back pain.

[0130] Figure 27 shows the user's improved positioning with the introduction of the keyboard 14 and keyboard support 10 combination (hereinafter "the combination"). The user is more centered in front of the QWERTY key area, the actual center being 561 between the "L" key 501 and the ";" key 511. To this, the distance 531, measured from the center line 551 to mousepad centerline 571 is a much smaller distance as compared to distance 431 in Figure 26 with the conventional arrangement. The user is in a comfortable, neutral position with the right arm more naturally bent at the elbow. This greatly reduces the strain placed on all critical points including neck, shoulder, elbow, forearm and wrist.

[0131] The overall length, and therefore footprint, is significantly less with the combination shown in Figure 27 as compared to the conventional tray/keyboard arrangement shown in Figure 26. The overall length 521, measured from 591 to 601 includes the keyboard 14, mousepad 22 and numeric keypad 461 (this embodiment of the keyboard includes a retractable and nestable numeric keypad) in the OUT position. This distance is much less than that of 441 shown in Figure 26, measured between 451 and 461. This reduction in required length can equate to significant savings in the corporate world, whereby more workstations can be added to the office floor plan.

[0132] Figure 28 shows another scenario often seen in an office environment – the corner desk 611. This poses challenge to the conventional tray/keyboard/mousepad arrangement due to the overall length 441 seen in Figure 26. The distance 671, measured between 641 and 661, denotes the part of the keyboard and mousepad that ends up under the corner desk arrangement. This forces the user to reach underneath desk to access the mouse, thereby either dropping their shoulder or pronating their right to an angle 791 seen in Figure 30, both undesirable actions resulting in chronic pain. Figure 29 shows the distance under desk 611 denoted by 751, measured between 731 and 741, which is significantly less than the distance 671 as seen in Figure 28. The strain placed on the user's right shoulder and wrist are eliminated and in a more natural, neutral position/posture. Access to both mouse 56 and numeric keypad 461 is greatly improved.

[0133] Also shown in Figure 28 is the position of the mousepad 371 directly beside the keyboard tray 36. Keyboard trays like these in the market are sold with the integrated mousepad. This position of the mouse causes the user to stretch the right shoulder and arm in order to reach the mouse 421. This stretching action causes the angle 691, as measured between the lines 701 and 711. The user's torso becomes twisted, which causes undue strain on the spine and neck. In Figure 29, this strain is eliminated by the close proximity of the mousepad 22 to the user. The user's posture is corrected whereby the angle 691, in Figure 28, is brought to a perpendicular 90° angle which creates a natural, neutral posture and eliminates strain on all critical points. Also, the user's torso is no longer twisted, thus reducing strain on spine and neck.

[0134] Figure 30 shows the conventional tray/keyboard arrangement from a side view perspective. The lower level position of the mousepad 371, as measured by 811, in relation to the keyboard tray and/or keyboard (depending on the vendor offering configuration) causes the user's wrist to pronate to an angle denoted by 791. This results in undue strain placed on the right wrist and can lead to chronic pain. Also, because of the tray/keyboard arrangement's overall thickness, the legroom beneath the tray 821 is typically inadequate for the user. More importantly, it restricts the user in terms of the height setting of the tray in relation to the user's height. This is especially an issue for shorter users that need the tray be set in a very low position but can't do this because their legs hit the underside of the tray before the optimal setting is achieved.

[0135] Figure 31 shows the above-described combination. With the tray mechanism 68 set to the proper height, the user's arm is bent at a natural, neutral 90° angle. In this position, the user's wrist is completely straight, with the pronation angle completely eliminated, as denoted by 831 and therefore the potential for chronic wrist pain is eliminated. Also in Figure 31, the combination addresses the legroom issue seen in Figure 30. This is made possible by the thinner profile of the combination since the tray is eliminated and the integrated mousepad 22 is the same height as the keyboard. This results in a greater legroom 851 and more setting options for the user, especially the shorter user.



[0136] For example, the mousepad surface 24 is disposed in substantially the same plane as an upper surface of the key area 20.

(G) Ballast provided in keyboard support

[0137] Referring to Figure 5, a ballast assembly is provided to contribute additional weight to the keyboard support 12.

[0138] The keyboard support 10 includes a plastic support assembly 1101, including the support surface 12 configured for supporting the keyboard 14. For example, the plastic support assembly 1101 includes a plurality of reinforcement ribs 1103.

[0139] A ballast assembly is provided including at least one ballast 600. For example, in the embodiment illustrated in Figure 5, the ballast assembly includes two ballasts 600. Each one of the at least one ballast 600 is coupled to the plastic support assembly 1101. The ballast assembly is provided to contribute additional weight to the keyboard support 10, so that the keyboard support 10 can be mounted to and used with available multi-position adjustable keyboard supporting mechanisms 68 which have a tendency to . In this respect, a ballast can be provided such that the keyboard support includes at least about 25 weight percent of the at least one ballast based on the total weight of the keyboard support. In another respect, the provided ballast is a metal ballast, such as a steel ballast.

[0140] For example, with respect to the coupling of each one of the at least one ballast 600 to the plastic support assembly 1101, each one of the at least one ballast is coupled to the plastic support assembly by way of snap fit engagement. For example, the snap-fit engagement is effected between opposing reinforcement ribs 1103 of the plastic support assembly 1101. For example, the reinforcement ribs 1103 include tapered guides 1105 for guiding each of the at least one ballast 600 into snap fit engagement with the reinforcement ribs 1103.

(H) Thickness of keyboard-keyboard support combination

[0141] Referring to Figure 17, there is provided a combination of the keyboard 14 and the keyboard support 10. The keyboard 14 is supported on the keyboard support 10. The maximum thickness of the combination of the keyboard support and the supported keyboard is less than about 2 inches. For example, the thickness is 1.69 inches.

[0142] While this invention has been described with reference to illustrative embodiments and examples, the description is not intended to be construed in a limiting sense. Thus, various modifications of the illustrative embodiments, as well as other embodiments of the invention, will be apparent to persons skilled in the art upon reference to this description. It is therefore contemplated that the appended claims will cover any such modifications or embodiments. Further, all of the claims are hereby incorporated by reference into the description of the preferred embodiments.

## CLAIMS

1. A keyboard-keyboard support combination comprising:
  - a keyboard including a keyboard housing;
  - a keyboard support including a support surface, wherein the support surface is configured for supporting the keyboard;
  - an engagement tab projecting from one of the keyboard and the keyboard support;
  - and
  - an engagement surface provided on the other one of the keyboard and the keyboard support;

wherein the engagement tab is configured to co-operate with the engagement surface so that the engagement surface opposes movement of the engagement tab relative to the keyboard support when the keyboard is supported on the keyboard support.
2. The keyboard and keyboard support combination as claimed in claim 1, wherein the engagement tab extends across a reference plane which is tangent to a portion of the support surface of the keyboard support.
3. The keyboard-keyboard support combination as claimed in claim 1, wherein an engagement surface reference plane is defined by a plane tangent to the engagement surface, and wherein the engagement surface reference plane traverses a horizontal plane when the keyboard is supported on the keyboard support.
4. The keyboard-keyboard support combination as claimed in claim 1, wherein the support surface of the keyboard support is configured to provide vertical support to the keyboard.

5. The keyboard-keyboard support combination as claimed in claim 1, wherein the engagement surface is configured to be disposed in opposition to the engagement tab when the keyboard is supported on the keyboard support.
6. The keyboard-keyboard support combination as claimed in claim 5, wherein the engagement surface includes a minimum surface area of 0.03 square inches.
7. The keyboard and keyboard support combination as claimed in claim 1, wherein the engagement tab is configured to co-operate with the engagement surface so that the engagement surface opposes movement of the engagement tab and thereby opposes lateral movement of the keyboard housing relative to the keyboard support surface, when the keyboard is supported on the keyboard support surface.
8. The keyboard and keyboard support combination as claimed in claim 7, wherein the lateral movement of the keyboard housing being opposed is that movement which would be lateral relative to a support surface reference axis defined by an axis which is normal to a plane tangent to a portion of the support surface.
9. The keyboard and keyboard support combination as claimed in claim 7, wherein the lateral movement of the keyboard housing being opposed is sideways movement.
10. The keyboard-keyboard support combination as claimed in claim 7, wherein the lateral movement being limited is that movement which would be effected by an application of force to the keyboard in a direction orthogonal to a support surface reference axis defined by an axis which is normal to a plane tangent to at least a portion of the support surface.
11. The keyboard-keyboard support combination as claimed in claim 1, wherein the engagement tab is configured to co-operate with the engagement surface such that the engagement surface opposes movement of the engagement tab and thereby opposes movement of the keyboard housing relative to a support surface reference axis defined by an axis which is normal to a plane tangent to at least a portion of the support surface, when the keyboard is supported on the support surface.

12. The keyboard-keyboard support combination as claimed in claim 1, wherein the engagement tab is configured to co-operate with the engagement surface such that the engagement surface opposes movement of the engagement tab which would be effected by an application of force to the keyboard in a direction orthogonal to a support surface reference axis defined by an axis which is normal to a plane tangent to at least a portion of the support surface, when the keyboard is supported on the support surface.

13. The keyboard-keyboard support combination as claimed in claim 1, wherein the engagement tab is configured to be disposed in an interference fit relationship with the engagement surface when the keyboard is supported on the keyboard support.

14. The keyboard-keyboard support combination as claimed in claim 1, wherein the engagement tab is configured to be disposed in a snap-fit relationship with the engagement surface when the keyboard is supported on the keyboard support.

15. The keyboard and keyboard support combination as claimed in claim 1, wherein the engagement tab projects from the keyboard, and wherein the engagement surface is provided on the keyboard support.

16. A keyboard-keyboard support combination comprising:

a keyboard;

a keyboard support including a support surface, wherein the support surface is configured for supporting the keyboard;

an engagement tab projecting from one of the keyboard and the keyboard support;

a receiving well provided within the other one of the keyboard and the keyboard support;

wherein the receiving well is configured to receive the engagement tab when the keyboard is supported on the support surface.

17. The keyboard and keyboard support combination as claimed in claim 16, wherein the engagement tab projects from the keyboard, and wherein the receiving well is provided on the keyboard support.

18. The keyboard and keyboard support combination as claimed in claim 16, wherein the engagement tab is configured to be received within the receiving well when the keyboard is supported on the support surface such that movement of the engagement tab is opposed by the receiving well when the keyboard is supported on the keyboard support.

19. A keyboard-keyboard support combination comprising:

a keyboard including a keyboard housing;

a keyboard support including a support surface, wherein the support surface is configured for supporting the keyboard;

an engagement tab assembly; and

an engagement surface assembly;

wherein the engagement tab assembly is configured to co-operate with the engagement surface assembly such that movement of the keyboard housing relative to the keyboard support is opposed when the keyboard is supported on the support surface.

20. The keyboard-keyboard support combination as claimed in claim 19, wherein the engagement tab assembly is configured to co-operate with the engagement surface assembly such that lateral movement of the keyboard housing relative to the keyboard support is opposed when the keyboard is supported on the support surface.

21. The keyboard-keyboard support combination as claimed in claim 20, wherein the lateral movement being opposed is sideways movement.

22. The keyboard-keyboard support combination as claimed in claim 20, wherein the engagement tab assembly and the engagement surface assembly are co-operatively

configured so as to substantially prevent lateral movement of the keyboard housing relative to the keyboard support when the keyboard is supported on the support surface.

23. The keyboard-keyboard support combination as claimed in claim 22, wherein the lateral movement being substantially prevented is sideways movement.

24. The keyboard-keyboard support combination as claimed in claim 19;

wherein the engagement tab assembly includes at least one engagement tab, and wherein each one of the at least one engagement tab projects from any one of the keyboard, the keyboard support, or a combination thereof;

and wherein the engagement surface assembly includes at least one engagement surface, and wherein each one of the at least one engagement surface is configured to oppose movement of a respective one of the at least one engagement tab relative to the other one of the keyboard or the keyboard housing from which the respective one of the at least one engagement tab projects, when the keyboard is supported on the keyboard support.

25. The keyboard-keyboard support as claimed in claim 24,

wherein, for each one of the at least one engagement tab projects from the keyboard, the respective one of the at least one engagement surface is provided in the keyboard support;

and wherein, for each one of the at least one engagement tab projecting from the keyboard support, the respective one of the at least one receiving surface is provided in the keyboard.

26. The keyboard-keyboard support as claimed in claim 24, wherein each one of the at least one engagement tab is projecting from the keyboard, and wherein each one of the at least one engagement surface is provided in the keyboard support.

27. The keyboard-keyboard support combination as claimed in claim 19, wherein the engagement tab assembly is configured to co-operate with the engagement surface assembly so as to oppose movement of the keyboard housing in a direction orthogonal to a support

surface reference axis defined by an axis which is normal to plane tangent to at least a portion of the support surface, when the keyboard is supported on the keyboard support.

28. The keyboard-keyboard support combination as claimed in claim 27, wherein the engagement tab assembly is configured to co-operate with the engagement surface assembly so as to substantially prevent movement of the keyboard housing in a direction orthogonal to a support surface reference axis defined by an axis which is normal to plane tangent to at least a portion of the support surface, when the keyboard is supported on the keyboard support.

29. The keyboard-keyboard support combination as claimed in claim 19, wherein the engagement tab assembly is configured to co-operate with the engagement surface assembly so as to oppose movement of the keyboard relative to the keyboard support when a force is applied to the keyboard housing in a direction orthogonal to the reference axis when the keyboard is supported on the keyboard support.

30. The keyboard-keyboard support combination as claimed in claim 29, wherein the engagement tab assembly is configured to co-operate with the engagement surface assembly so as to substantially prevent movement of the keyboard relative to the keyboard support when a force is applied to the keyboard housing in a direction orthogonal to the reference axis when the keyboard is supported on the keyboard support.

31. The keyboard and keyboard support combination as claimed in claim 24, wherein each one of the at least one engagement surface is configured to receive a respective one of the at least one engagement tab when the keyboard is supported on the keyboard support such that each one of the at least one engagement surface is disposed in an interference fit relationship with the respective one of the at least one engagement tab.

32. A keyboard-keyboard support combination comprising:

a keyboard including a keyboard housing;



a keyboard support including a support surface, wherein the support surface is configured for supporting the keyboard;

an engagement tab assembly; and

a receiving well assembly;

wherein the receiving well assembly is configured to receive the engagement tab assembly when the keyboard is supported on the keyboard support.

33. The keyboard-keyboard support combination,

wherein the engagement tab assembly includes at least one engagement tab projecting from any one of the keyboard, the keyboard support, or a combination thereof;

and wherein the receiving well assembly includes at least one receiving well;

wherein each one of the at least one receiving well is configured to receive a respective at least one of the at least one engagement tab, such that each one of the at least one engagement tab is configured to be received by a one of the at least one receiving well when the keyboard is supported on the keyboard support.

34. The keyboard-keyboard support as claimed in claim 33

wherein, for each one of the respective at least one of the at least one engagement tab projecting from the keyboard and is configured to be received by a one of the at least one receiving well when the keyboard is supported on the keyboard support, the one of the at least one receiving well is provided in the keyboard support;

and wherein, for each one of the respective at least one of the at least one engagement tab projecting from the keyboard support and configured to be received by a one of the at least one receiving well when the keyboard is supported on the keyboard support, the one of the at least one receiving well is provided in the keyboard.

35. The keyboard-keyboard support combination as claimed in claim 33, wherein the at least one receiving well is a plurality of receiving wells, and wherein the at least one engagement tab is a plurality of engagement tabs, and wherein each one of the plurality of engagement tabs corresponds to a respective one of the plurality of receiving wells, such that each one of plurality of engagement tabs is configured to be received by the respective one of the plurality of receiving wells when the keyboard is supported on the keyboard support.

36. The keyboard-keyboard support as claimed in claim 35,

wherein, for each one of the plurality of engagement tabs projecting from the keyboard, the respective one of the plurality of receiving wells is provided in the keyboard support;

and wherein, for each one of the plurality of engagement tabs projecting from the keyboard support, the respective one of the plurality of receiving wells is provided in the keyboard.

37. The keyboard and keyboard support combination as claimed in claim 33, wherein each one of the at least one receiving well is configured to receive a respective at least one of the at least one engagement tab when the keyboard is supported on the keyboard support such that movement of each one of the respective at least one of the at least one engagement tab is opposed by the one of the at least one receiving well which receives the respective at least one of the at least one engagement tab when the keyboard is supported on the keyboard support.

38. The keyboard and keyboard support combination as claimed in claim 33, wherein each one of the at least one receiving well is configured to receive a respective at least one of the at least one engagement tab when the keyboard is supported on the keyboard support such that movement of each one of the respective at least one of the at least one engagement tab is opposed by the one of the at least one receiving well which receives the respective at least one of the at least one engagement tab, such that lateral movement of the keyboard

housing is relative to the keyboard support surface is thereby opposed when the keyboard is supported on the support surface.

39. The keyboard and keyboard support combination as claimed in claim 33, wherein each one of the at least one receiving well is configured to receive a respective at least one of the at least one engagement tab when the keyboard is supported on the keyboard support such that movement of each one of the respective at least one of the at least one engagement tab is opposed by the one of the at least one receiving well which receives the respective at least one of the at least one engagement tab, such that movement of the keyboard housing relative to a support surface reference axis defined by an axis which is normal to a plane tangent to at least a portion of the support surface is thereby opposed when the keyboard is supported on the support surface.

40. The keyboard and keyboard support combination as claimed in claim 33, wherein each one of the at least one receiving well is configured to receive a respective at least one of the at least one engagement tab when the keyboard is supported on the keyboard support such that movement of each one of the at least one of the at least one engagement tab which is effected by an application of force to the keyboard in a direction orthogonal to a support surface reference axis defined by an axis which is normal to a plane tangent to at least a portion of the support surface is opposed by the one of the at least one receiving wells which receives the respective at least one of the at least one engagement tabs when the keyboard is supported on the keyboard support.

41. The keyboard and keyboard support combination as claimed in claim 33, wherein each one of the at least one receiving well is configured to receive a respective at least one of the at least one engagement tab when the keyboard is supported on the keyboard support such that each one of the at least one receiving well is disposed in an interference fit relationship with the respective at least one of the at least one engagement tab.

42. The keyboard-keyboard support as claimed in claim 33, wherein each one of the at least one engagement tab is projecting from the keyboard, and wherein each one of the at least one receiving well is provided in the keyboard support.

43. A keyboard configured for being supported by a keyboard support, wherein the keyboard support includes a support surface configured for supporting the keyboard and also includes one of an engagement tab or an engagement surface, comprising:

a keyboard housing; and

the other one of the engagement tab or the engagement surface;

wherein the engagement tab is configured to co-operate with the engagement surface so that the engagement surface opposes movement of the engagement tab.

44. A keyboard support configured for supporting a keyboard, wherein the keyboard includes a housing and also includes one of an engagement tab or an engagement surface, comprising:

a support surface configured for supporting the keyboard; and

the other one of the engagement tab and the engagement surface;

wherein the engagement tab is configured to co-operate with the engagement surface so that the engagement surface opposes movement of the engagement tab.

45. A keyboard configured for being supported by a keyboard support, wherein the keyboard support includes a support surface configured for supporting the keyboard and also includes one of an engagement tab or a receiving well, comprising:

a keyboard housing; and

the other one of the engagement tab or the receiving well;

wherein the receiving well is configured to receive the engagement tab when the keyboard is supported on the support surface.

46. A keyboard support configured for supporting a keyboard, wherein the keyboard includes a housing and also includes one of an engagement tab or an engagement surface, comprising:

a support surface configured for supporting the keyboard; and

the other one of the engagement tab or the engagement surface;

wherein the receiving well is configured to receive the engagement tab when the keyboard is supported on the support surface.

47. A keyboard configured for being supported by a keyboard support, wherein the keyboard support includes a support surface configured for supporting the keyboard and also includes one of an engagement tab assembly or an engagement surface assembly, comprising:

a keyboard housing;

the other one of the engagement tab assembly and the engagement surface assembly;

wherein the engagement tab assembly is configured to co-operate with the engagement surface assembly such that movement of the keyboard housing relative to the keyboard is opposed when the keyboard is supported on the support surface.

48. A keyboard support configured for supporting a keyboard, wherein the keyboard includes a housing and also includes one of an engagement tab assembly or an engagement surface assembly, comprising:

a support surface configured for supporting the keyboard; and

the other one of the engagement tab assembly and the engagement surface assembly;

wherein the engagement tab assembly is configured to co-operate with the engagement surface assembly such that movement of the keyboard housing relative to the keyboard is opposed when the keyboard is supported on the support surface.

49. A keyboard configured for being supported by a keyboard support, wherein the keyboard support includes a support surface configured for supporting the keyboard and also includes one of a plurality of engagement tabs or a plurality of receiving wells, comprising:

a keyboard housing; and

the other one of the plurality of engagement tabs or the plurality of receiving wells;

wherein each one of the plurality of receiving wells is configured to receive a respective at least one of the plurality of engagement tabs, such that each one of the plurality of engagement tabs is configured to be received by a one of the plurality of receiving wells when the keyboard is supported on the keyboard support.

50. A keyboard support configured for supporting a keyboard, wherein the keyboard includes a housing and also includes one of a plurality of engagement tabs or a plurality of receiving wells, comprising:

a support surface configured for supporting the keyboard; and

the other one of the plurality of engagement tabs or the plurality of receiving wells;

wherein each one of the plurality of receiving wells is configured to receive a respective at least one of the plurality of engagement tabs, such that each one of the plurality of engagement tabs is configured to be received by a one of the plurality of receiving wells when the keyboard is supported on the keyboard support.

51. A keyboard – keyboard support combination comprising:

a keyboard; and

a keyboard support;

wherein the keyboard is configured to be coupled to the keyboard support by way of snap-fit engagement.

52. The keyboard-keyboard support combination as claimed in claim 51, wherein the keyboard includes a keyboard housing, and wherein the coupling effects opposition to movement of the keyboard housing in substantially every direction relative to the keyboard support when the keyboard is supported on the keyboard support.

53. The keyboard-keyboard support combination as claimed in claim 51, further comprising:

a retainer tab assembly; and

a receiving assembly;

wherein the receiving assembly is configured to receive the retainer tab assembly when the keyboard is supported on the keyboard support so as to effect the coupling of the keyboard to the keyboard support when the keyboard is supported on the keyboard support such that movement of the keyboard housing is opposed in substantially every direction relative to the keyboard support.

54. The keyboard-keyboard support combination as claimed in claim 53,

wherein the retainer tab assembly includes at least one retainer tab;

and wherein the receiving assembly including at least one recess;

and wherein each one of the at least one recess is configured to receive a respective at least one of the at least one retainer tab when the keyboard is supported on the keyboard support, such that each one of the at least one of the at least one retainer tab is configured to be received by a one of the at least one recess when the keyboard is supported on the keyboard support such that movement of the keyboard housing is opposed in substantially every direction relative to the keyboard support.

55. The keyboard-keyboard support combination as claimed in claim 54, wherein each one of the at least one retainer tab projects from any one of the keyboard, the keyboard support, or a combination thereof.

56. The keyboard-keyboard support as claimed in claim 55,

wherein, for each one of the respective at least one of the at least one retainer tab projecting from the keyboard and configured to be received by a one of the at least one recesses when the keyboard is supported on the keyboard support, the one of the at least one recess is provided in the keyboard support;

and wherein, for each one of the respective at least one of at least one retainer tab projecting from the keyboard support and configured to be received by a one of the at least one recess when the keyboard is supported on the keyboard support, the one of the at least one recess is provided in the keyboard.

57. The keyboard-keyboard support combination as claimed in claim 55, wherein each one of the at least one retainer tab corresponds to a respective one of the at least one recess, such that each one of the at least one retainer tab is configured to be received by the respective one of the at least one recess when the keyboard is supported on the keyboard support such that movement of the keyboard housing is opposed in substantially every direction relative to the keyboard support.

58. The keyboard-keyboard support combination as claimed in claim 54, wherein each one of the at least one retainer tab projects from the keyboard support, and wherein each one of the at least one recess is provided in the keyboard.

59. A keyboard-keyboard support combination, comprising:

a keyboard including a housing; and

a keyboard support;

a retainer tab assembly;

a receiving assembly;



wherein the receiving assembly is configured to receive the retainer tab assembly when the keyboard is supported on the keyboard support so as to effect coupling of the keyboard to the keyboard support such that the movement of the keyboard housing is opposed in substantially every direction relative to the keyboard support when the keyboard is supported on the keyboard support.

60. The keyboard-keyboard support combination as claimed in claim 59, wherein the retainer assembly includes at least one retainer tab, and wherein the receiving assembly is configured to receive each one of the at least one retainer tab when the keyboard is supported on the keyboard support so as to effect the coupling of the keyboard to the keyboard support such that movement of the keyboard housing is opposed in substantially every direction relative to the keyboard support.

61. The keyboard-keyboard support combination as claimed in claim 60, wherein each one of the at least one retainer tab projects from any one of the keyboard, the keyboard support, or a combination thereof.

62. The keyboard-keyboard support combination as claimed in claim 61, wherein the receiving assembly includes at least one recess, and wherein each one of the at least one recess is configured to receive a respective at least one of the at least one retainer tab when the keyboard is supported on the keyboard support so as to effect the coupling of the keyboard to the keyboard support such that movement of the keyboard housing is opposed in substantially every direction relative to the keyboard support, such that each one of the at least one retainer tab is configured to be received by a one of the at least one of recess when the keyboard is supported on the keyboard.

63. The keyboard-keyboard support combination as claimed in claim 59, wherein the coupling of the keyboard to the keyboard support is effected by way of snap-fit engagement.

64. The keyboard-keyboard support combination as claimed in claim 63, wherein at least one of the respective at least one of the at least one retainer tab is configured to be disposed in a snap-fit relationship with a respective one of the at least one recess which receives the

respective at least one of the at least one retainer tab when the keyboard is supported on the keyboard support.

65. The keyboard-keyboard support combination as claimed in claim 64, further comprising a guide assembly for facilitating the receiving of each one of the at least one of the respective at least one of the at least one retainer tab configured to be disposed in a snap-fit relationship with a one of the at least one recess which receives the respective at least one of the at least one retainer tab when the keyboard is supported on the keyboard support by the respective one of the at least one recess.

66. The keyboard-keyboard support combination as claimed in claim 59, wherein the keyboard support further includes a mounting surface configured for attachment to a multi-position adjustable keyboard supporting mechanism.

67. A keyboard – keyboard support combination comprising:

a keyboard; and

a keyboard support;

wherein the keyboard is coupled to the keyboard support by way of snap-fit engagement.

68. A keyboard – keyboard support combination comprising:

a keyboard support; and

a keyboard including a keyboard housing;

a retainer tab assembly;

a receiving assembly;

wherein the receiving assembly receives the retainer tab assembly and thereby effects coupling of the keyboard to the keyboard support such that movement of the keyboard housing is opposed in substantially every direction relative to the keyboard support.

69. A workstation assembly comprising:

a workstation;

a keyboard support coupled to the workstation; and

a keyboard coupled to the keyboard support by way of snap-fit engagement.

70. A workstation assembly comprising:

a workstation;

a keyboard support coupled to the workstation; and

a keyboard including a keyboard housing;

a retainer tab assembly;

a receiving assembly;

wherein the receiving assembly is receives the retainer tab assembly and thereby effects coupling of the keyboard to the keyboard support such that movement of the keyboard housing is opposed in substantially every direction relative to the keyboard support.

71. A keyboard support configured for coupling to a keyboard by way of snap-fit engagement, wherein the keyboard support is configured for supporting the keyboard.

72. A keyboard configured for coupling to a keyboard support by way of snap-fit coupling, wherein the keyboard support is configured for supporting the keyboard.

73. A keyboard support configured for coupling to a keyboard including a housing and a receiving assembly, comprising:

a retaining tab assembly;

wherein the retaining tab assembly is configured to be received by the receiving assembly so as to effect coupling of the keyboard to the keyboard support such that movement of the keyboard housing is opposed in substantially every direction relative to the keyboard support.

74. A keyboard configured for being supported by and being coupled to a keyboard support, wherein the keyboard support includes a support surface configured for supporting the keyboard and also includes a receiving assembly, comprising:

a retaining tab assembly;

wherein the retaining tab assembly is configured to be received by the receiving assembly so as to effect coupling of the keyboard to the keyboard support such that movement of the keyboard housing is opposed in substantially every direction relative to the keyboard support.

75. A method of attaching a keyboard to a keyboard support comprising:

providing a keyboard including a receiving assembly including a first recess provided in a first keyboard surface portion of the keyboard and a second recess provided in a second keyboard surface portion of the keyboard, wherein the second keyboard surface portion is disposed opposite to the first portion;

providing a keyboard support including an operative support surface configured for supporting the keyboard and also including a retainer tab assembly including:

a first retaining tab assembly projecting from a first keyboard support surface portion and including a first retaining tab configured for insertion into the first recess; and

a second retaining tab assembly projecting from a second keyboard support surface portion and including a second retaining tab configured for insertion into the second recess,

wherein the second retaining tab assembly includes resilient material for facilitating bending of the second retaining tab;

inserting the first retaining tab into the first recess of the keyboard;

bending the second retaining tab assembly away from the second keyboard surface portion so as to permit alignment of the second retaining tab with the second recess; and

inserting the second retaining tab into the second recess of the keyboard.

76. A keyboard comprising:

a key section including a plurality of data input keys;

a mousepad section including a mousepad surface; and

a mouse retainer disposed peripherally relative to the mousepad surface;

such that, when a mouse device is disposed on a portion of the mousepad surface, and the portion of the mousepad surface is substantially horizontal, and the keyboard is then repositioned so that the portion of the mousepad surface becomes disposed at a sufficient angle relative to the horizontal such that gravitational force effects movement of the mouse device, the mouse device is prevented from sliding off the keyboard by the mouse retainer.

77. The keyboard as claimed in claim 76, wherein the keyboard includes a front end and a rear end, wherein the mouse retainer is disposed rearwardly relative to the mousepad surface, such that, when a mouse device is disposed on a portion of the mousepad surface, and the portion of the mousepad surface is substantially horizontal, and the keyboard is then tilted so that the front end is disposed at a sufficiently higher vertical position relative to the rear end such that gravitational force effects movement of the mouse device in the rearward direction, the mouse device is prevented from sliding off the rear end of the keyboard by the mouse retainer.

78. The keyboard as claimed in claim 77, wherein the mouse retainer extends substantially across the rear edge of the mousepad surface.

79. The keyboard as claimed in claim 76, wherein the mousepad surface includes a surface area of at least 22 square inches.

80. A keyboard-keyboard support combination, wherein the keyboard is supported by the keyboard support, comprising:

a QWERTY key area including at least 50 keys; and

a mousepad surface;

wherein the maximum width of the keyboard support is less than about 19 inches.

81. The keyboard-keyboard support combination as claimed in claim 79, wherein the mousepad surface includes a surface area of at least 22 inches squared.

82. The keyboard-keyboard support combination as claimed in claim 79, wherein the maximum width of the keyboard support is less than about 17 inches.

83. The keyboard-keyboard support combination as claimed in claim 79, wherein the minimum width of each of the keys is at least about 0.40 inches.

84. A keyboard-keyboard support combination, comprising:

a keyboard support;

a keyboard, supported by the keyboard support, and including:

a QWERTY key area including at least 50 keys; and

a mousepad surface;

wherein the maximum width of the keyboard support is less than about 19 inches.

85. A workstation assembly comprising:

a workstation; and

a keyboard-keyboard support combination coupled to the workstation, wherein the keyboard is supported by the keyboard support, including:

a QWERTY key area including at least 50 keys; and

a mousepad surface;

wherein the maximum width of the keyboard support is less than about 19 inches.

86. A workstation assembly comprising:

a workstation; and

a keyboard-keyboard support combination coupled to the workstation, including:

a keyboard support;

a keyboard, supported by the keyboard support, and including:

a QWERTY key area including at least 50 keys; and

a mousepad surface;

wherein the maximum width of the keyboard support is less than about 19 inches.

87. A keyboard support configured for receiving and attaching to a mounting plate of a mounting plate of a keyboard mounting mechanism, comprising a recessed mounting surface corresponding to the mounting plate of the keyboard mounting mechanism, wherein the recessed mounting surface is configured to receive the mounting plate and effect coupling of the mounting plate to the mounting surface.

88. A keyboard-keyboard support combination comprising:

a keyboard support configured for receiving and attaching to a mounting plate of a mounting plate of a keyboard mounting mechanism, comprising a recessed mounting surface

corresponding the mounting plate of the keyboard mounting mechanism, wherein the recessed mounting surface is configured to receive the mounting plate and effect coupling of the mounting plate to the mounting surface;

a keyboard configured to be supported by the keyboard support.

89. A keyboard support configured for receiving and attaching to a mounting plate of any one of a plurality of keyboard mounting mechanisms, wherein each one of the plurality of keyboard mounting mechanism is configured for coupling to a workstation, and wherein a respective mounting plate of one of the plurality of keyboard mounting mechanisms is shaped differently relative to a respective mounting plate of each one of the other ones of the plurality of keyboard mounting mechanisms, comprising:

a plurality of recessed mounting surfaces corresponding to the plurality of keyboard mounting mechanisms, wherein each one of the plurality of recessed mounting surfaces is configured to receive a respective mounting plate of a respective one of the plurality of keyboard mounting mechanisms.

90. The keyboard support as claimed in claim 86, wherein at least one of the plurality of recessed mounting surfaces is at least partially co-located with at least one other one of the plurality of recessed mounting surfaces.

91. A keyboard-keyboard support combination, comprising:

a keyboard; and

a keyboard support including a support surface configured for supporting the keyboard;

wherein the keyboard is also configured for receiving and attaching to a mounting plate of any one of a plurality of keyboard mounting mechanisms, wherein each one of the plurality of keyboard mounting mechanisms is configured for coupling to a workstation, and wherein a respective mounting plate of one of the plurality of keyboard mounting mechanisms is shaped differently relative to a respective mounting plate of each one of the



other ones of the plurality of keyboard mounting mechanisms, and wherein the keyboard support further comprises:

a plurality of recessed mounting surfaces, wherein each one of the plurality of recessed mounting surfaces corresponds to a respective one of the plurality of keyboard mounting mechanisms, and wherein each one of the plurality of recessed mounting surfaces is configured to receive a respective mounting plate of a respective one of the plurality of keyboard mounting mechanisms.

92. A workstation system comprising:

a workstation;

a keyboard mounting mechanism configured for coupling to the workstation and including a mounting plate;

a keyboard;

a keyboard support configured for receiving and attaching to the mounting plate, and including a recessed mounting surface configured for receiving the mounting plate, and also including a support surface configured for supporting the keyboard;

wherein the keyboard is also configured for receiving and attaching to a mounting plate of any one of at least one other keyboard mounting mechanism, wherein each one of the at least one other keyboard mounting mechanism is configured for coupling to the workstation, and wherein a respective mounting plate of a one of the combination of the keyboard mounting mechanism and the at least one other keyboard mounting mechanism is shaped differently relative to a respective mounting plate of each one of the other ones of the combination of the keyboard mounting mechanism and the at least one other keyboard mounting mechanism, and wherein the keyboard support further comprises:

at least one other recessed mounting surface, wherein each one of the at least one other recessed mounting surface corresponds to a respective one of the at least one other keyboard mounting mechanism, and wherein each one of the at least one

other recessed mounting surface is configured to receive a respective mounting plate of a respective one of the at least one other keyboard mounting mechanism.

93. A workstation assembly comprising:

a workstation;

a keyboard mounting mechanism coupled to the workstation and including a mounting plate;

a keyboard;

a keyboard support attached to the mounting plate, and including a recessed mounting surface receiving the mounting plate, and also including a support surface supporting the keyboard;

wherein the keyboard is also configured for receiving and attaching to a mounting plate of any one of at least one other keyboard mounting mechanism, wherein each one of the at least one other keyboard mounting mechanism is configured for coupling to the workstation, and wherein a respective mounting plate of a one of the combination of the keyboard mounting mechanism and the at least one other keyboard mounting mechanism is shaped differently relative to a respective mounting plate of each one of the other ones of the combination of the keyboard mounting mechanism and the at least one other keyboard mounting mechanism, and wherein the keyboard support further comprises:

at least one other recessed mounting surface corresponding to each one of the at least one other keyboard mounting mechanism, wherein each one of the at least one other recessed mounting surface is configured to receive a respective mounting plate of a respective one of the at least one other keyboard mounting mechanism.

94. A workstation assembly comprising:

a workstation;

a keyboard support coupled to the workstation;

a keyboard including a housing, wherein the keyboard is supported by and coupled to the keyboard support such that lateral movement of the keyboard housing relative to the keyboard support is thereby opposed, and further including:

a QWERTY key arrangement including at least 50 keys; and

a mousepad surface;

wherein the minimum horizontal distance between: (i) the space between the "G" and "H" keys, and (ii) a vertical plane tangent to an edge of the mousepad surface closest to the key, is from about 5 inches to about 10 inches.

95. The keyboard-keyboard support combination as claimed in claim 93, wherein the minimum horizontal distance between: (i) the space between the "G" and "H" keys, and (ii) a vertical plane tangent to an edge of the mousepad surface closest to the key, is from about 5 inches to about 9 inches.

96. A keyboard-keyboard support combination, comprising:

a keyboard including a housing;

a keyboard support configured for coupling to the keyboard, and including a support surface configured for supporting the keyboard;

wherein the keyboard and keyboard support are co-operatively configured such that, when the keyboard is coupled to the keyboard support and supported by the support surface, lateral movement of the keyboard housing relative to the keyboard support is thereby opposed;

and wherein the keyboard further includes:

a QWERTY key arrangement including at least 50 keys; and

a mousepad surface;

wherein the minimum horizontal distance between: (i) the space between the “G” and “H” keys, and (ii) a vertical plane tangent to an edge of the mousepad surface closest to the key, is from about 5 inches to about 10 inches.

97. The keyboard-keyboard support combination as claimed in claim 95, wherein the mousepad surface includes a surface area of at least 22 inches squared.

98. The keyboard-keyboard support combination as claimed in claim 95, wherein the keyboard and keyboard surface are further co-operatively configured such that, when the keyboard is coupled to the keyboard support and supported by the support surface, and a force is applied to the keyboard housing in an orthogonal direction relative to the reference axis, movement of the keyboard housing relative to the keyboard support is opposed.

99. The keyboard-keyboard support combination as claimed in claim 95, further comprising:

an engagement tab assembly;

an engagement surface assembly;

wherein the engagement tab assembly is configured to co-operate with the engagement surface assembly such that movement of the keyboard housing relative to the keyboard is opposed when the keyboard is supported on the support surface.

100. The keyboard-keyboard support combination as claimed in claim 95, further comprising:

an engagement tab assembly; and

a receiving well assembly;

wherein the receiving well assembly is configured to receive the engagement tab assembly when the keyboard is supported on the keyboard support such that movement of the

keyboard housing relative to the keyboard is opposed when the keyboard is supported on the support surface.

101. A keyboard support comprising:

a plastic support assembly, including a support surface configured for supporting a keyboard;

a ballast assembly including at least one ballast, wherein each of the one ballast is coupled to the plastic support assembly, wherein the keyboard support includes at least 25 weight percent of the at least one ballast based on the total weight of the keyboard support; and

wherein the ballast assembly is provided to contribute additional weight to the keyboard support.

102. A keyboard support comprising:

a plastic support assembly, including a support surface configured for supporting a keyboard; and

a ballast assembly including at least one metal ballast, wherein each one of the at least one metal ballast is coupled to the plastic support assembly;

wherein the ballast assembly is provided to contribute additional weight to the keyboard support.

103. A keyboard-keyboard support combination comprising:

a keyboard; and

a keyboard support including:

a plastic support assembly, including a support surface configured for supporting a keyboard;

a ballast assembly including at least one ballast, wherein each one of the at least one ballast is coupled to the plastic support assembly, wherein the keyboard support includes at least 25 weight percent of the at least one ballast based on the total weight of the keyboard support; and

wherein the ballast assembly is provided to contribute additional weight to the keyboard support.

104. A keyboard-keyboard support comprising:

a keyboard; and

a keyboard support including:

a plastic support assembly, including a support surface configured for supporting a keyboard.; and

a ballast assembly including at least one metal ballast, wherein each one of the at least one metal ballast is coupled to the plastic support assembly;

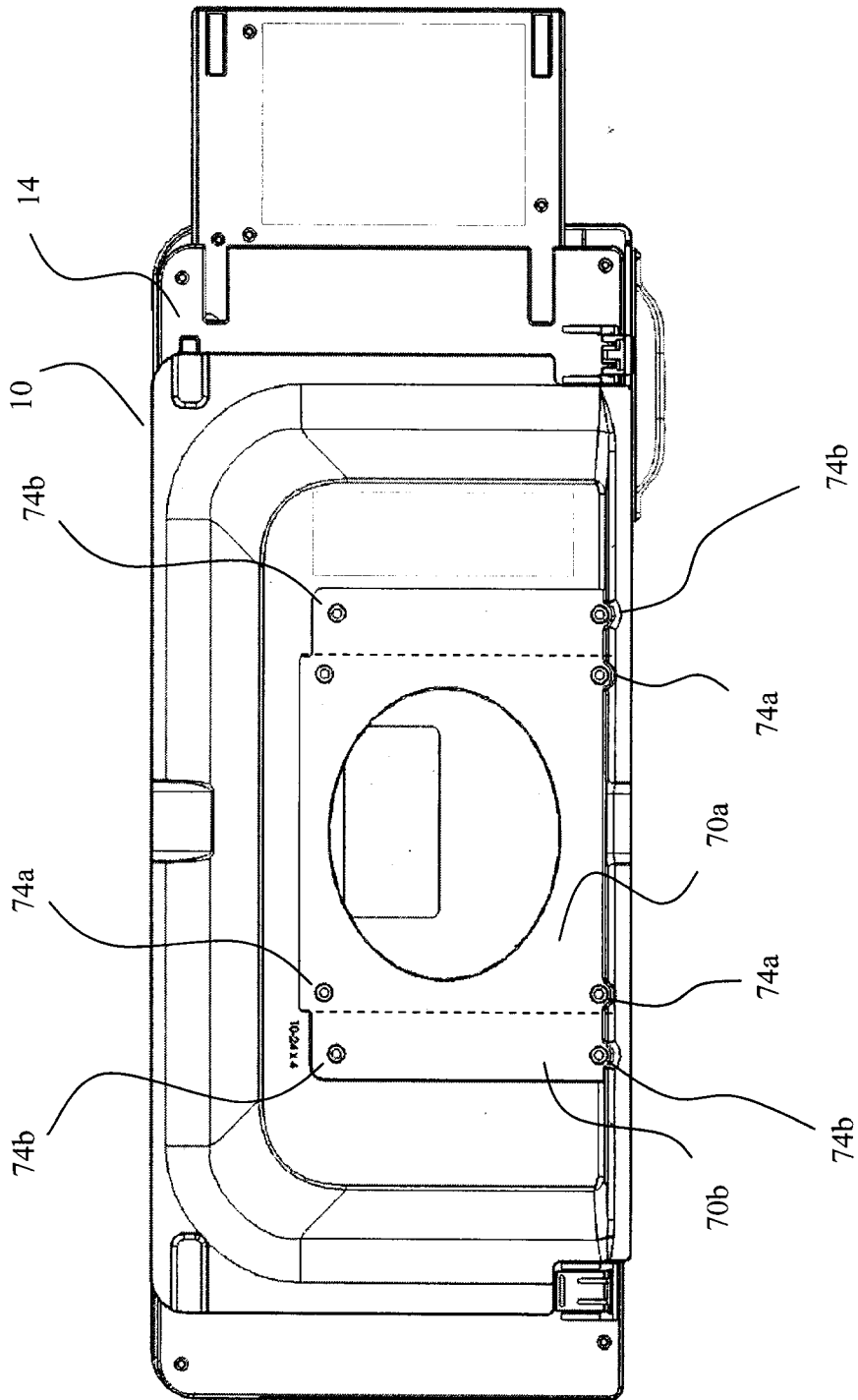
wherein the ballast assembly is provided to contribute additional weight to the keyboard support.

105. A keyboard-keyboard support combination comprising:

a keyboard support;

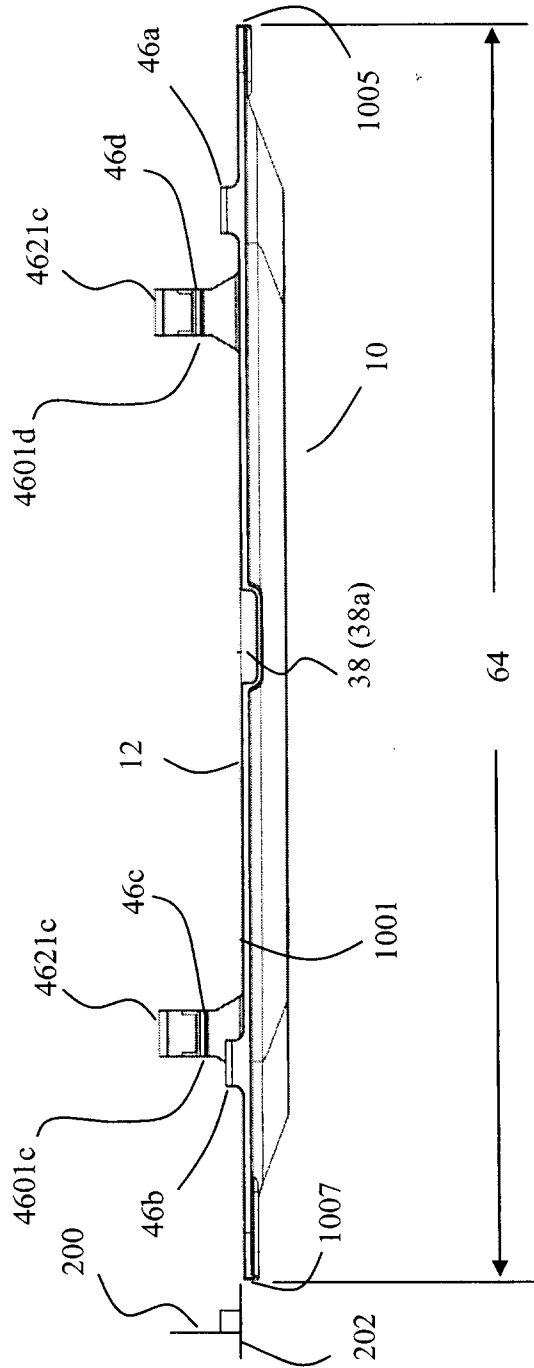
a keyboard supported on the keyboard support;

wherein the maximum thickness of the combination of the keyboard and the keyboard support is less than about 2 inches.



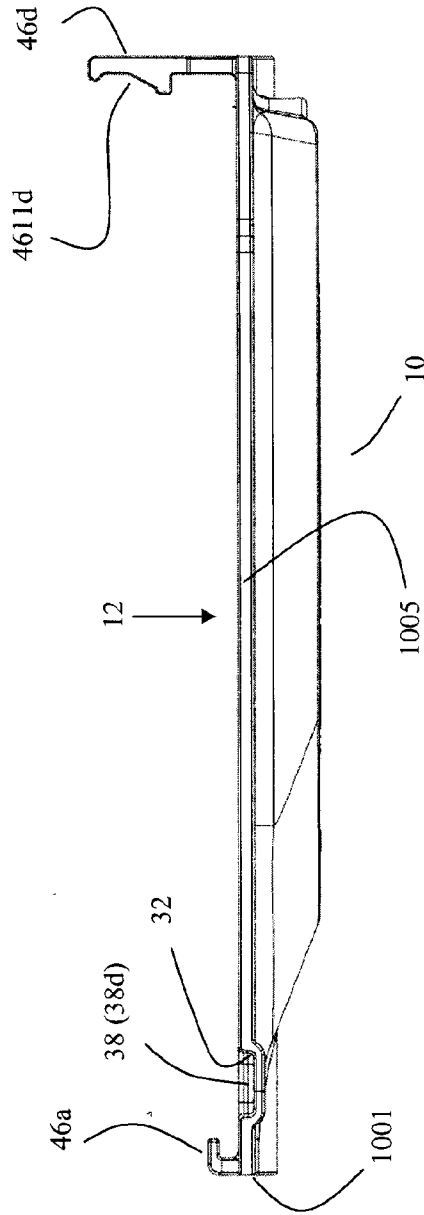
Bottom View

Figure 1

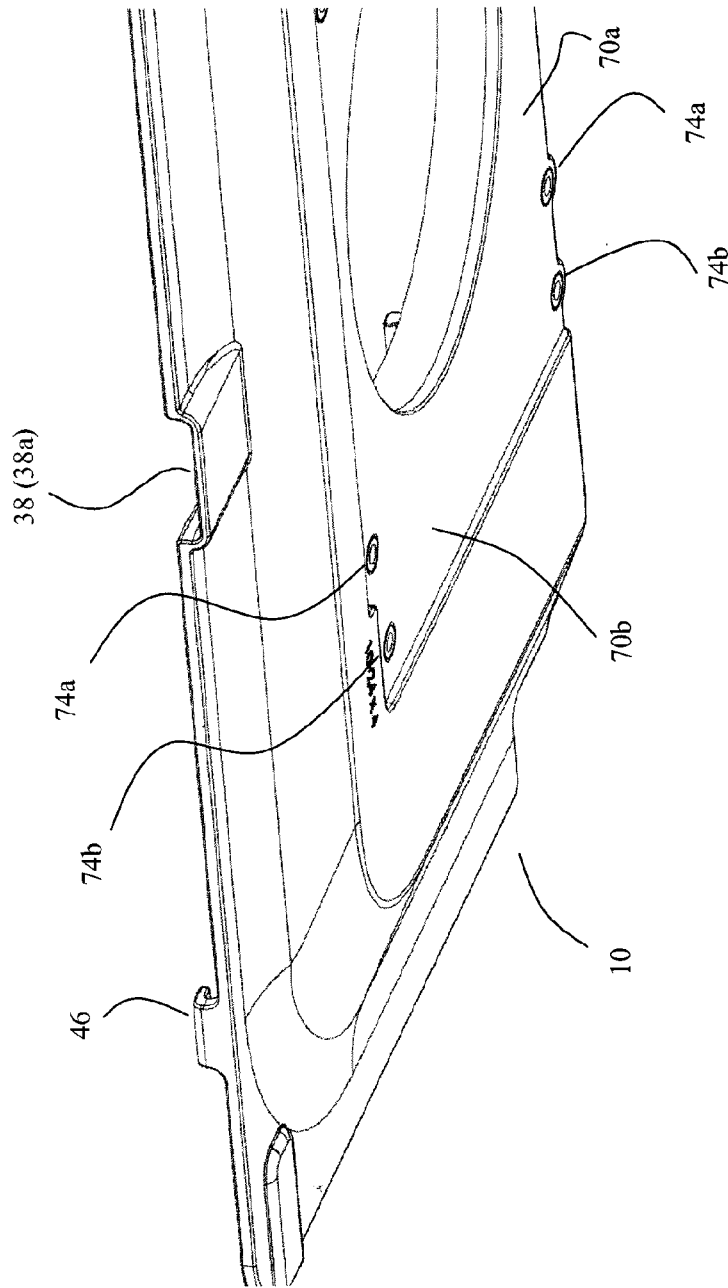


Front View  
Figure 2



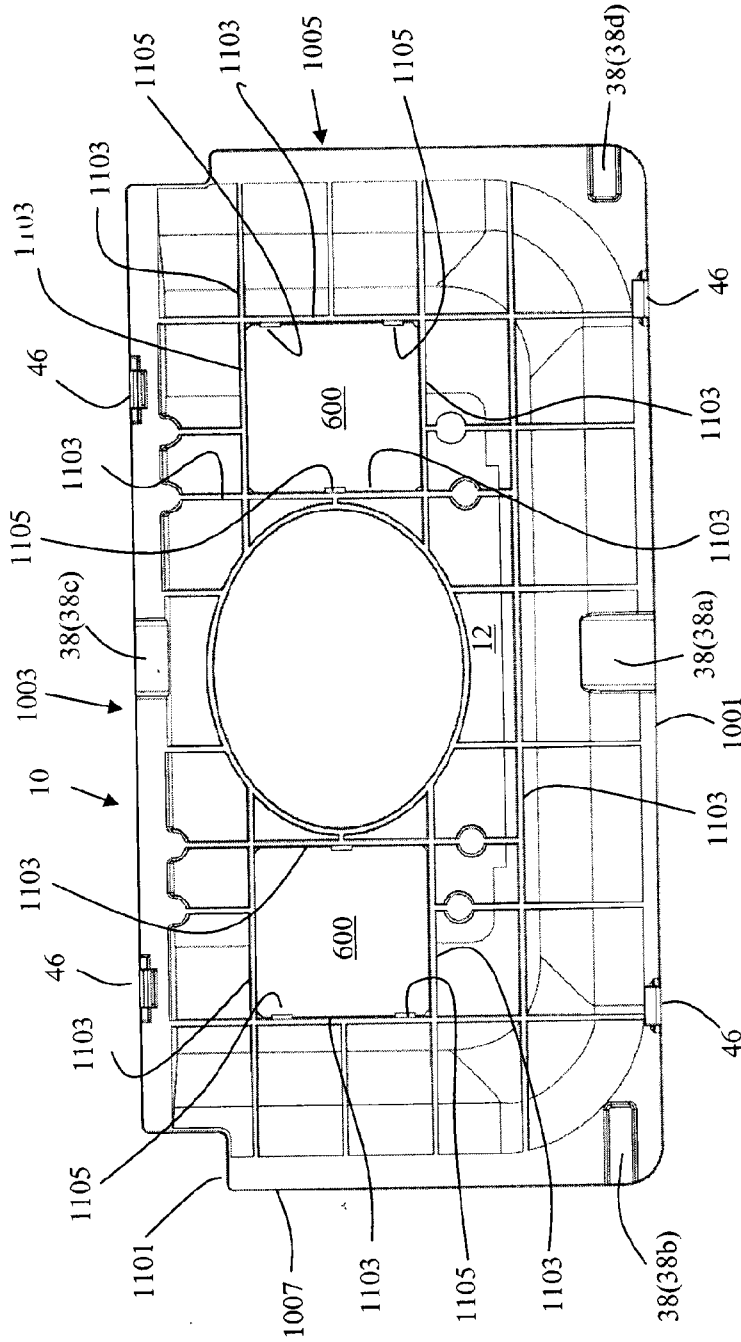


Side View  
Figure 3



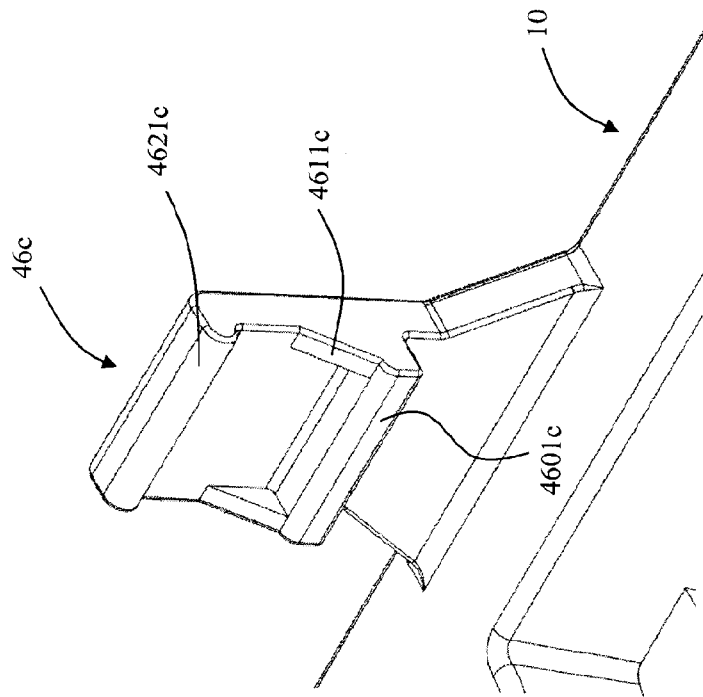
Bottom Isometric View

Figure 4



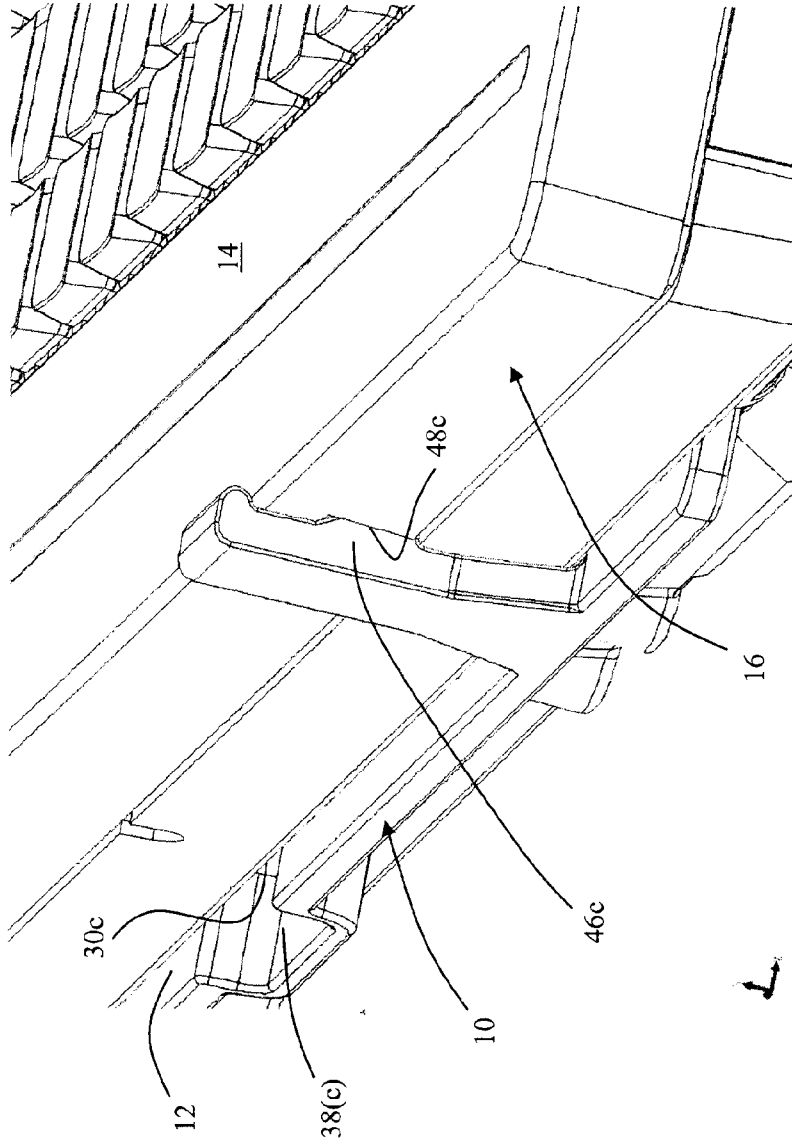
Top View

Figure 5

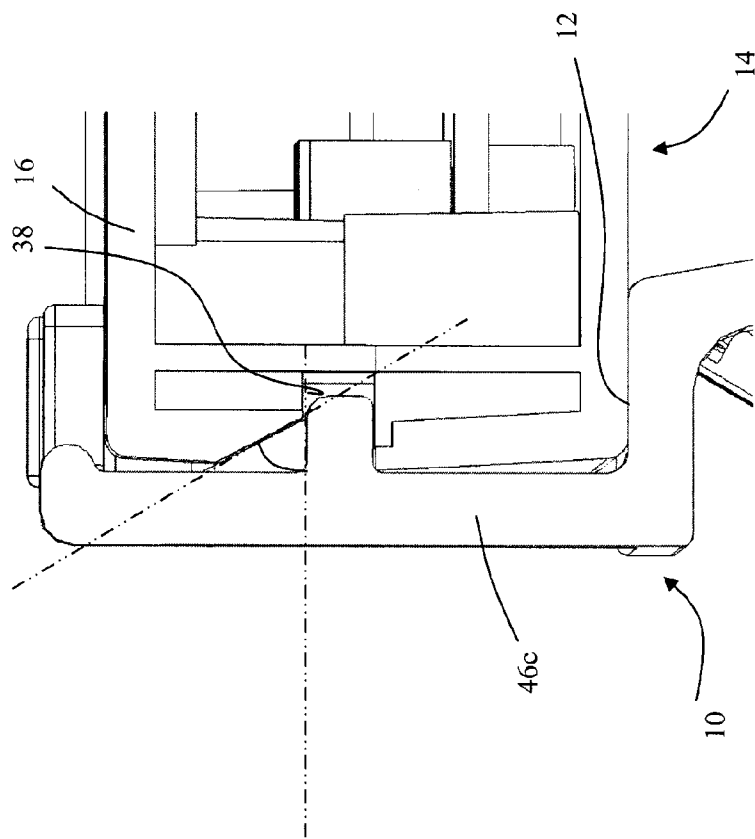


Front Isometric View

Figure 6

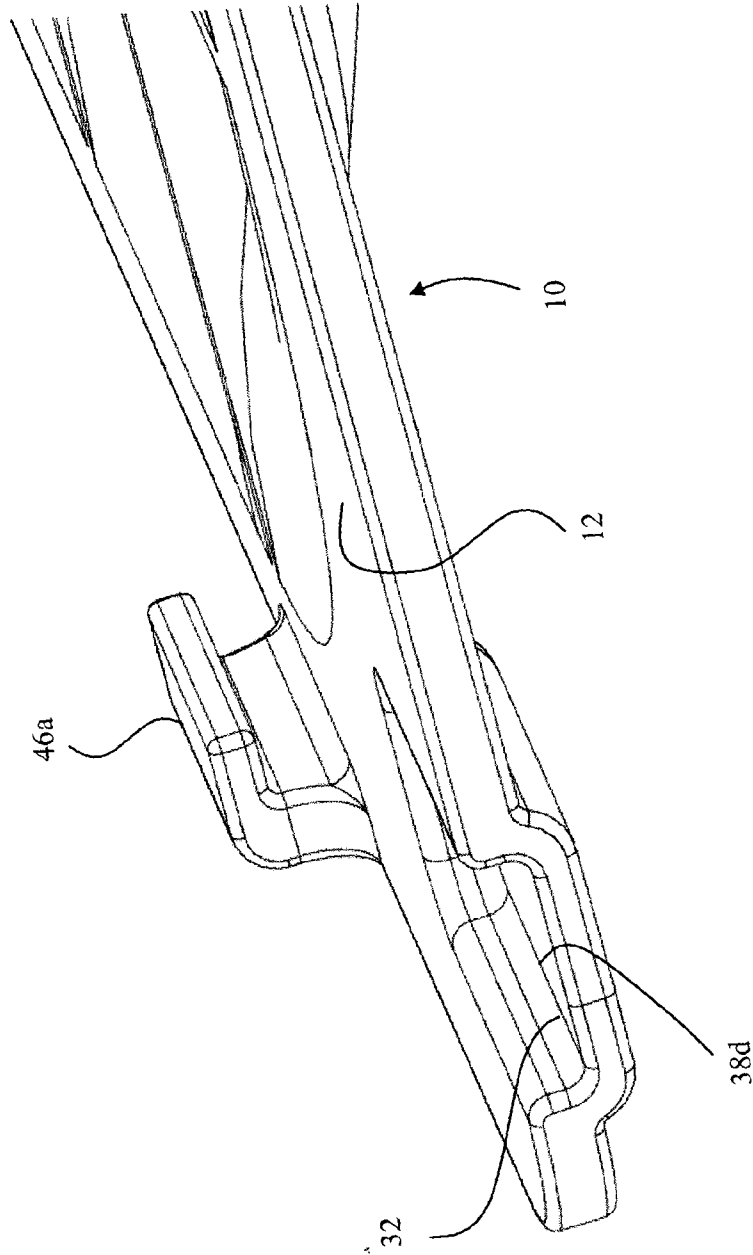


Rear Isometric View  
Figure 7

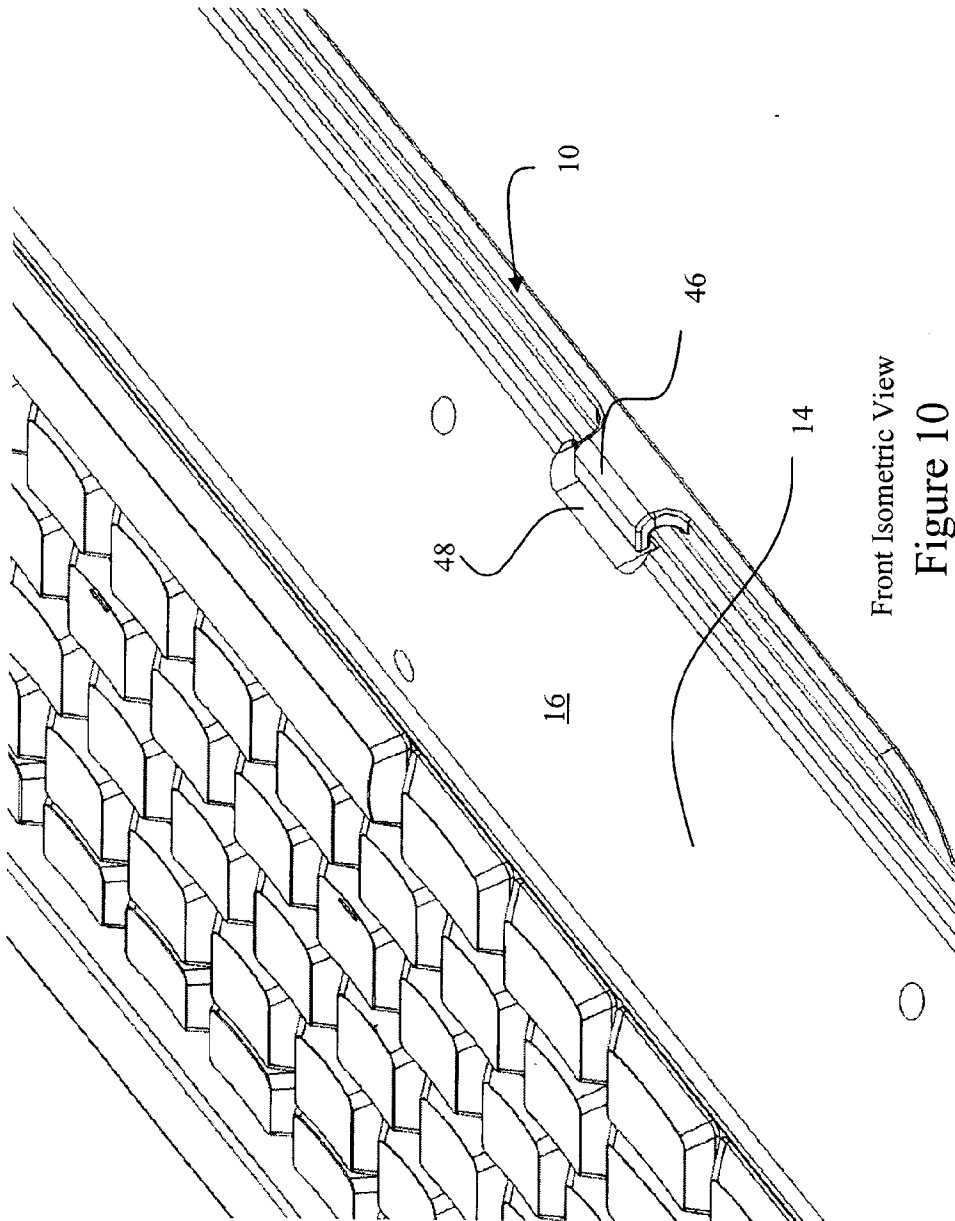


Left Side Cross-sectional View

Figure 8

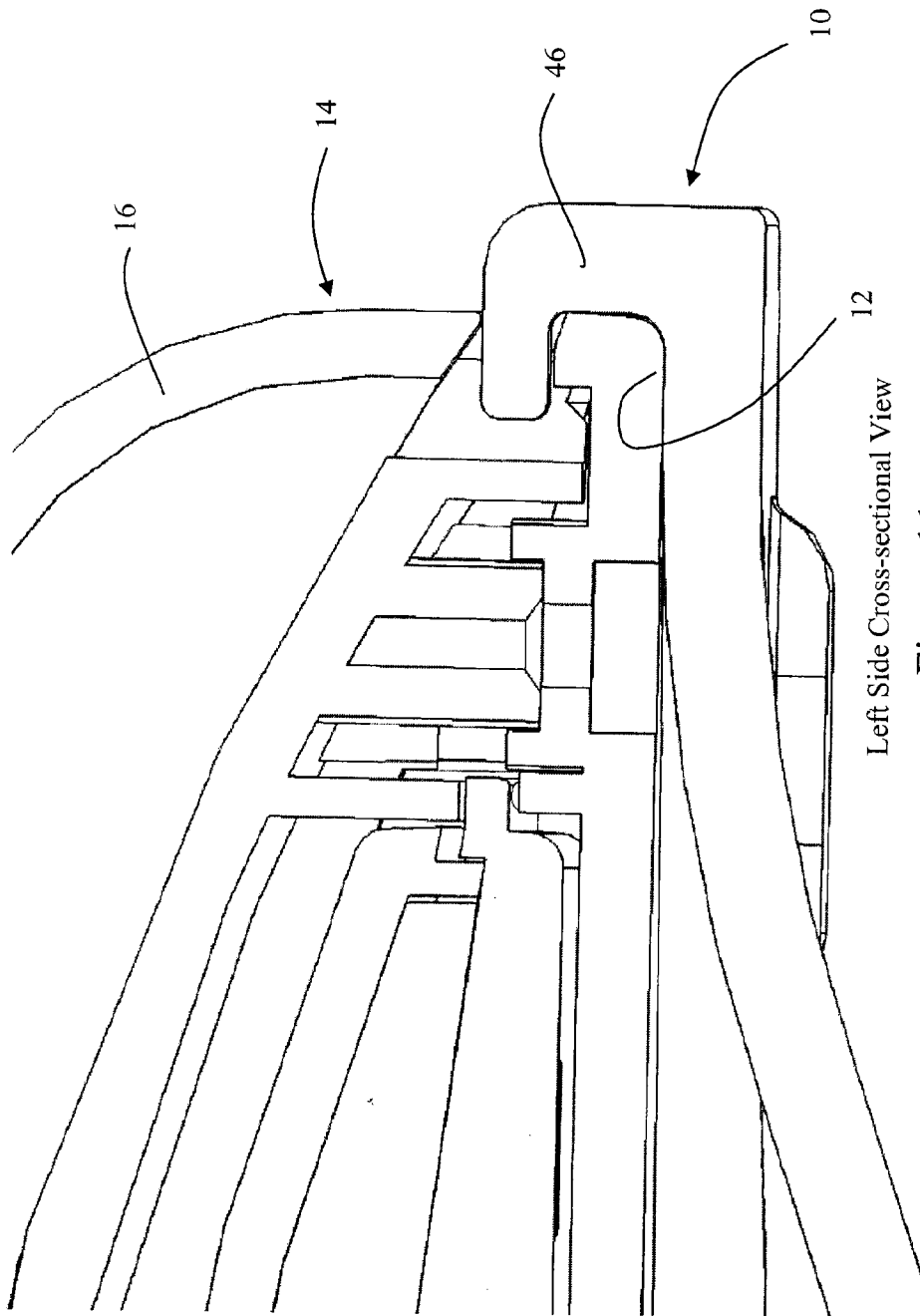


Right Side Isometric View  
Figure 9



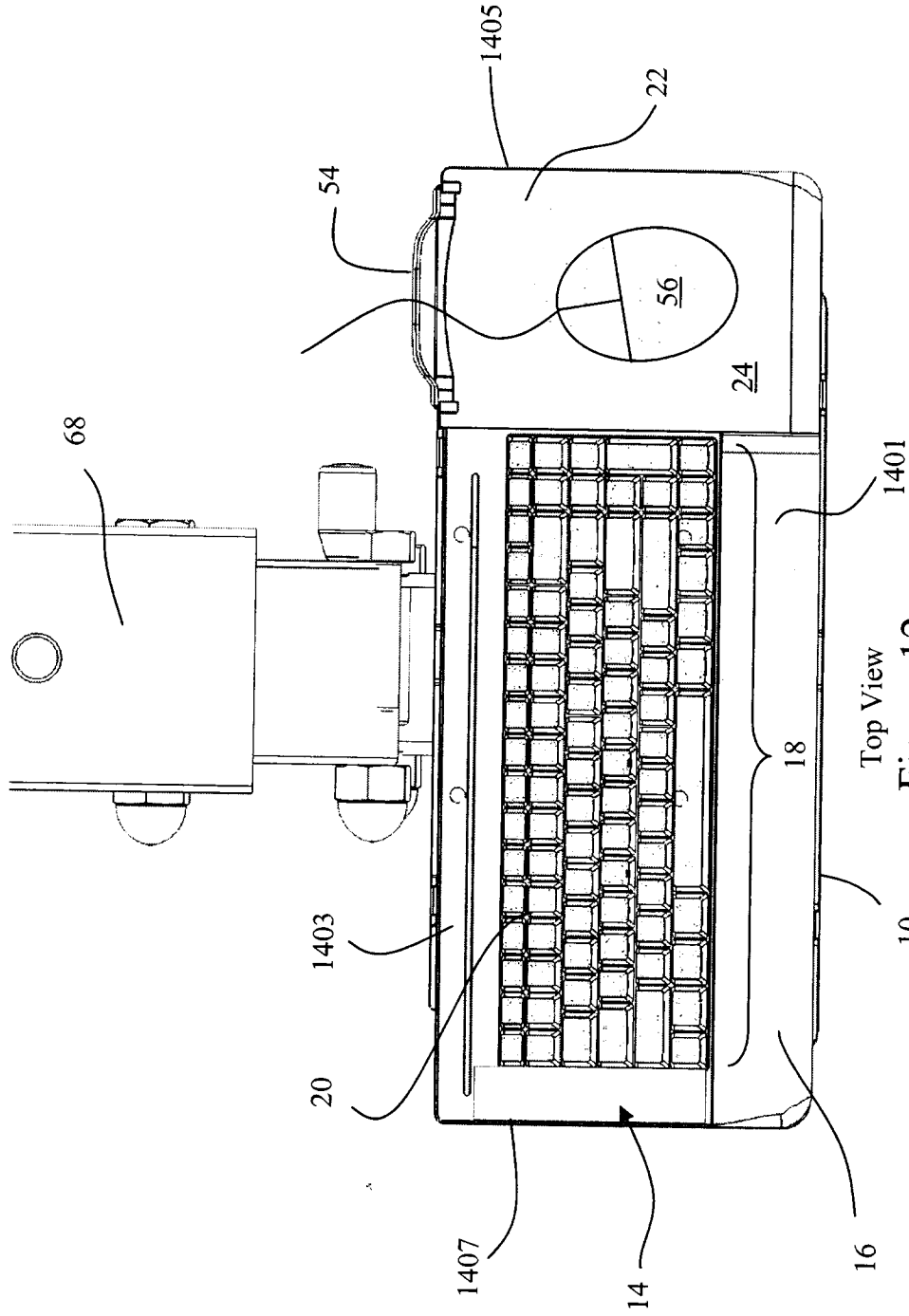
Front Isometric View  
Figure 10

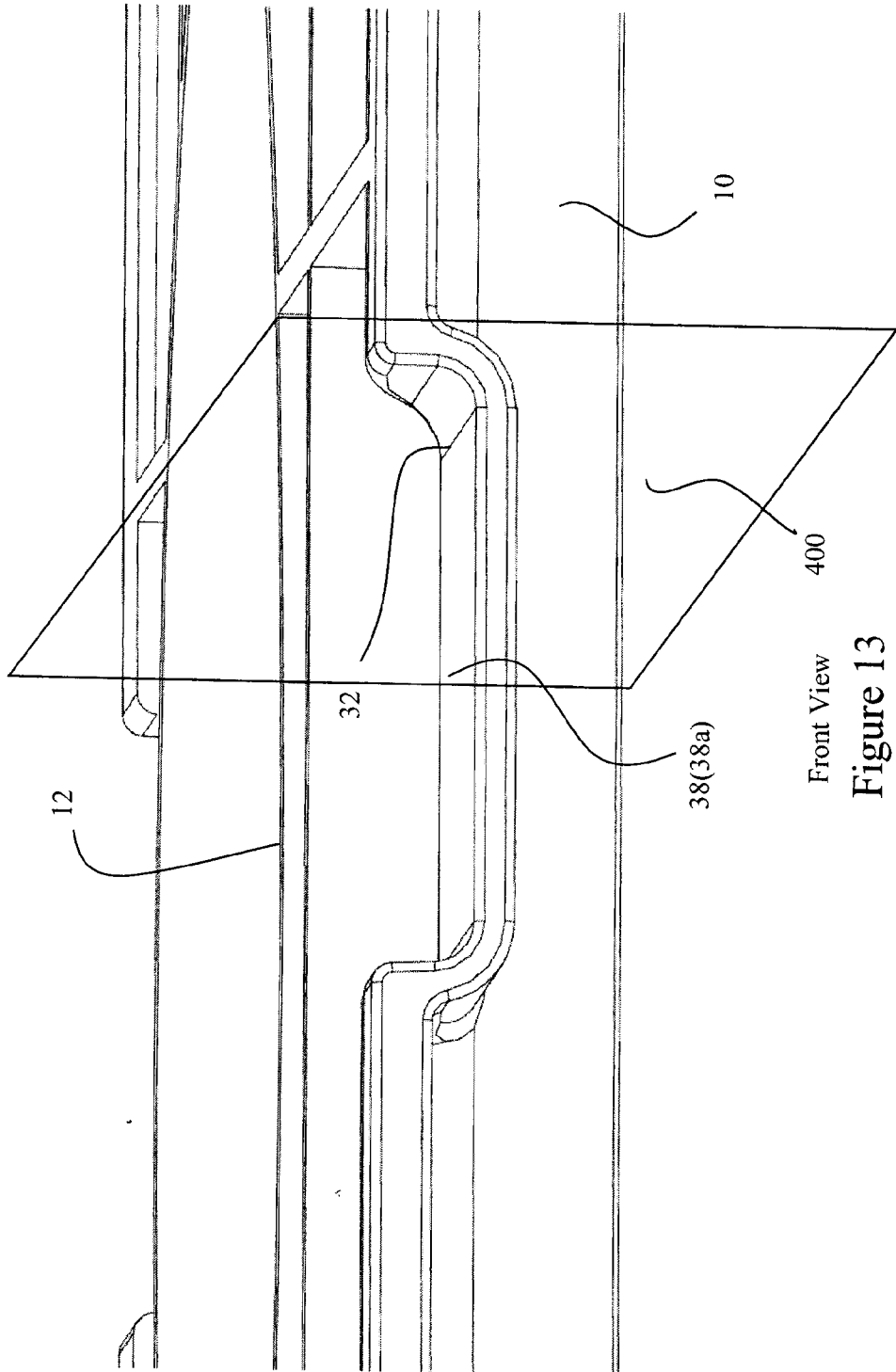




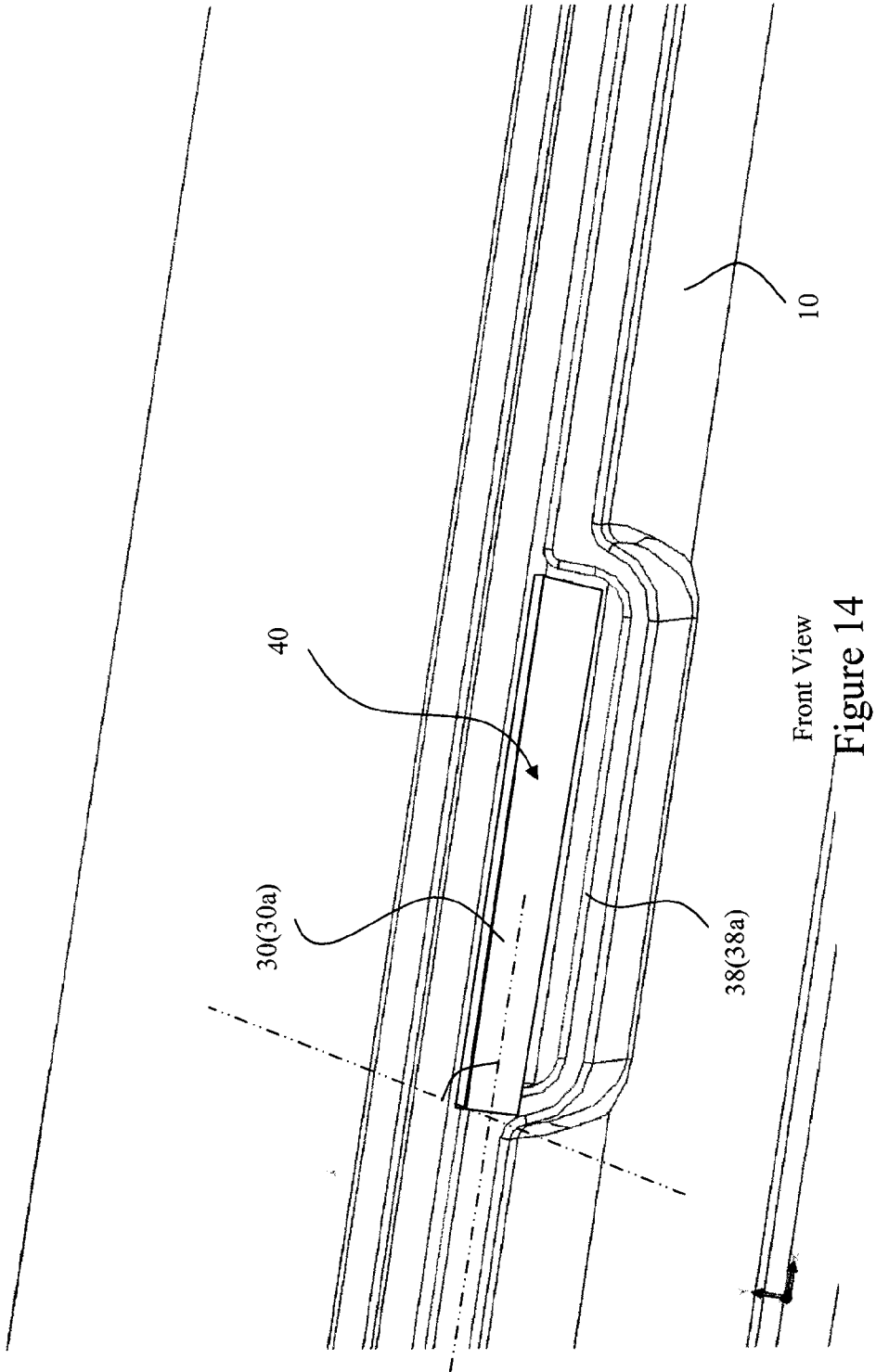
Left Side Cross-sectional View

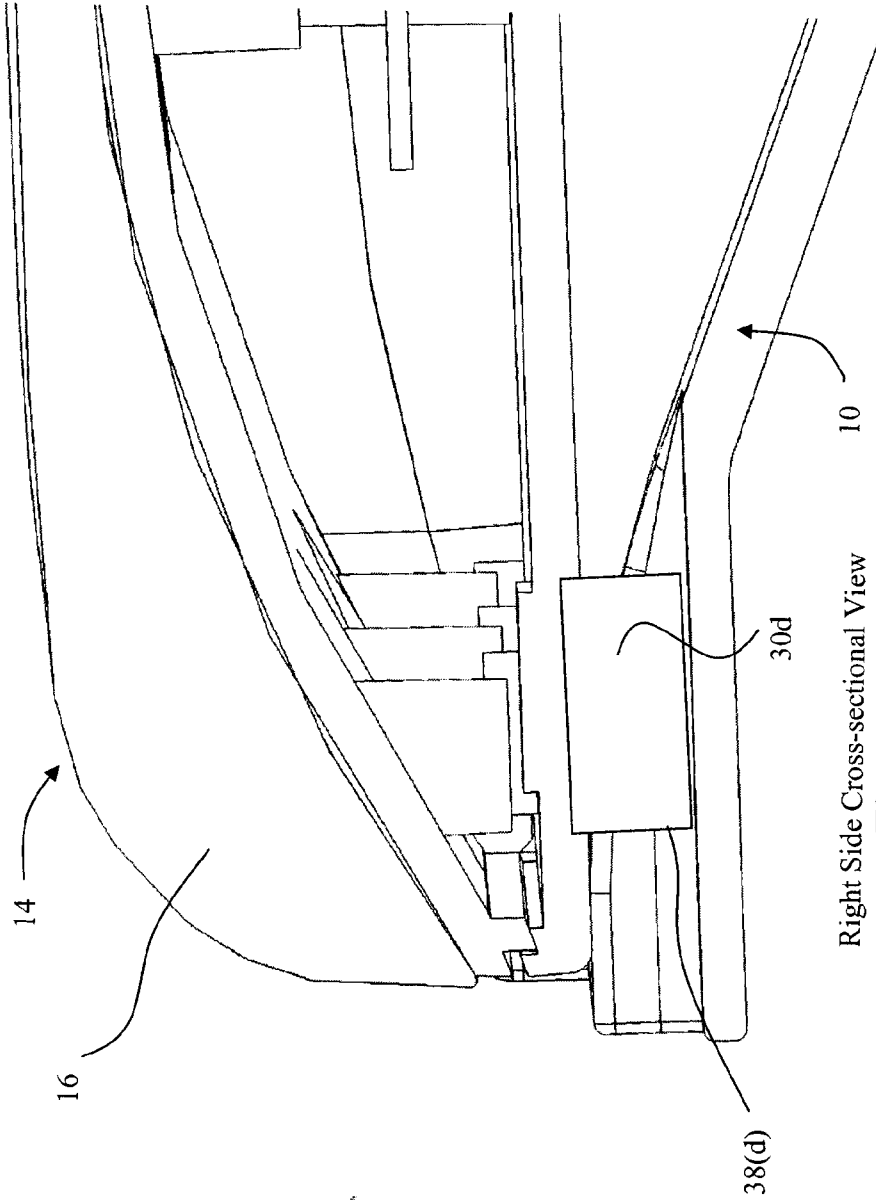
Figure 11





Front View  
Figure 13





Right Side Cross-sectional View

Figure 15

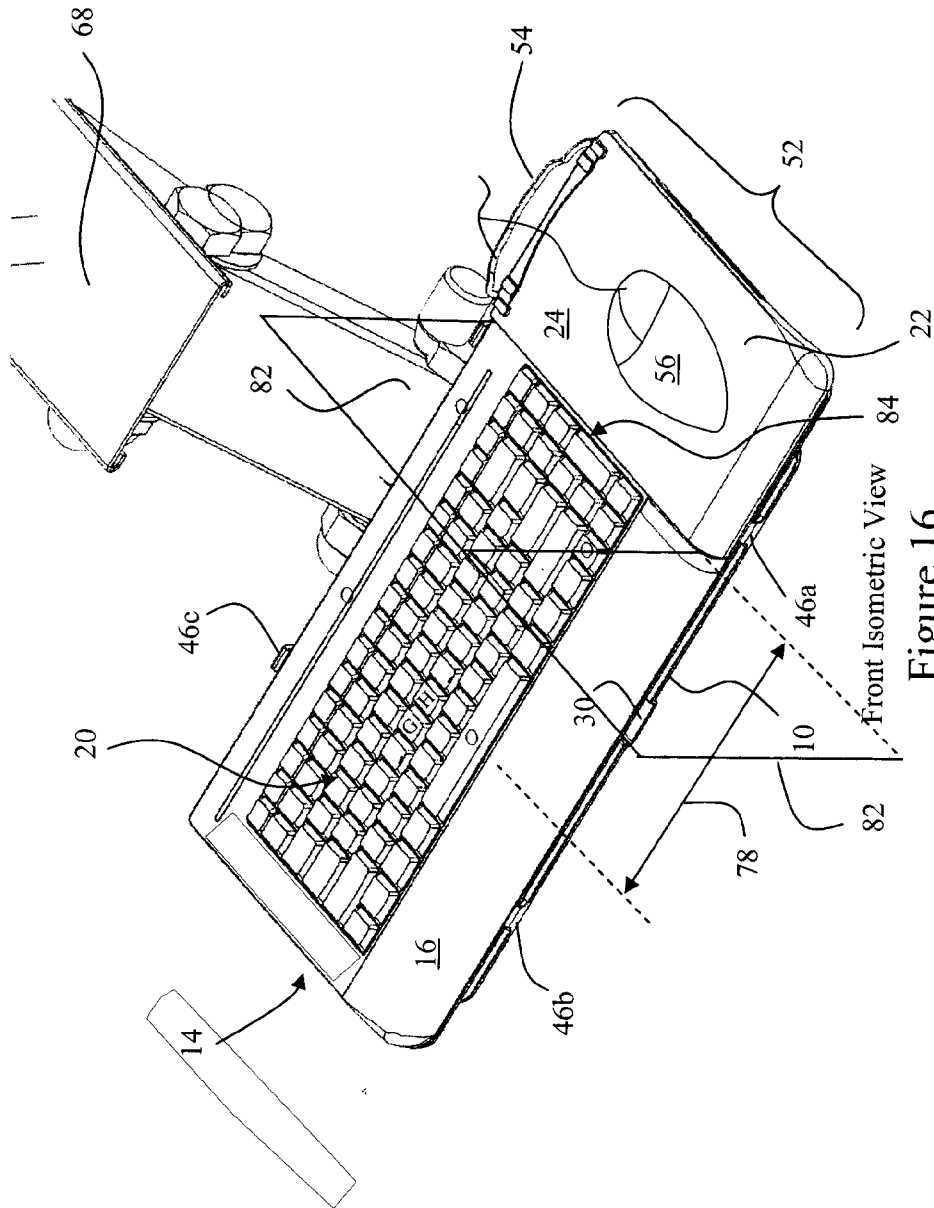
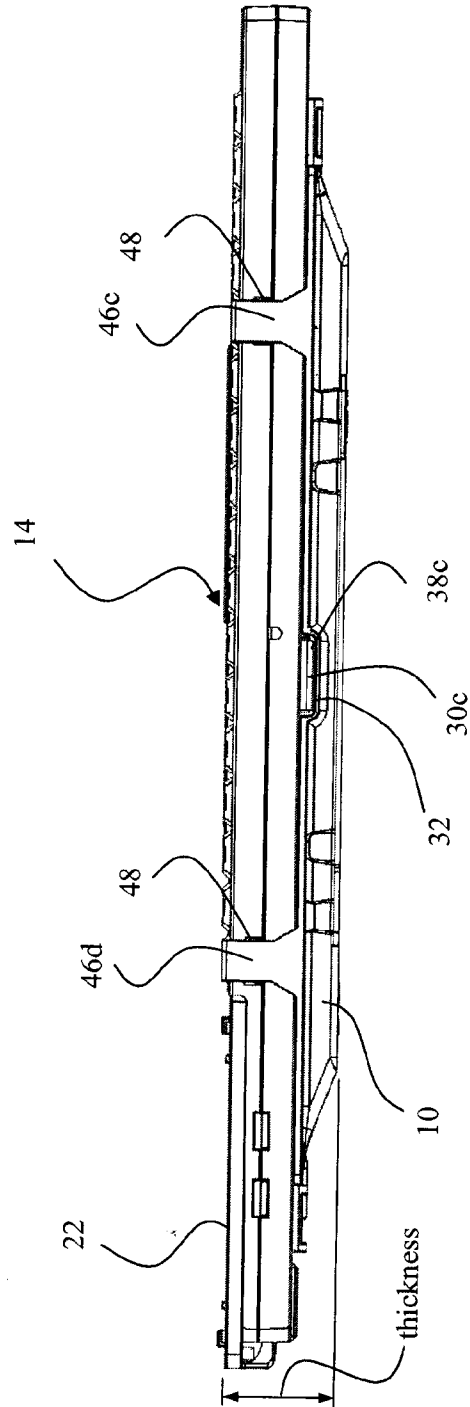
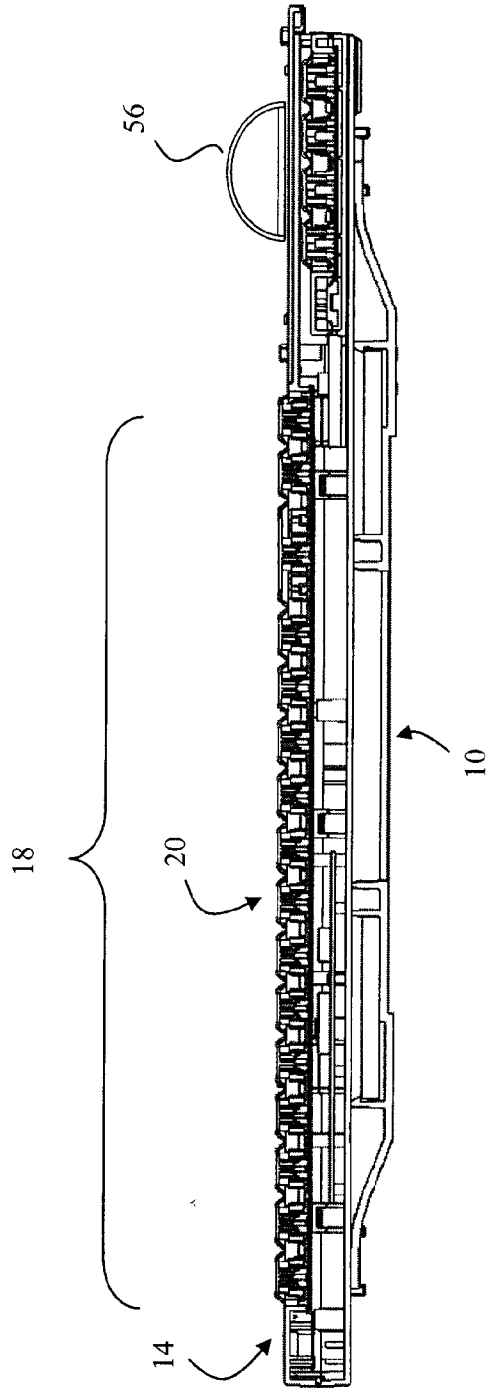


Figure 16

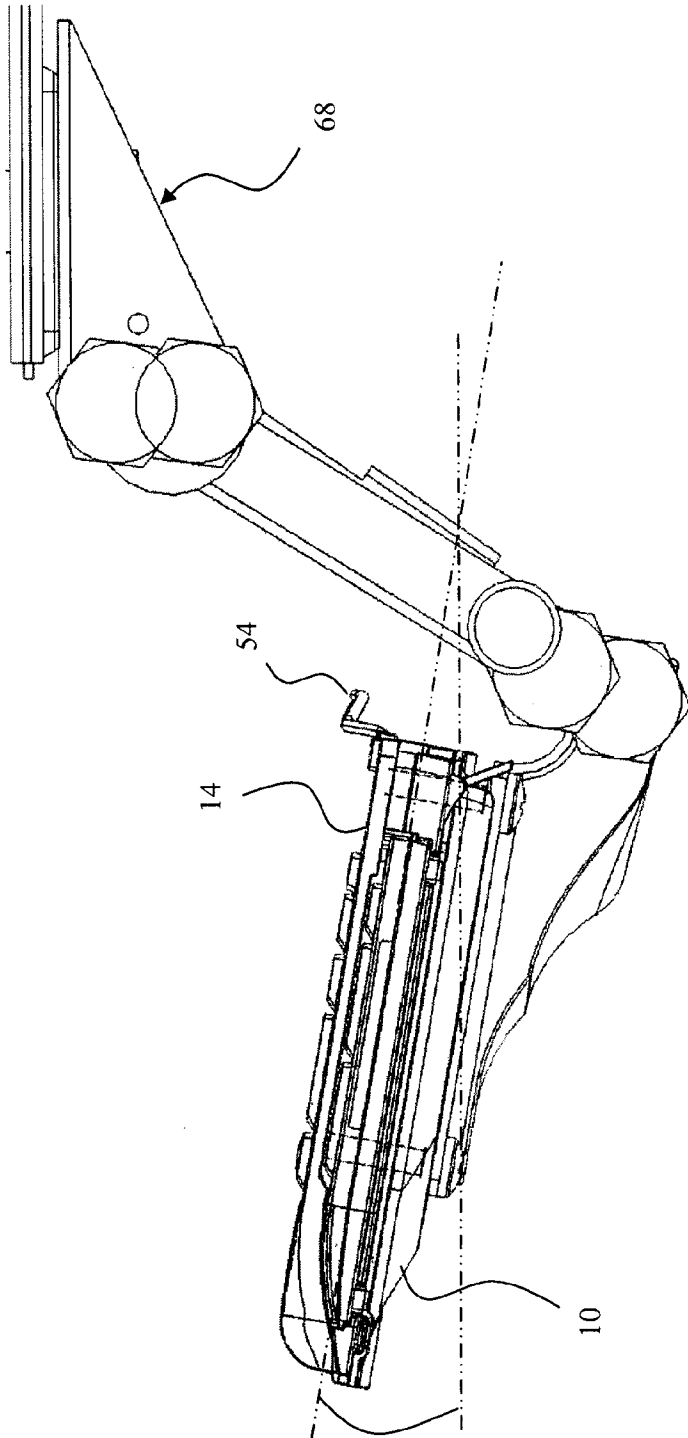


Rear View  
Figure 17

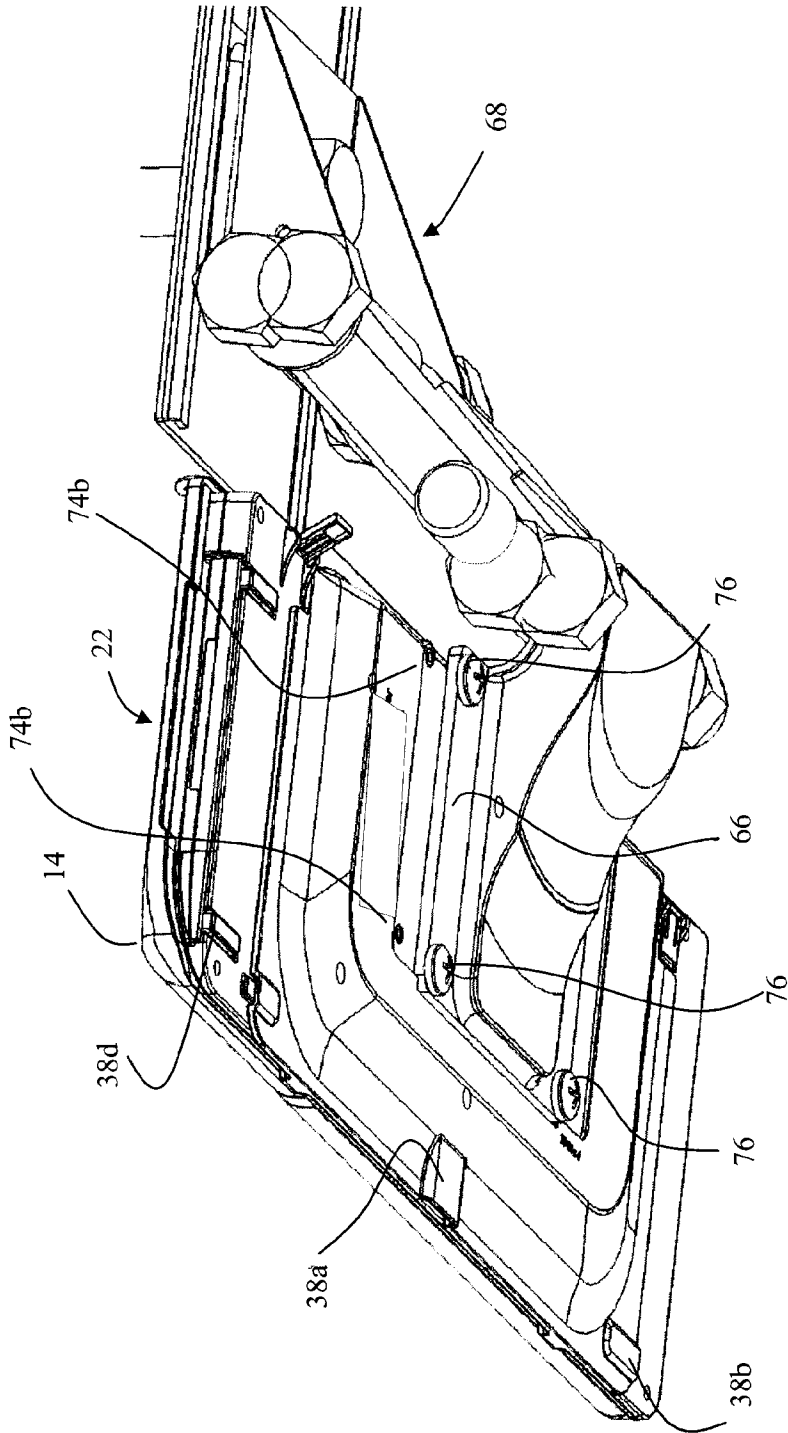


Front Cross-sectional View  
Figure 18



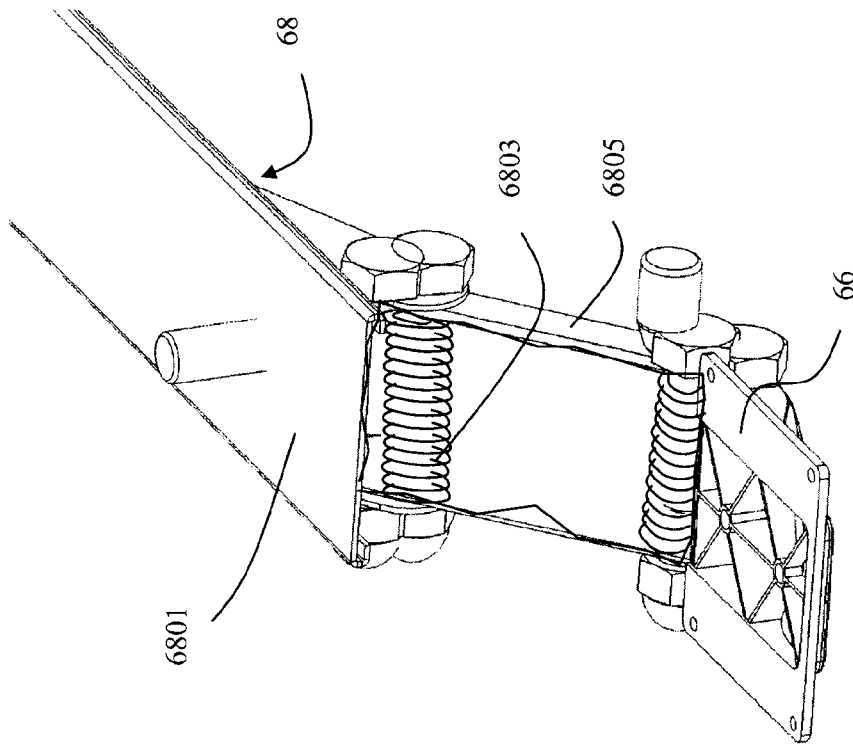


Side View  
Figure 19

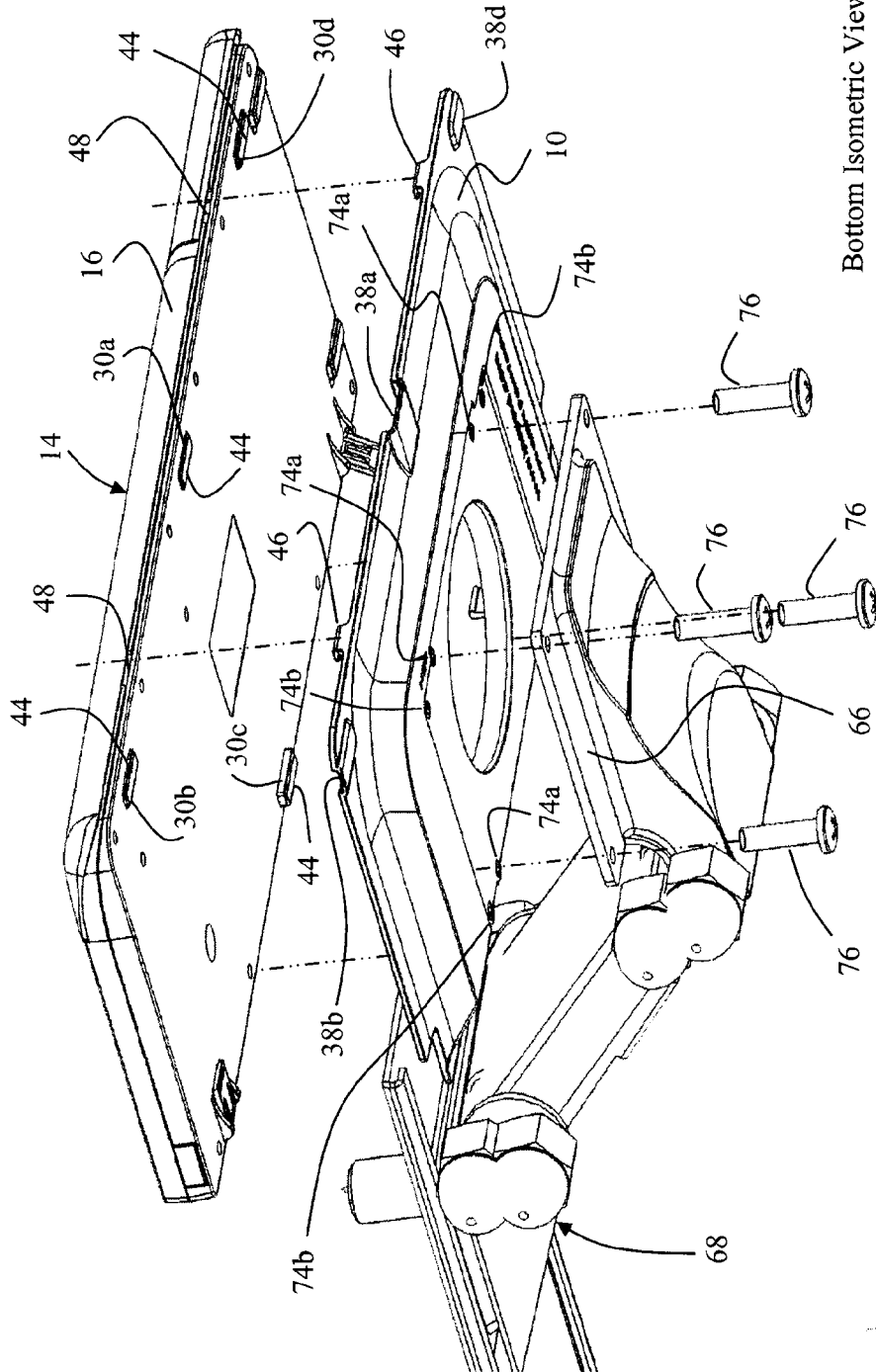


Bottom Isometric View

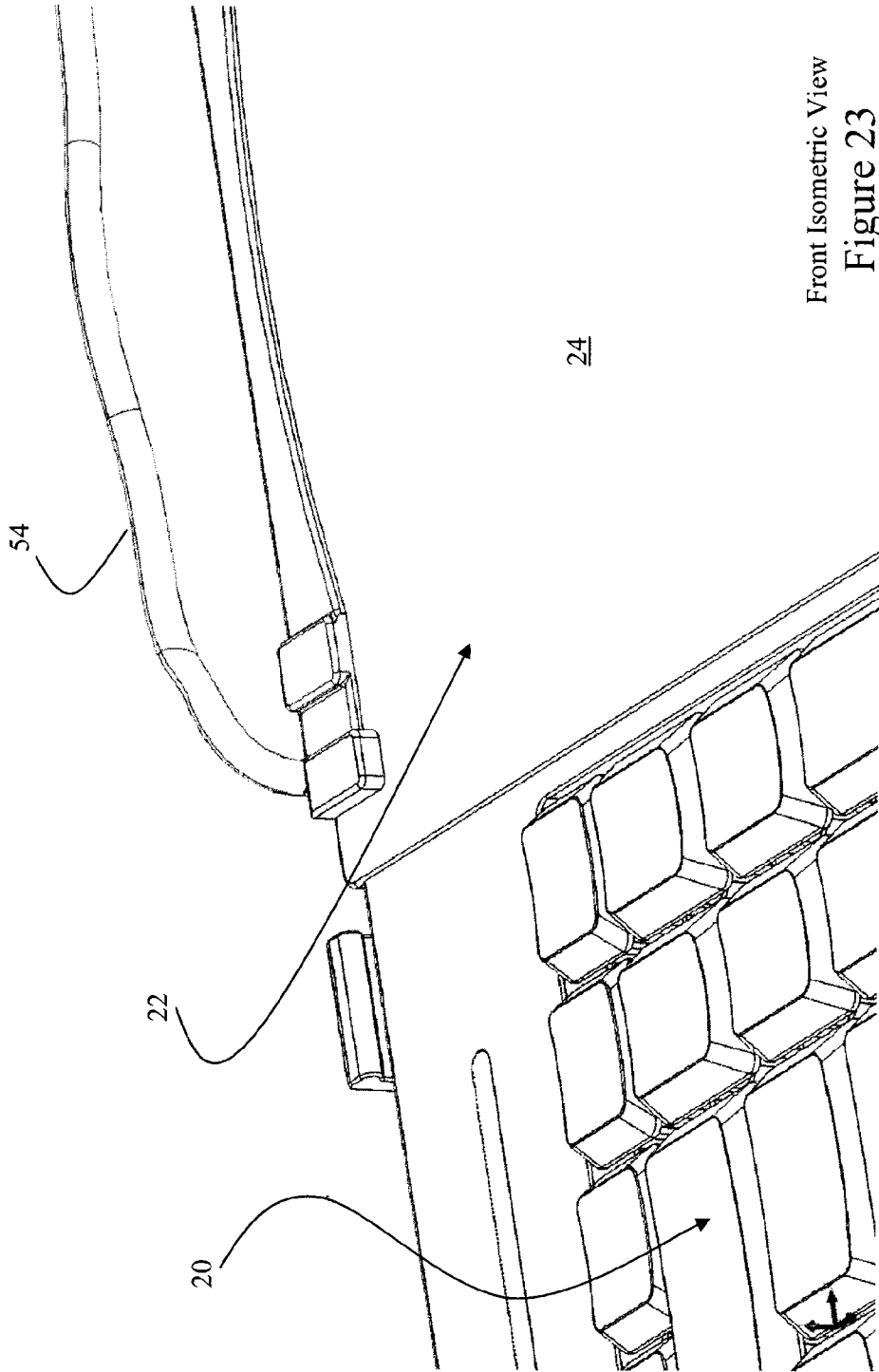
Figure 20



Front Isometric View  
Figure 21



Bottom Isometric View  
Figure 22



Front Isometric View  
Figure 23

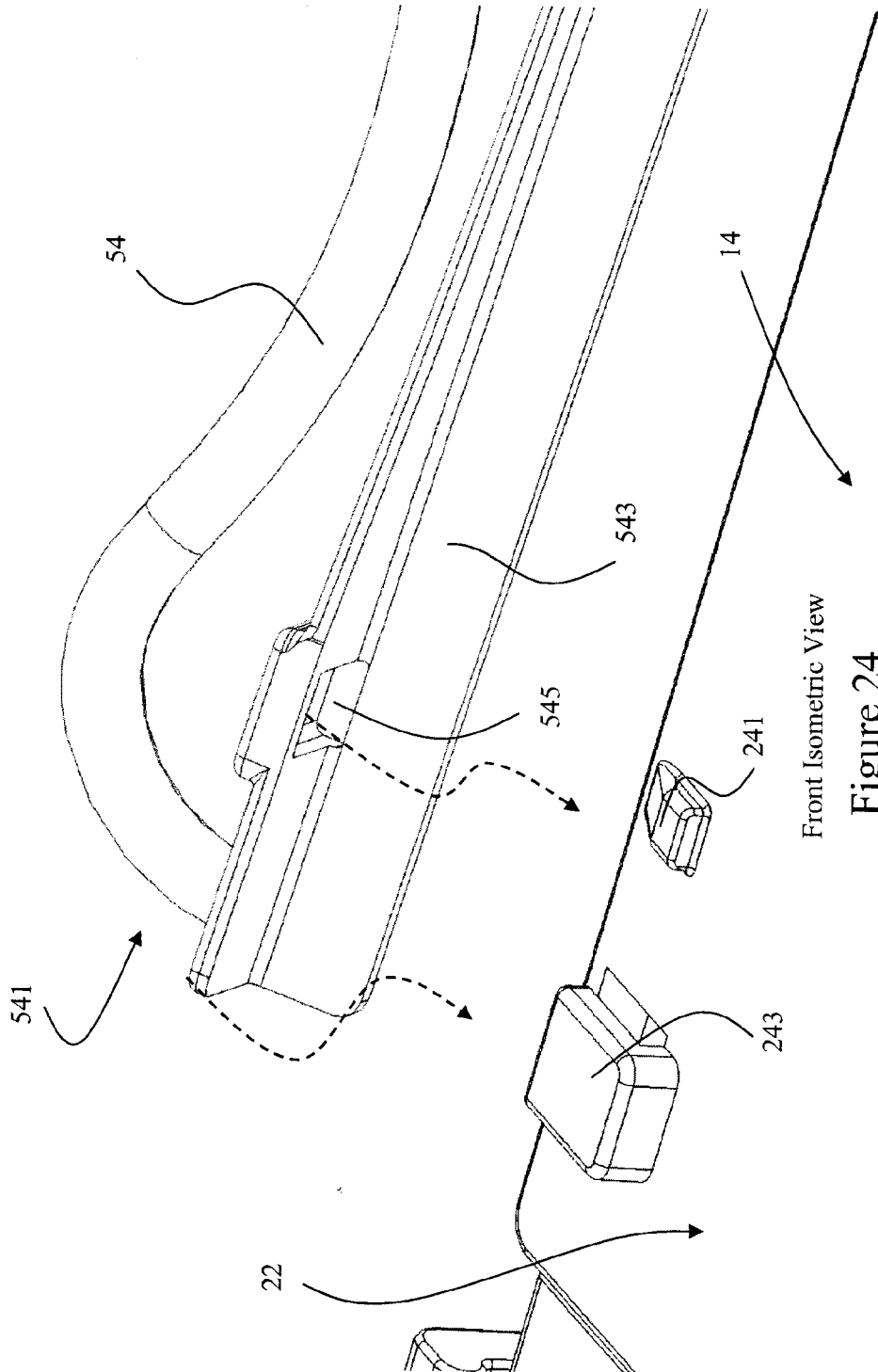
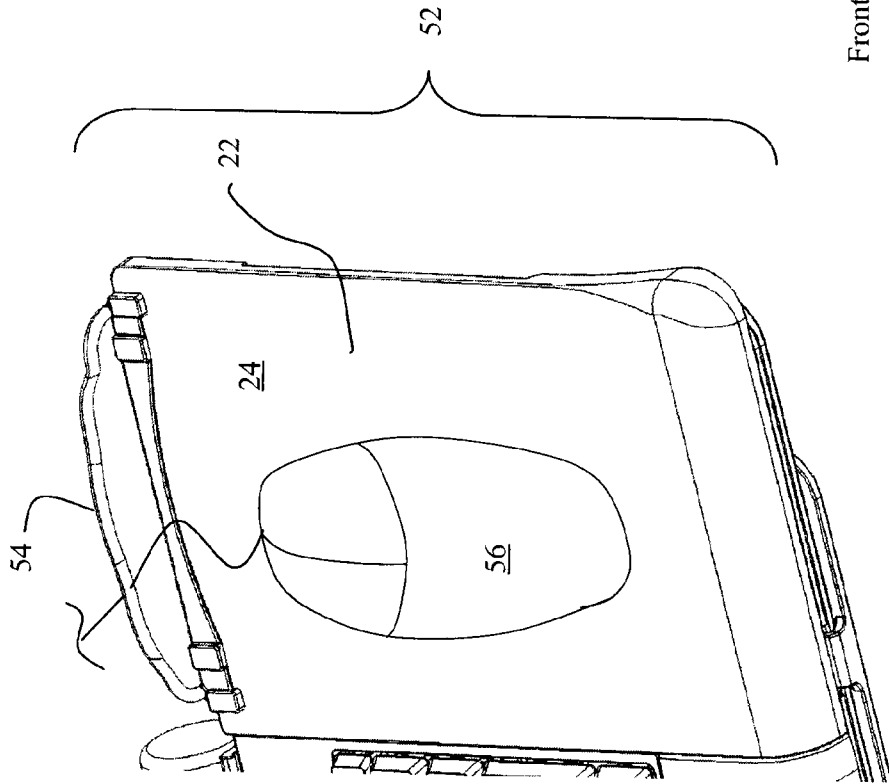
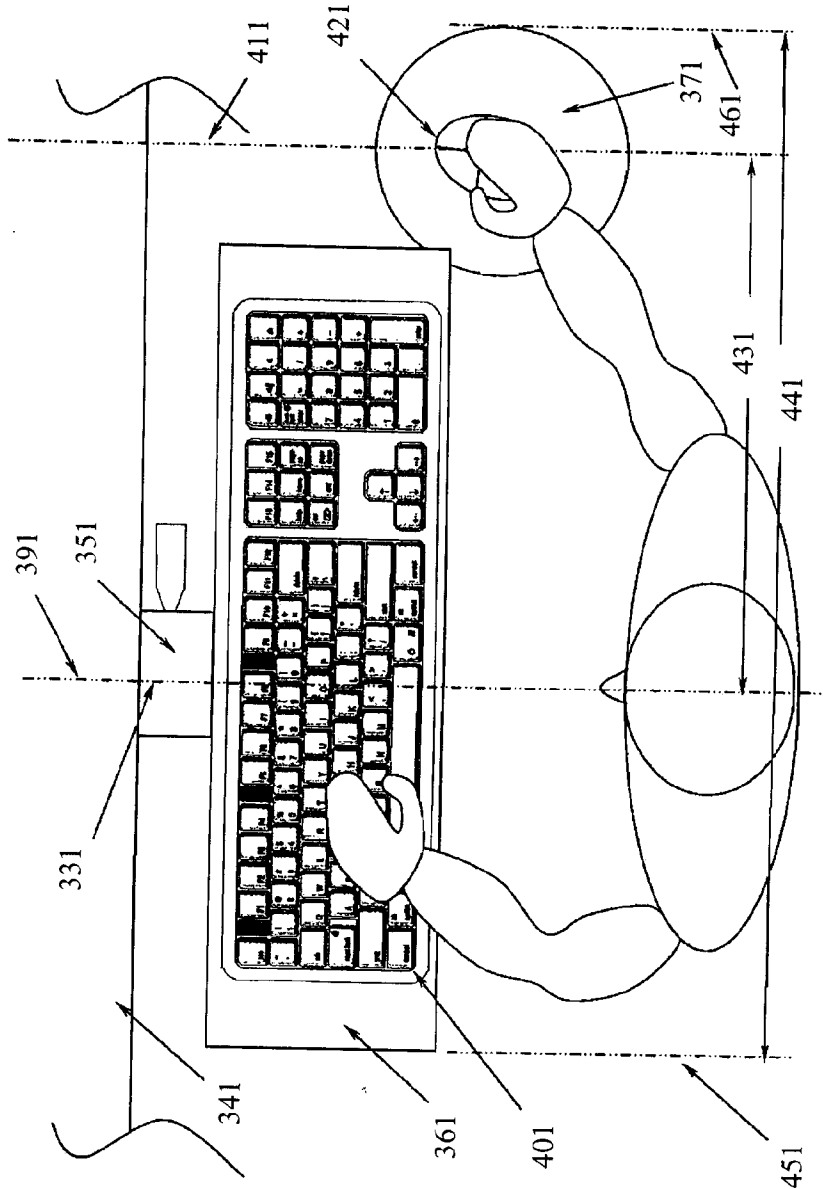


Figure 24

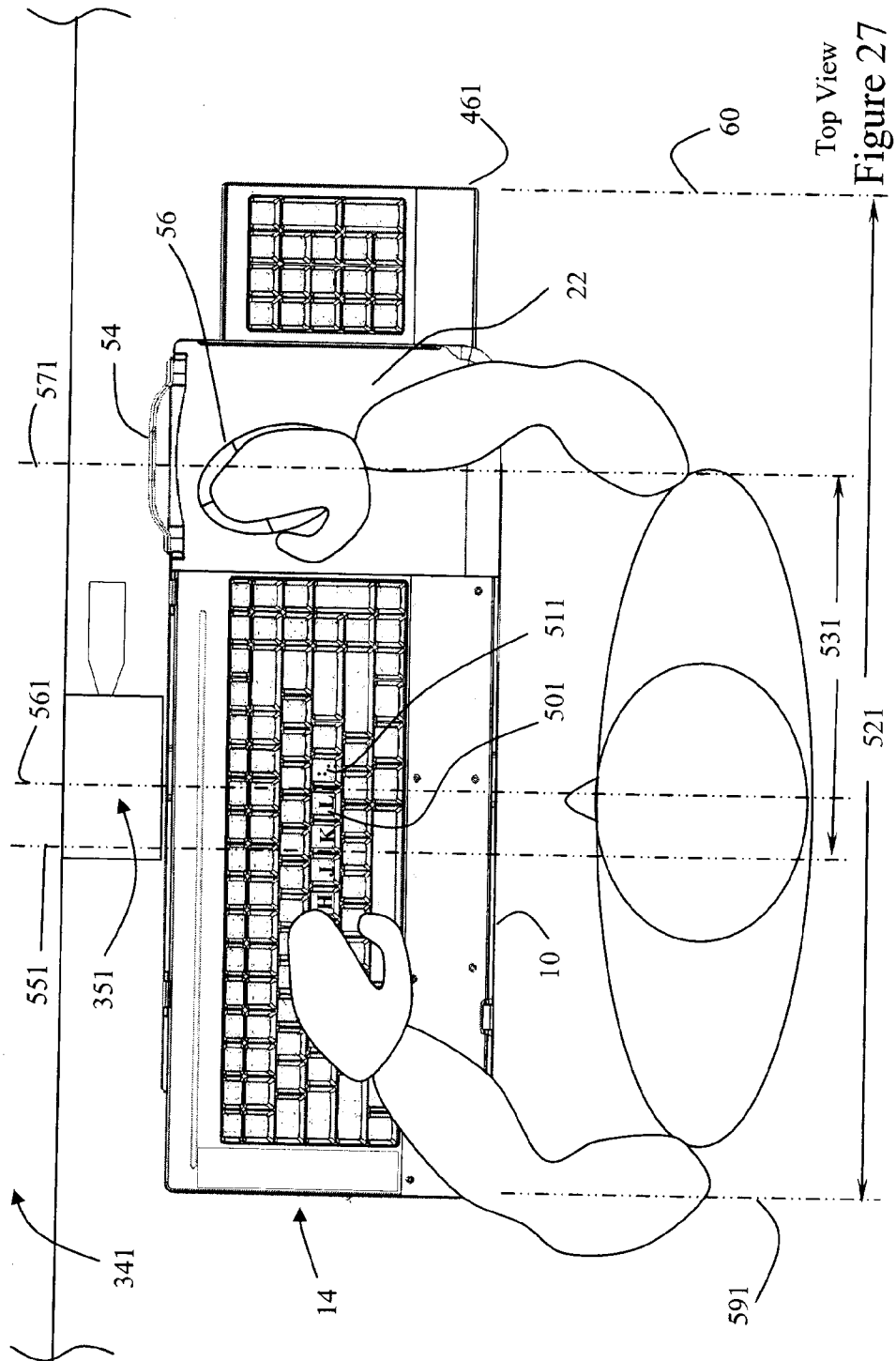


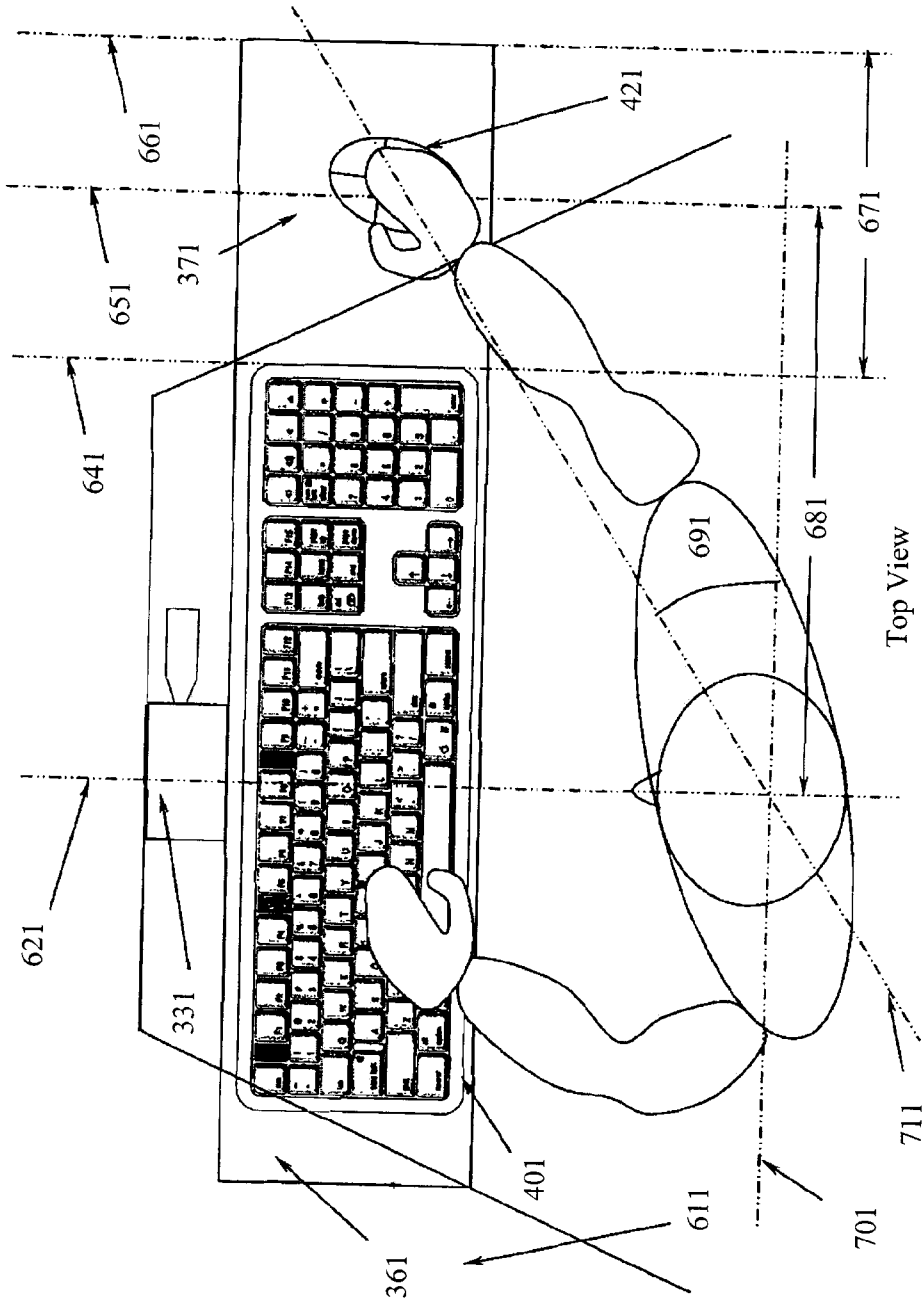
Front Isometric View  
Figure 25



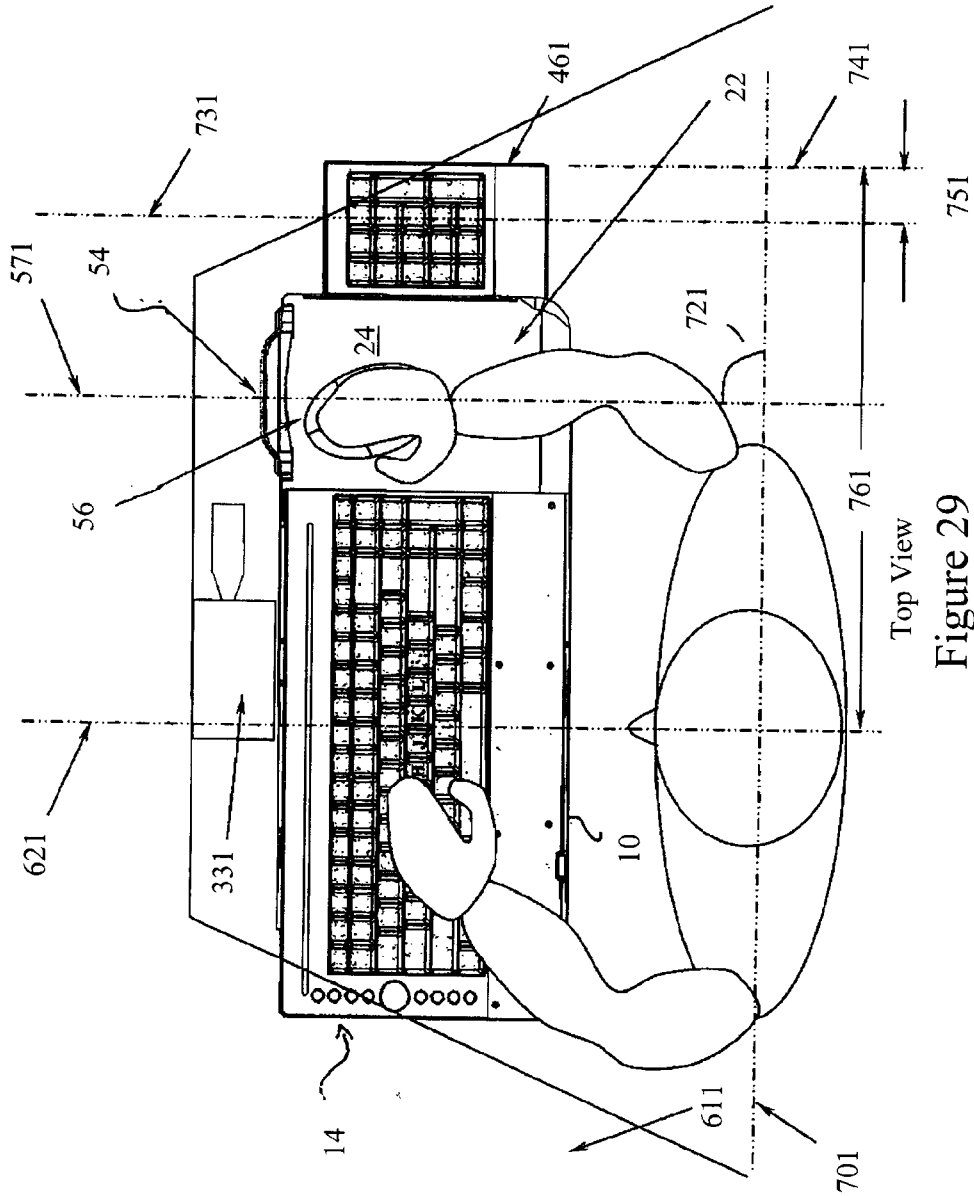
Top View  
Figure 26



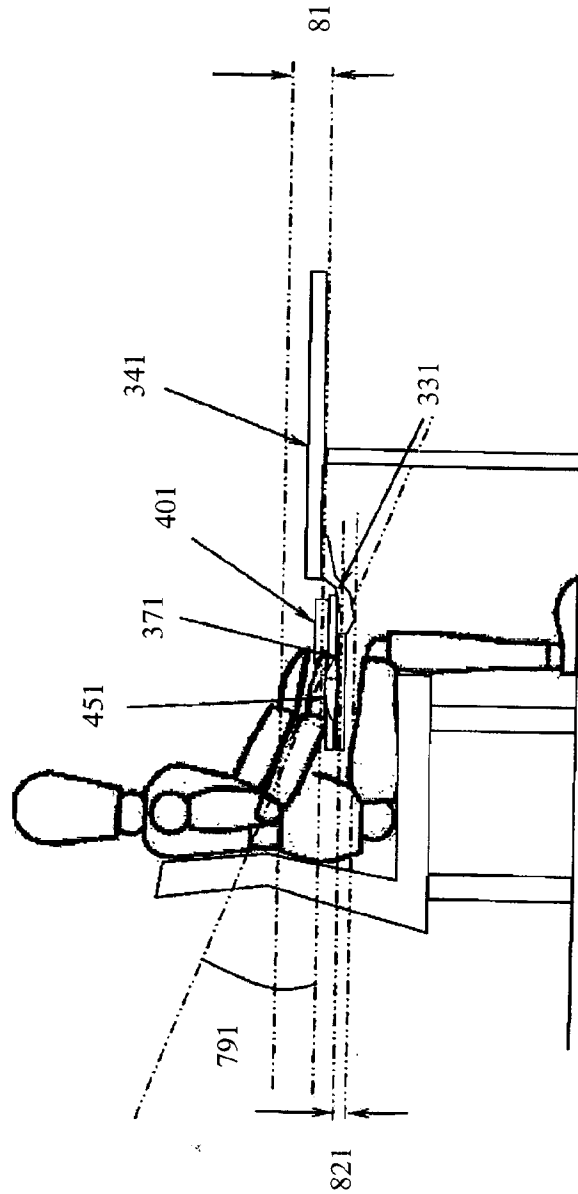




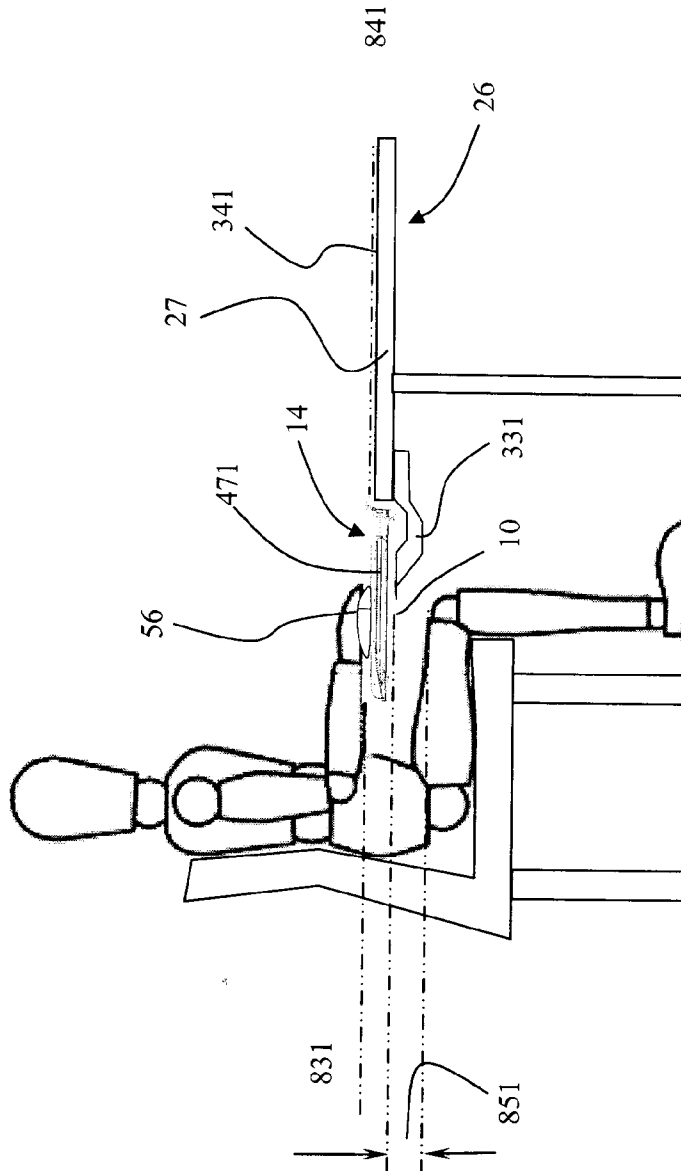
Top View  
Figure 28



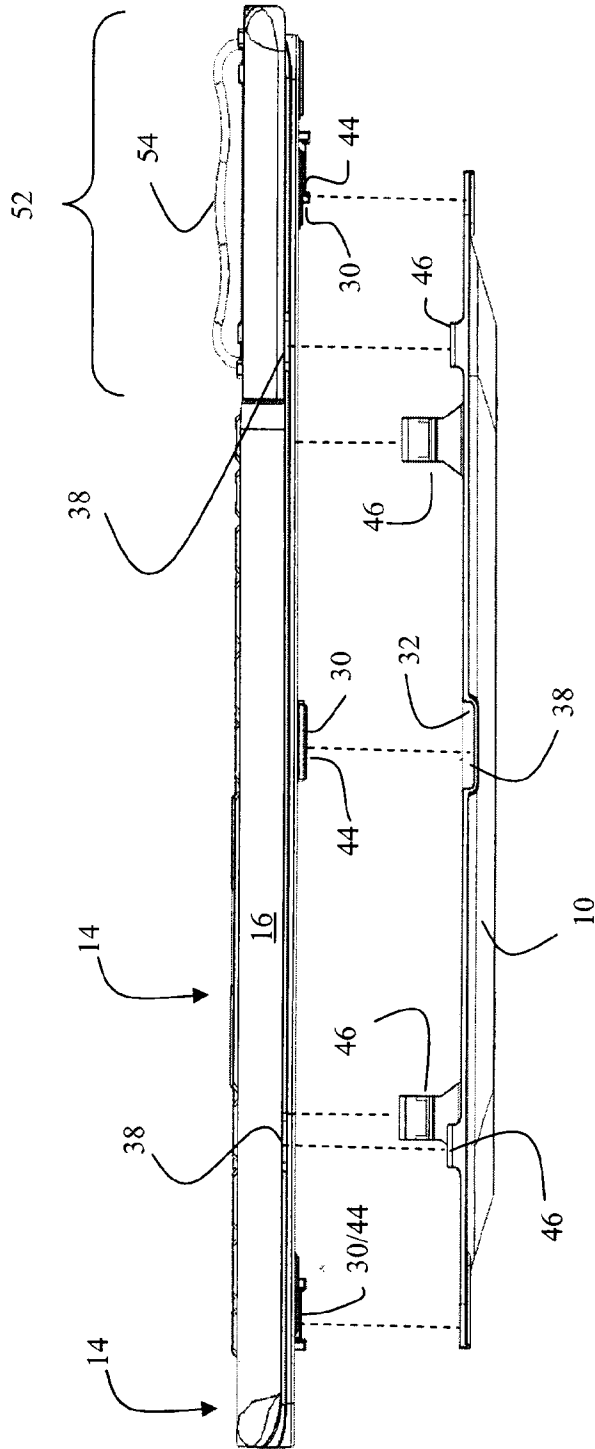
Top View  
Figure 29



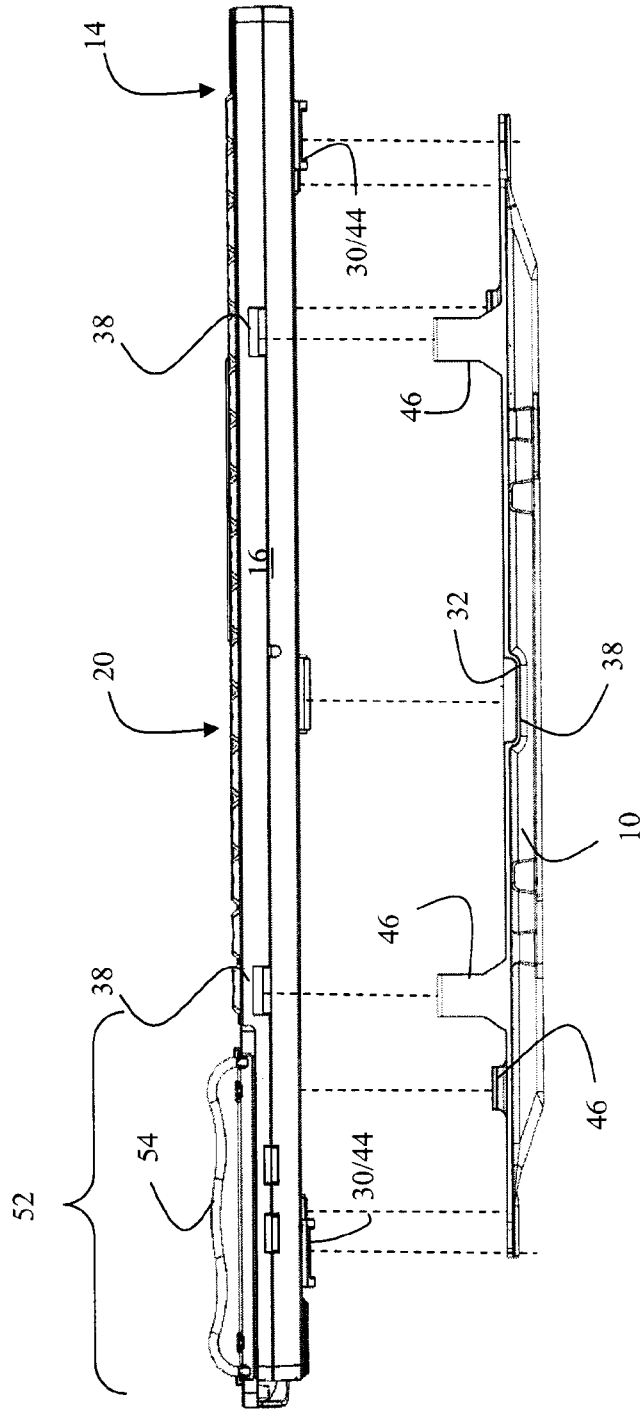
Side View  
Figure 30



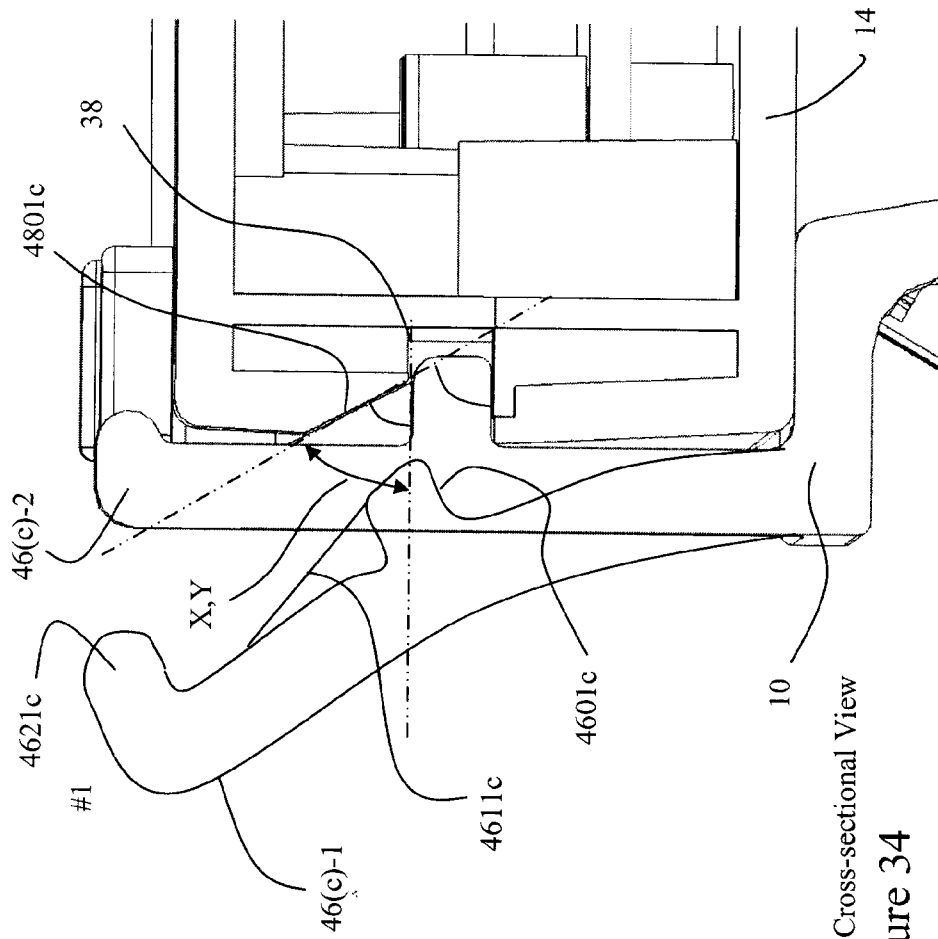
Side View  
Figure 31



Front View  
Figure 32



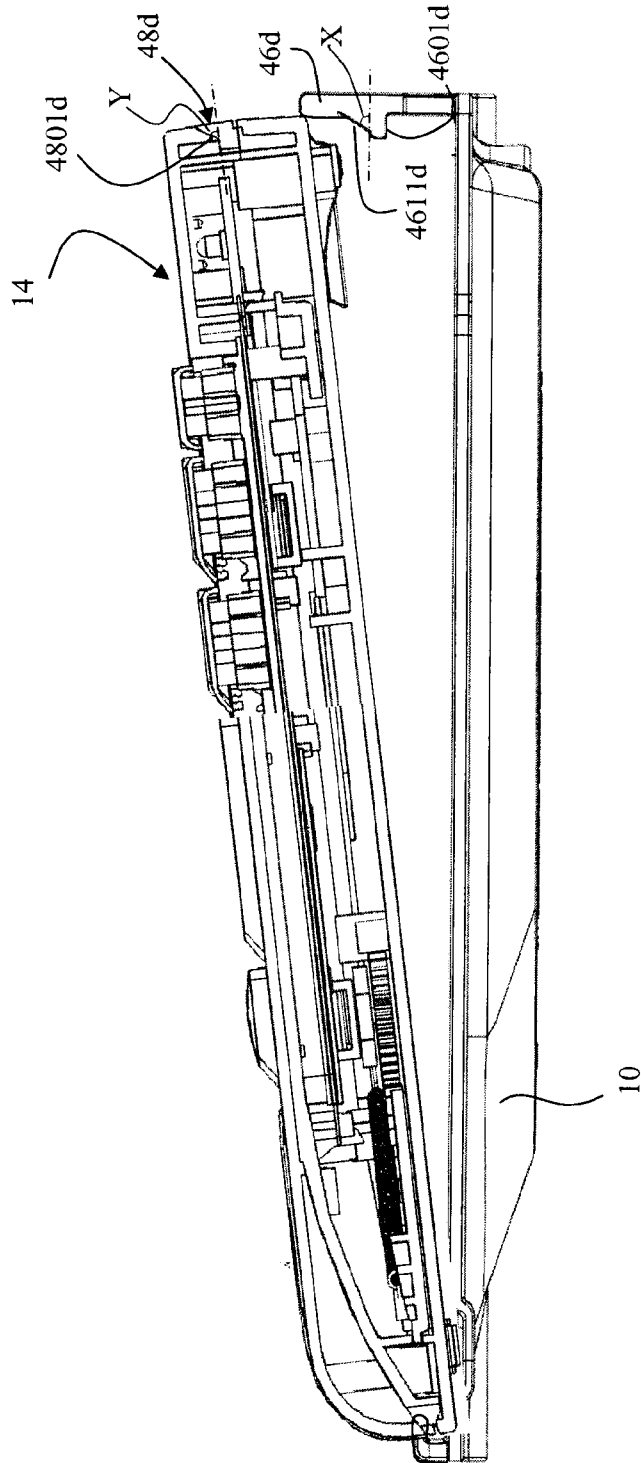
Rear View  
Figure 33



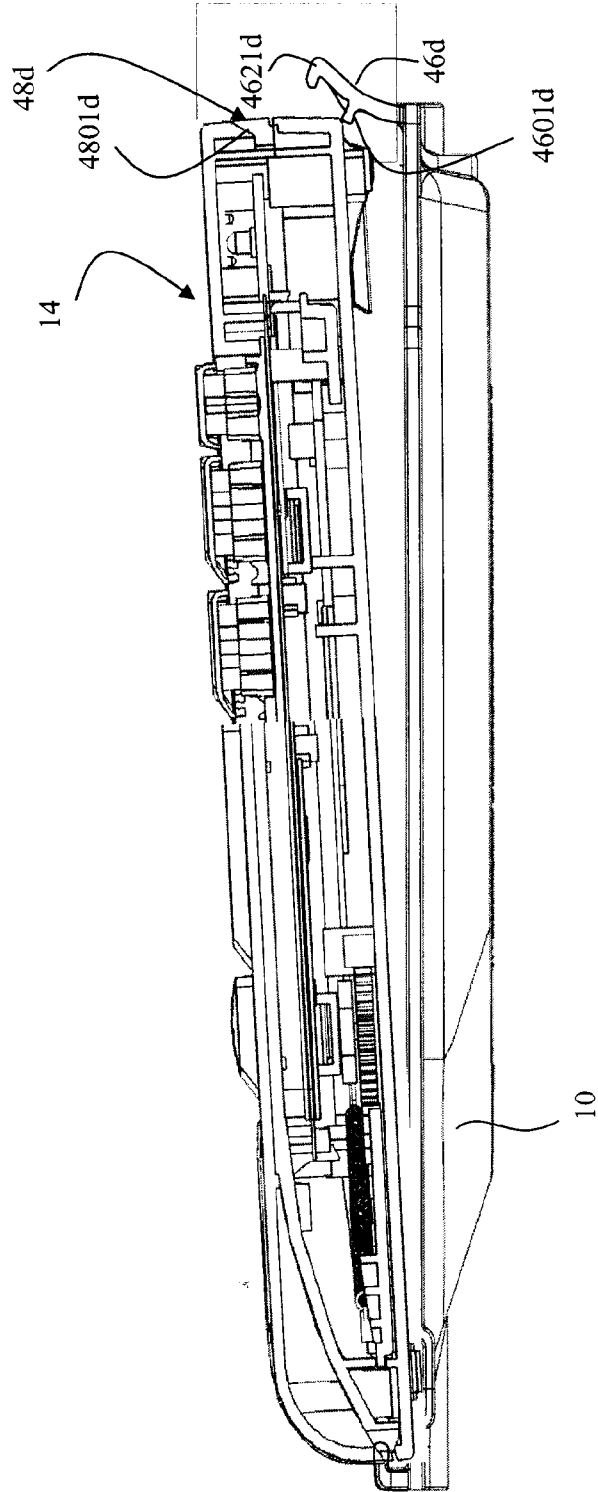
Left Side Cross-sectional View

Figure 34

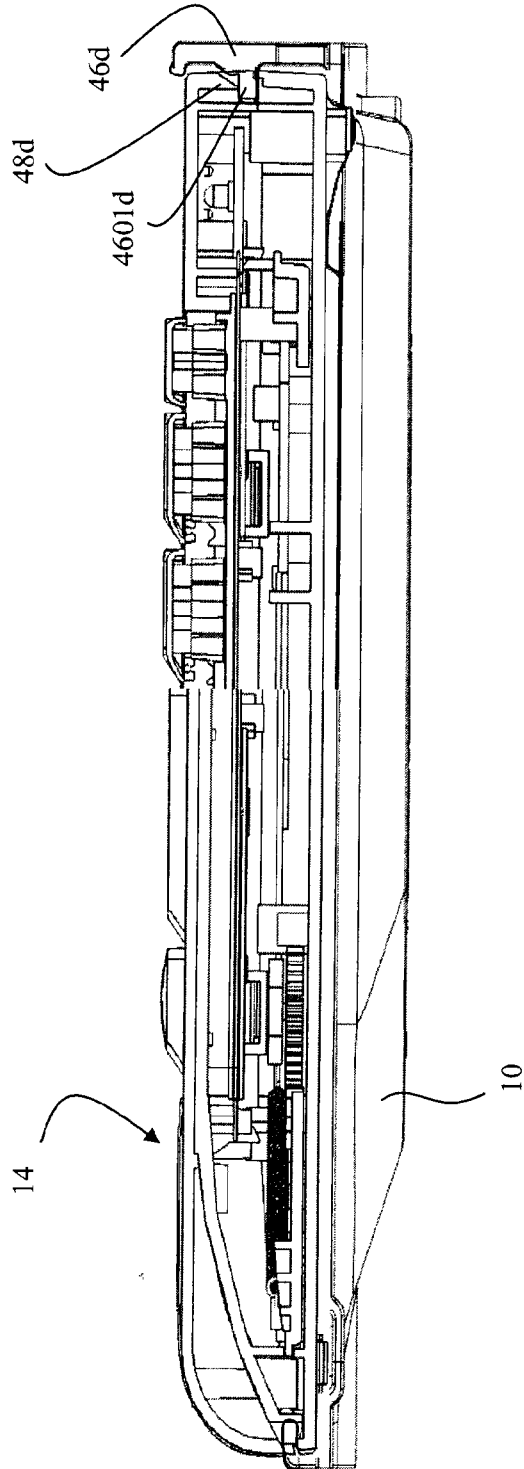




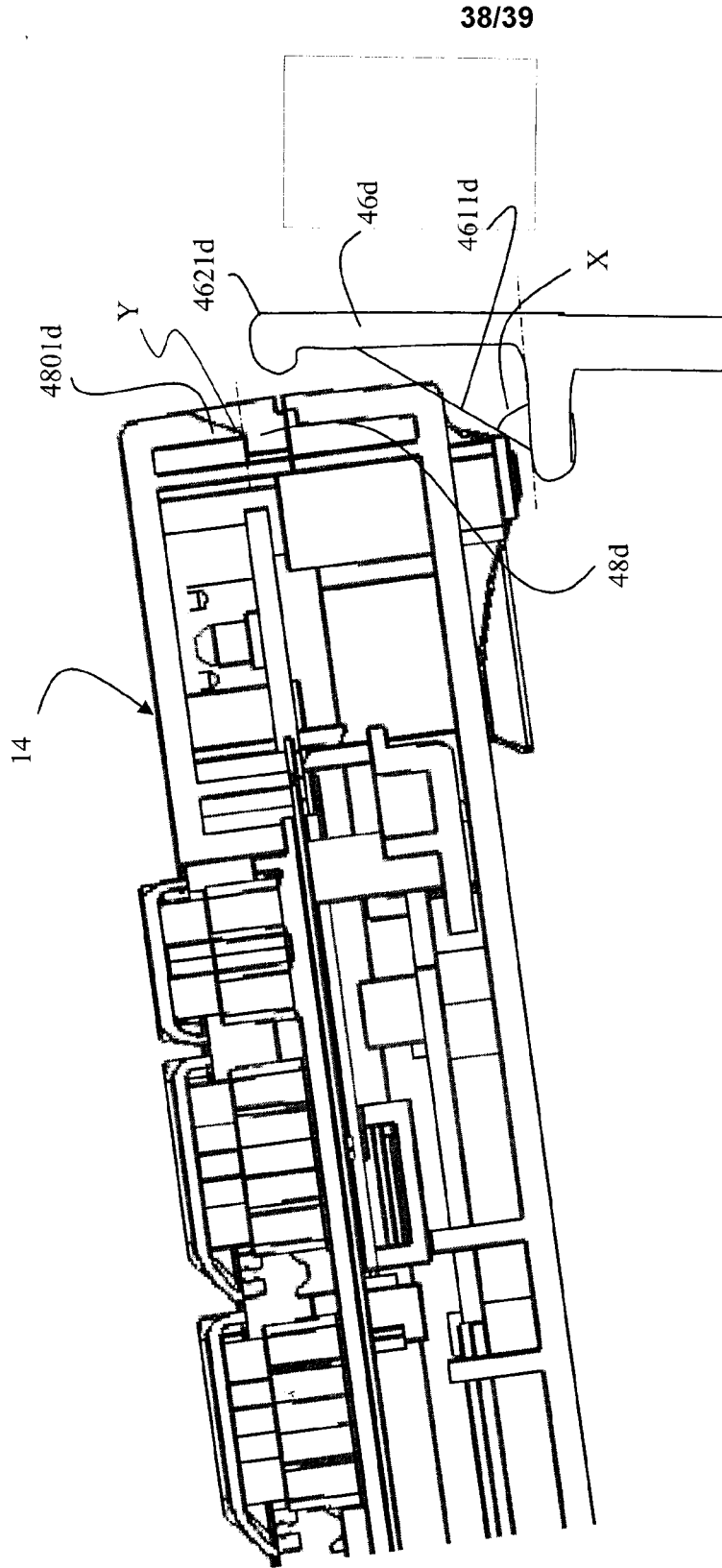
Side View  
Figure 35



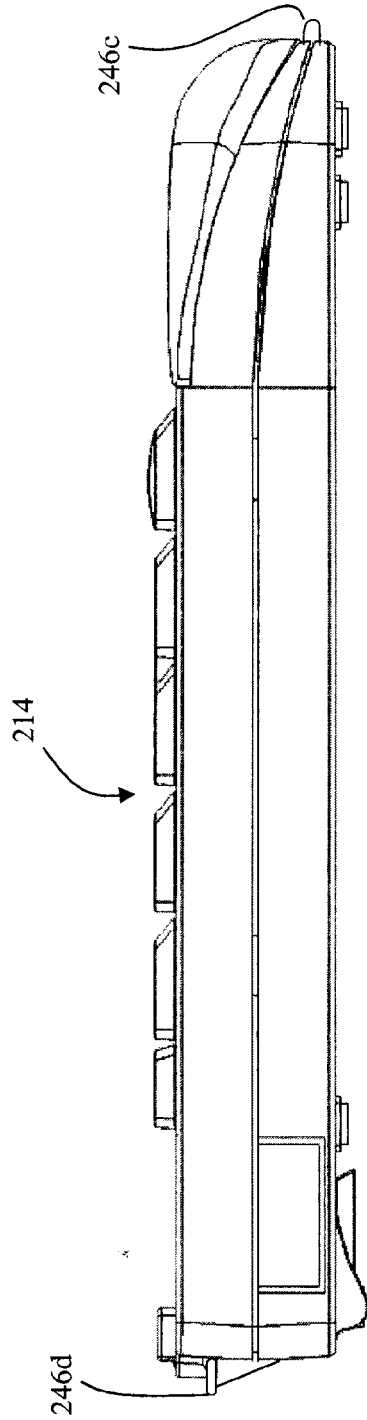
Side View  
Figure 36



Side View  
Figure 37



Side View  
Figure 38



Side View  
Figure 39

INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2008/000704

<p>A. CLASSIFICATION OF SUBJECT MATTER                  IPC: <b>A47B 21/04</b> (2006.01) , <b>H01H 13/70</b> (2006.01) , <b>H01H 9/02</b> (2006.01)                  According to International Patent Classification (IPC) or to both national classification and IPC</p>																																
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols)                  IPC (2006.01): A47B/all, F16M 11/all                  USPC: 248/all, 108/all</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p> <p>Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)                  Delphion, Canadian Patent Database, Google Scholar, WEST (keyboard, housing, tab or clamp, engage*, support)</p>																																
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>US 6,935,605 B2 (GILES, T. et al.) 30 AUGUST 2005 (30.08.2005) **Entire Document**</td> <td>1-75</td> </tr> <tr> <td>A</td> <td>US 5,510,953 A (MERKEL, H.) 23 APRIL 1996 (23.04.1996) **Entire Document**</td> <td>1-75</td> </tr> <tr> <td>A</td> <td>US 6,382,580 B1 (WISNIEWSKI, M.) 07 MAY 2002 (07.05.2002) **Entire Document**</td> <td>1-75</td> </tr> <tr> <td>A</td> <td>US 6,092,774 A (CHOY, A.) 25 JULY 2000 (25.07.2000) **Entire Document**</td> <td>1-75</td> </tr> <tr> <td>A</td> <td>US 6,290,411 B1 (SHIRAI, T.) 18 SEPTEMBER 2001 (18.09.2001) **Entire Document**</td> <td>1-75</td> </tr> </tbody> </table> <p><input type="checkbox"/> Further documents are listed in the continuation of Box C.      <input checked="" type="checkbox"/> See patent family annex.</p> <table border="1"> <tr> <td>* Special categories of cited documents :</td> <td>"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</td> </tr> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"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</td> </tr> <tr> <td>"E" earlier application or patent but published on or after the international filing date</td> <td>"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</td> </tr> <tr> <td>"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)</td> <td>"&amp;" document member of the same patent family</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td></td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	US 6,935,605 B2 (GILES, T. et al.) 30 AUGUST 2005 (30.08.2005) **Entire Document**	1-75	A	US 5,510,953 A (MERKEL, H.) 23 APRIL 1996 (23.04.1996) **Entire Document**	1-75	A	US 6,382,580 B1 (WISNIEWSKI, M.) 07 MAY 2002 (07.05.2002) **Entire Document**	1-75	A	US 6,092,774 A (CHOY, A.) 25 JULY 2000 (25.07.2000) **Entire Document**	1-75	A	US 6,290,411 B1 (SHIRAI, T.) 18 SEPTEMBER 2001 (18.09.2001) **Entire Document**	1-75	* Special categories of cited documents :	"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	"A" document defining the general state of the art which is not considered to be of particular relevance	"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	"E" earlier application or patent but published on or after the international filing date	"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	"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)	"&" document member of the same patent family	"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	
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"P" document published prior to the international filing date but later than the priority date claimed																																
<p>Date of the actual completion of the international search</p> <p>26 June 2008 (26-07-2008)</p>	<p>Date of mailing of the international search report</p> <p>27 August 2008 (27-08-2008)</p>																															
<p>Name and mailing address of the ISA/CA</p> <p>Canadian Intellectual Property Office                  Place du Portage I, C114 - 1st Floor, Box PCT                  50 Victoria Street                  Gatineau, Quebec K1A 0C9                  Facsimile No.: 001-819-953-2476</p>	<p>Authorized officer</p> <p><b>Siavash Mohajer</b> 819- 934-3466</p>																															

**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of the 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.  Claim Nos. :  
because they relate to subject matter not required to be searched by this Authority, namely :
  
2.  Claim 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.  Claim Nos. :  
because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. 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 :

Group A - Claims 1-50, 59-66, 68, and 70-75 are directed to a keyboard-keyboard support combination comprising a keyboard having a key support surface, an engagement tab projecting from the keyboard and keyboard support, an engagement surface (or receiving well) provided on the keyboard and the keyboard support .

Group B - Claims 51-58, 67, and 69 are directed to a keyboard-keyboard support combination comprising a keyboard, a keyboard support wherein the keyboard support is coupled to the keyboard by way of snap-fit engagement.

Group C - Claims 76-79 are directed to a keyboard comprising a plurality of data input keys, a mousepad section, and mouse retainer.  
Continued on additional page...

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 additional fees, this Authority did not invite payment of additional fees.
  
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 claim 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 claim Nos. :  
1-69, 70-75, 99, and 100 (Groups A and B)

**Remark on Protest**  The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
**PCT/CA2008/000704**

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
US6935605 B2	30-08-2005	NONE	
US5510953 A	23-04-1996	AU4462696 A EP0740810 A1 WO9616367 A2	17-06-1996 06-11-1996 30-05-1996
US6382580 B1	07-05-2002	CA2329096 A1	16-05-2002
US6092774 A	25-07-2000	NONE	
US6290411 B1	18-09-2001	JP9134230 A WO9739402 A1	20-05-1997 23-10-1997



**Continuation of Box III:**

Group D - Claims 80-86 and 90 are directed to a keyboard-keyboard support combination or workstation assembly having a QWERTY key area with at least 50 keys, a mousepad surface, wherein the maximum width of the keyboard support is less than 19 inches.

Group E - Claims 87-89, 91-93, 95, and 97-100 are directed to a keyboard support configured for receiving and attaching to a mounting plate of a keyboard mounting mechanism comprising a recessed mounting surface corresponding to the mounting plate of the keyboard mounting mechanism.

Group F - Claims 94 and 96 are directed to a workstation assembly or keyboard-keyboard support combination comprising a keyboard and keyboard support wherein the minimum horizontal distances between the letters on the keyboard are specified.

Group G - Claims 101-104 are directed to a keyboard support comprising a plastic support assembly and a ballast assembly.

Group H - Claim 105 is directed to a keyboard-keyboard support combinations where the maximum thickness of the combination of the keyboard and the keyboard support is less than 2 inches.

It should be noted that claims 95, 99, and 100 were placed in incorrect groups in ISA form 206 dated 09 May 2008 (09-05-2008). This issue has been rectified in the ISR and WO.