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US 20120267491 A1

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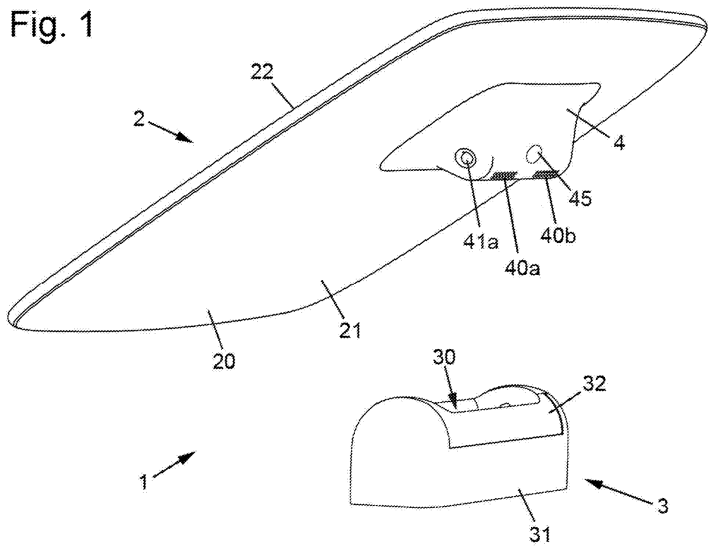
Other: **WPI, EPODOC and TXTE**

(54) Title of the Invention: **Tablet display device security system**
Abstract Title: **Tablet Display Device Security System**

(57) A security system 1 is provided for receiving and securing a tablet display device 23. The system comprises a first attachment such as a dock 3 securable to a surface 10. The dock comprises a housing 31 and a saddle 32 pivotably mounted within the housing. The saddle has a cavity 30. The system further comprises a second attachment such as a foot 4 securable to the tablet display device. The foot is shaped to be received within the cavity. First and second locking arrangements are provided for releasably connecting the first and second attachments and may be a pair of retaining pins located in the cavity of the saddle and a corresponding pair of indents in the foot designed to receive the locking pins. The attachment means may be released by a key or RFID key. A cable connection point maybe provided in the first and second attachment means.

Fig. 1



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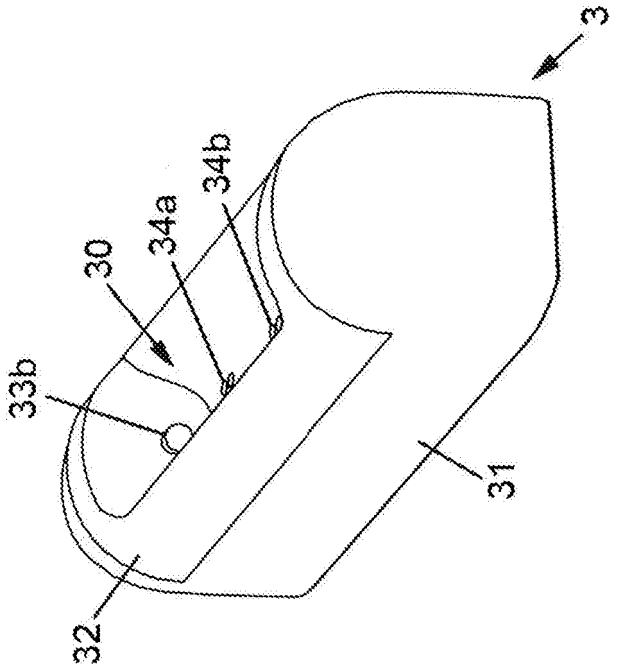


Fig. 2

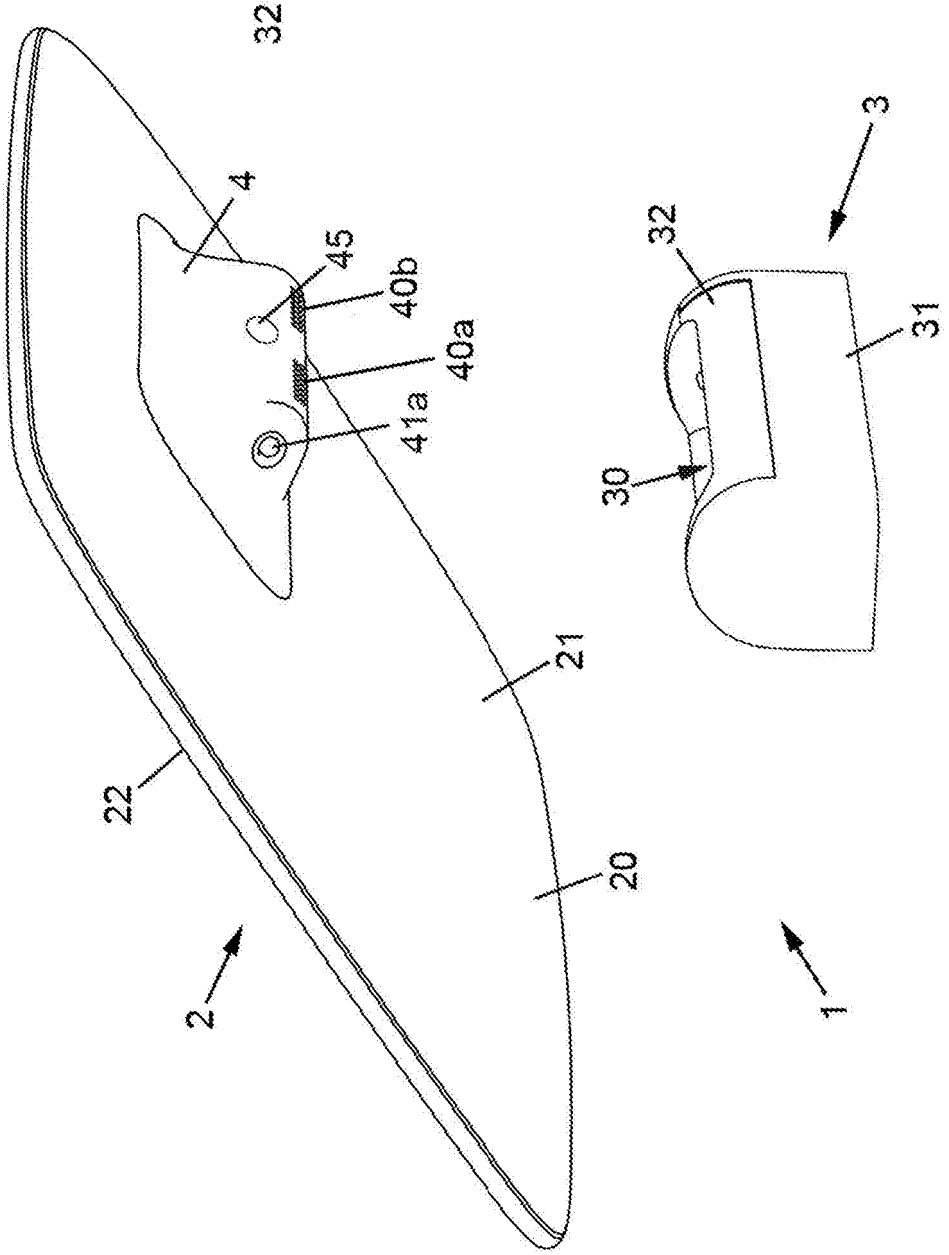


Fig. 1

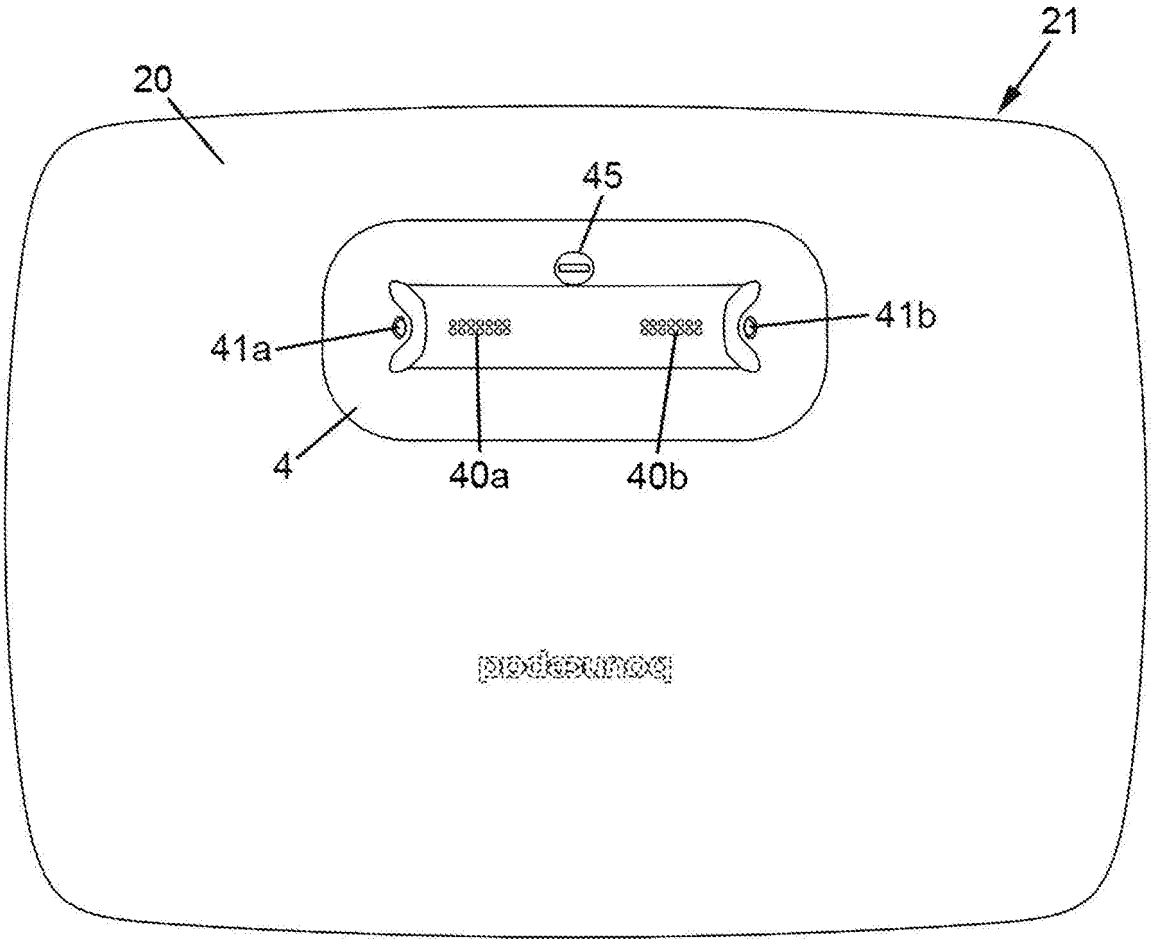


Fig. 3

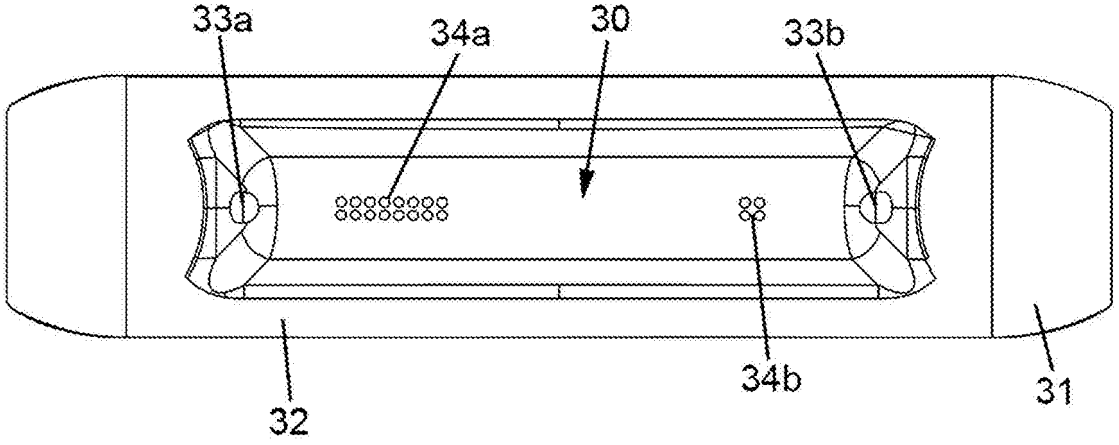


Fig. 4

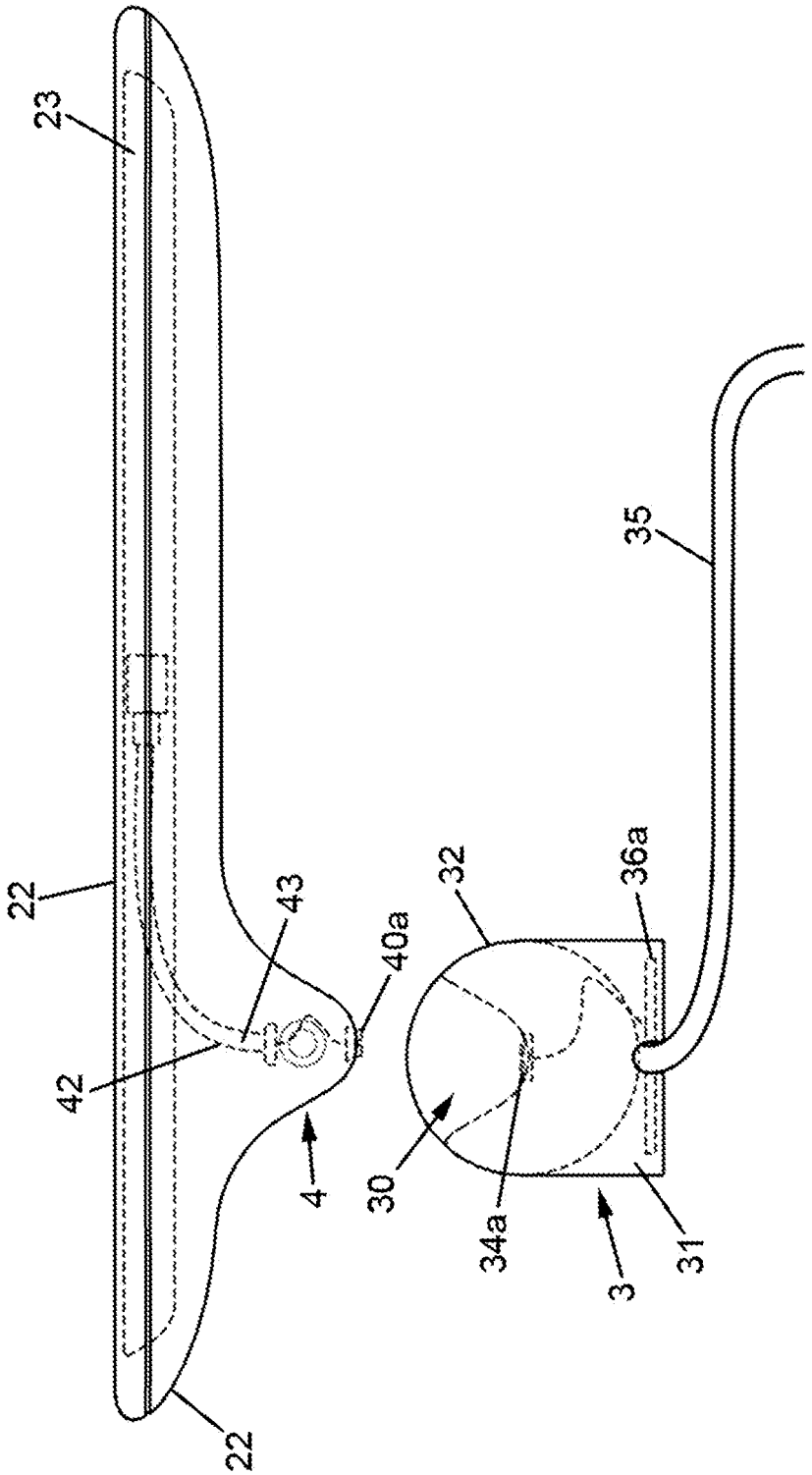


Fig. 5

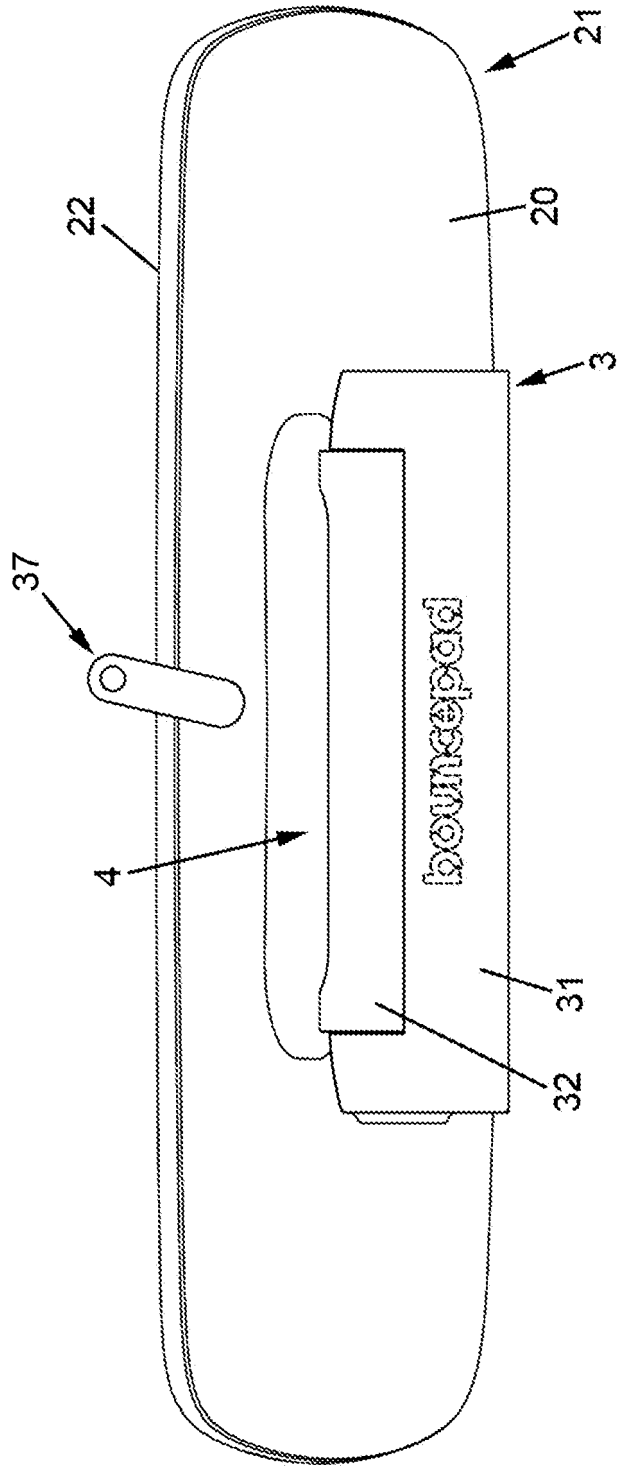
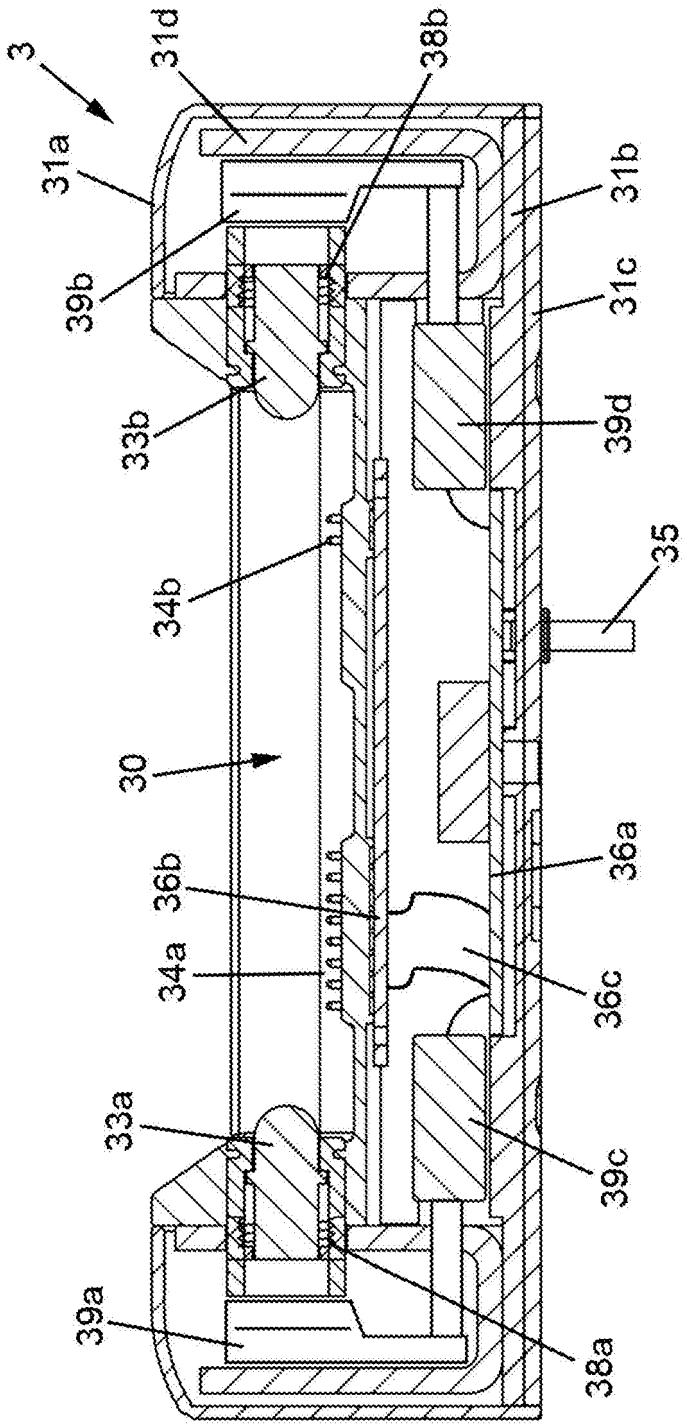


Fig. 6


3
31d
38b
31a
31b
39b
31c
33b
39d
35
34b
30
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36b
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36c
33a
39c
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Fig. 7

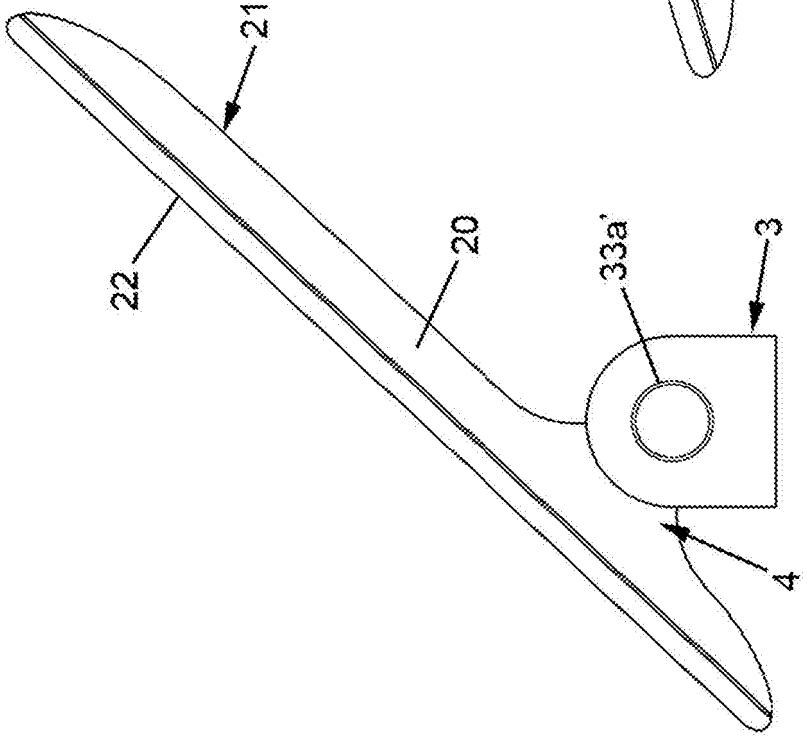

Fig. 8

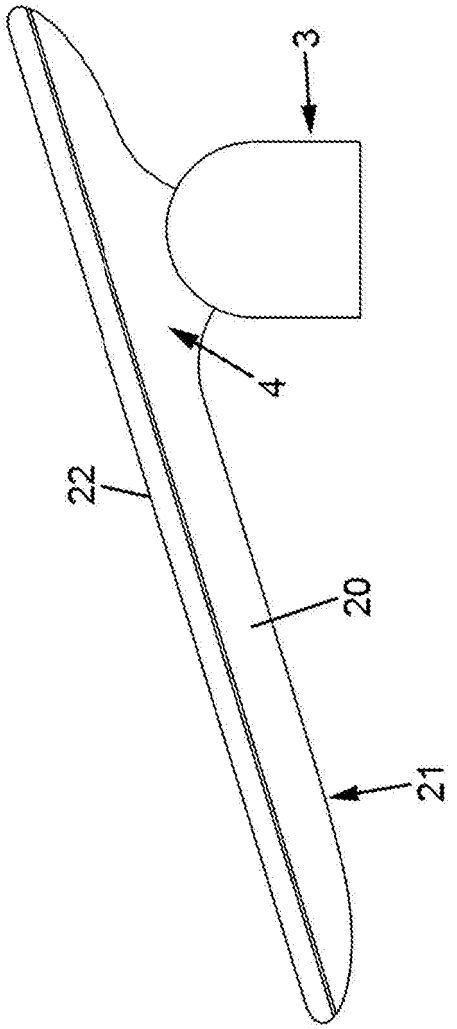

Fig. 9

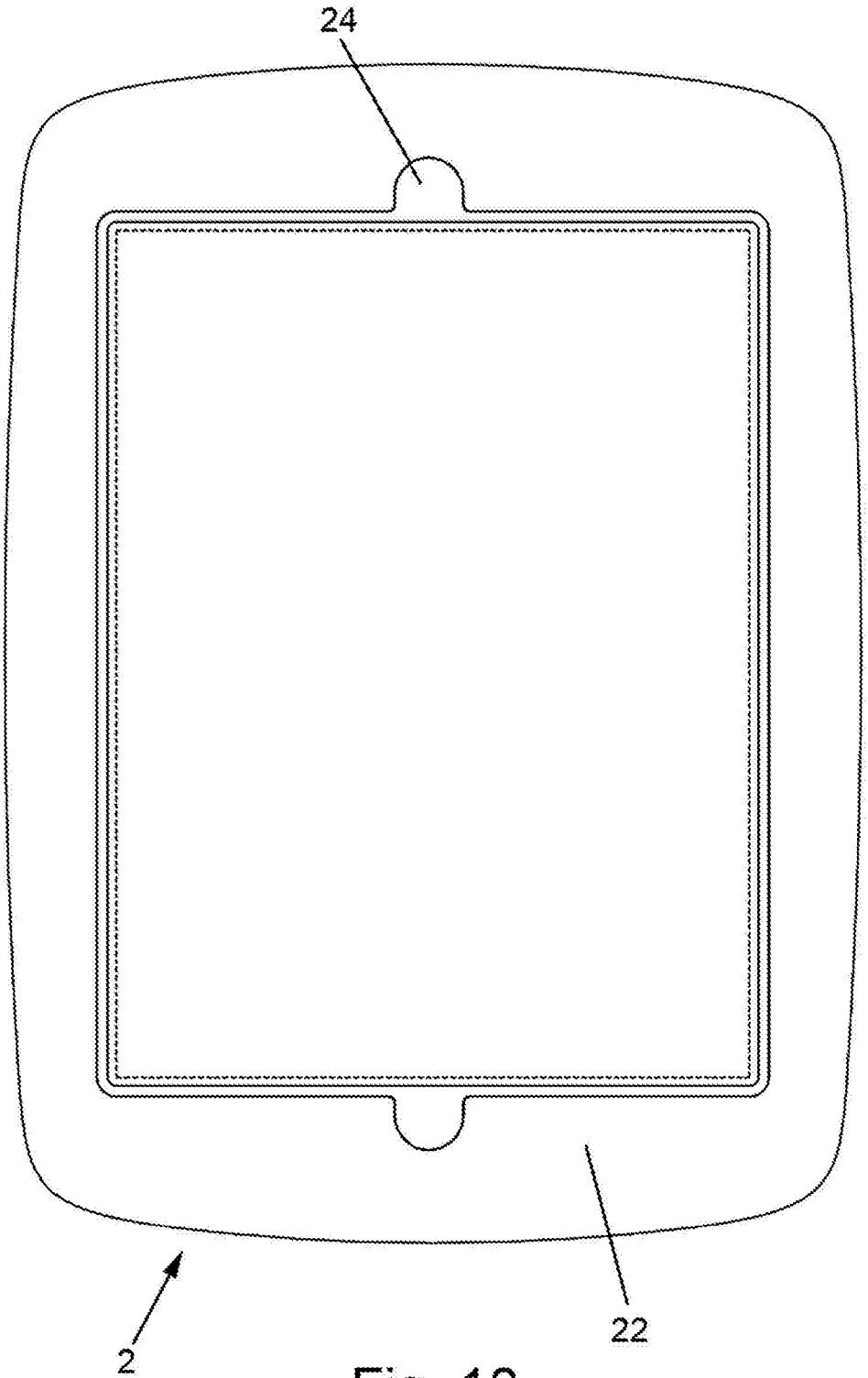

Fig. 10

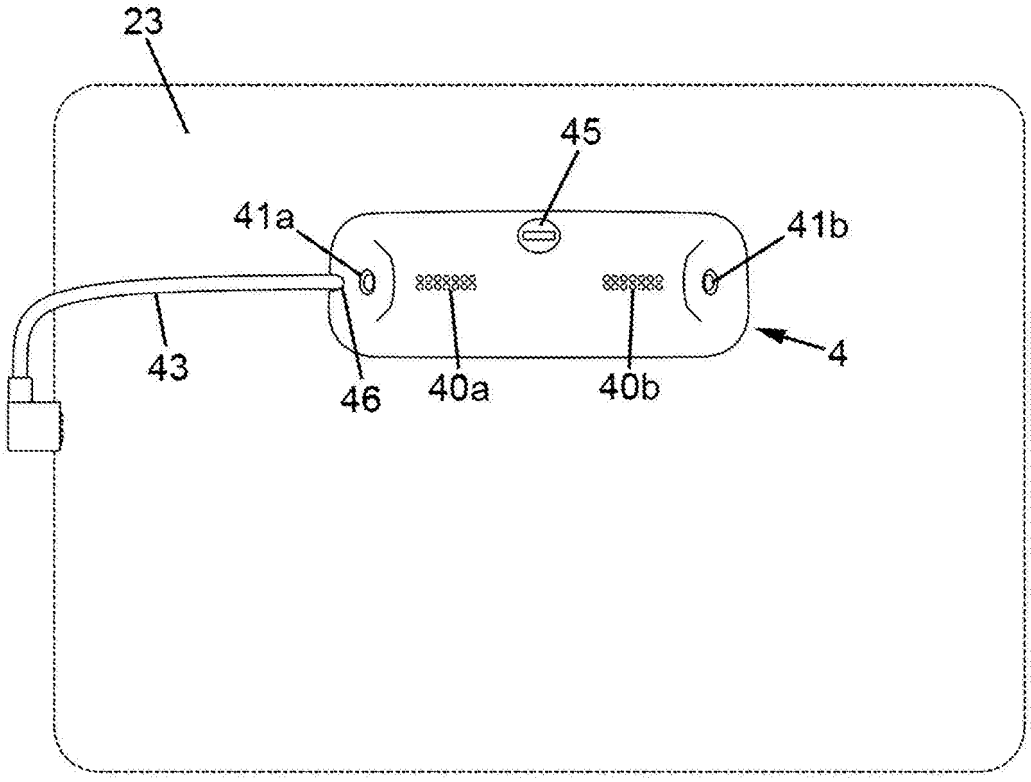

Fig. 11

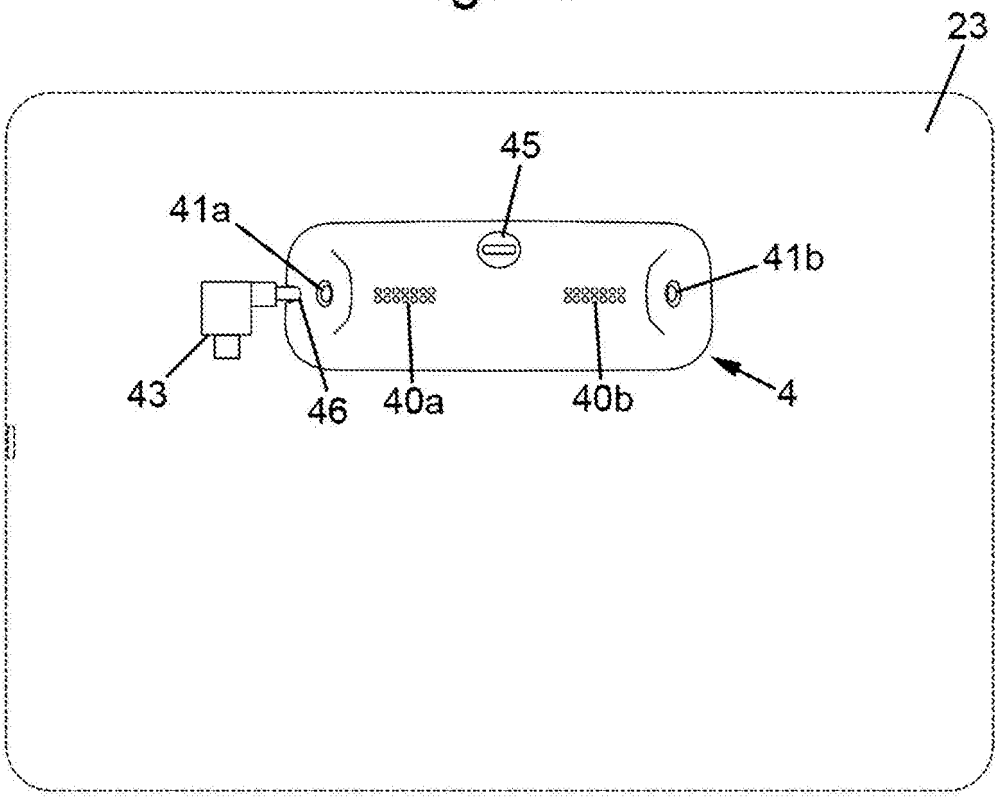

Fig. 12

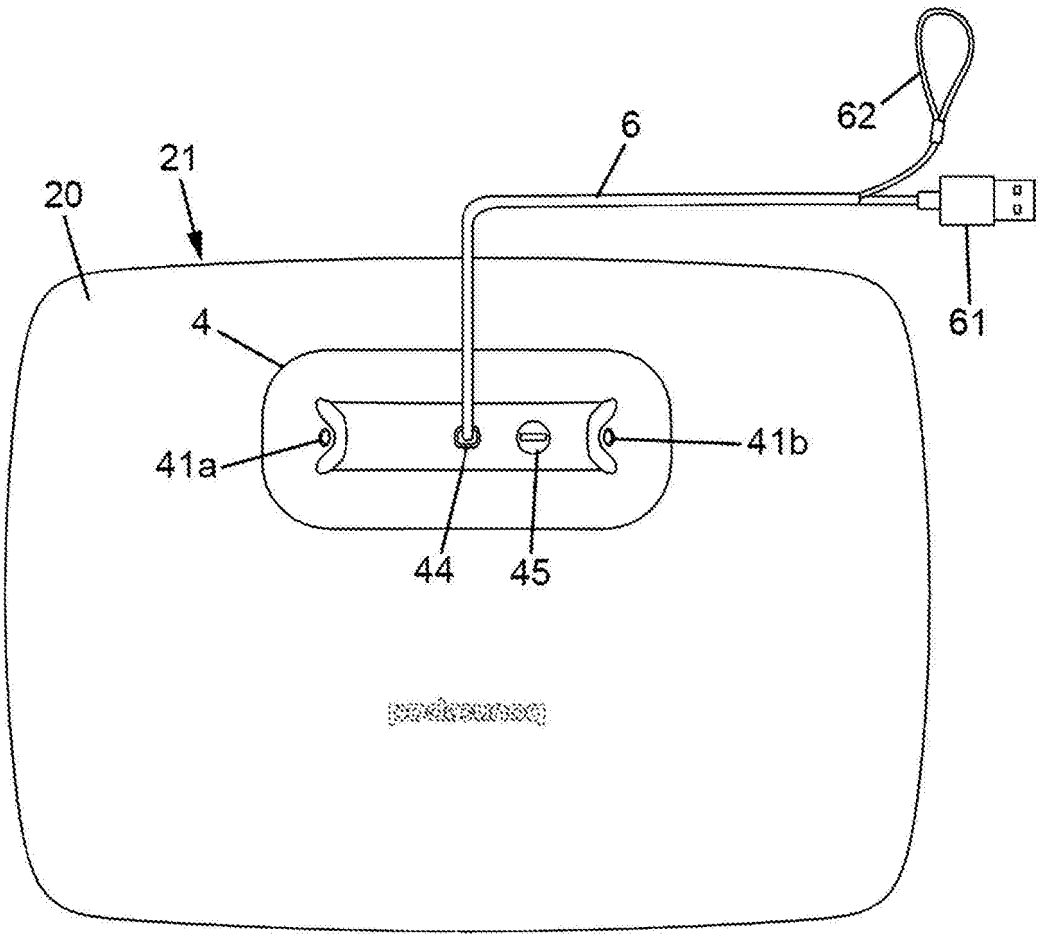

Fig. 13

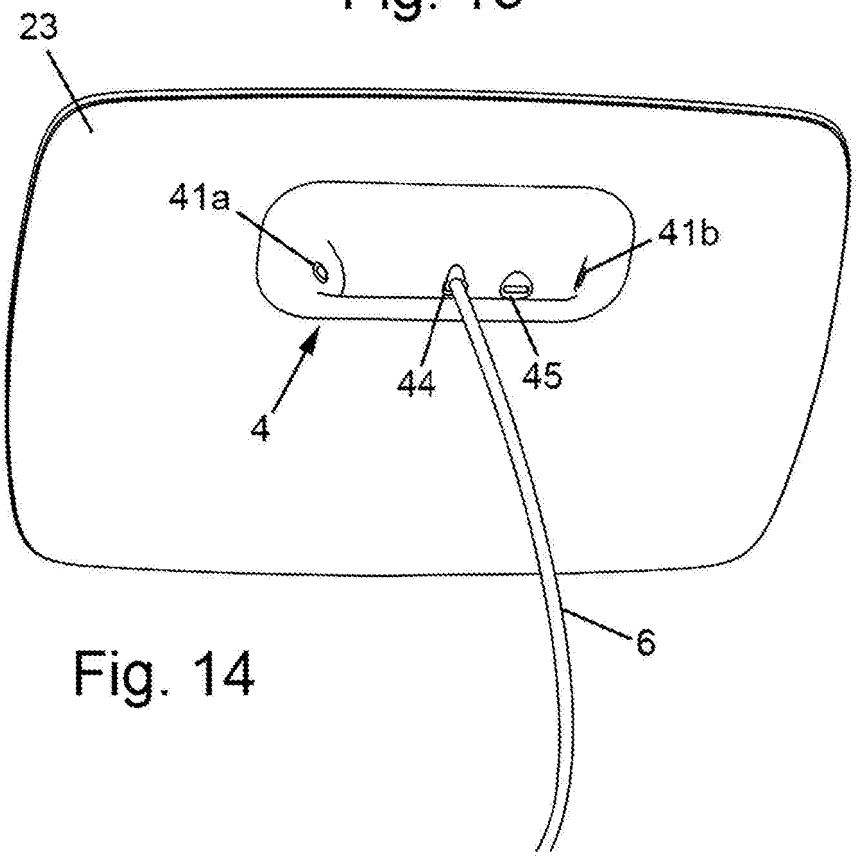

Fig. 14

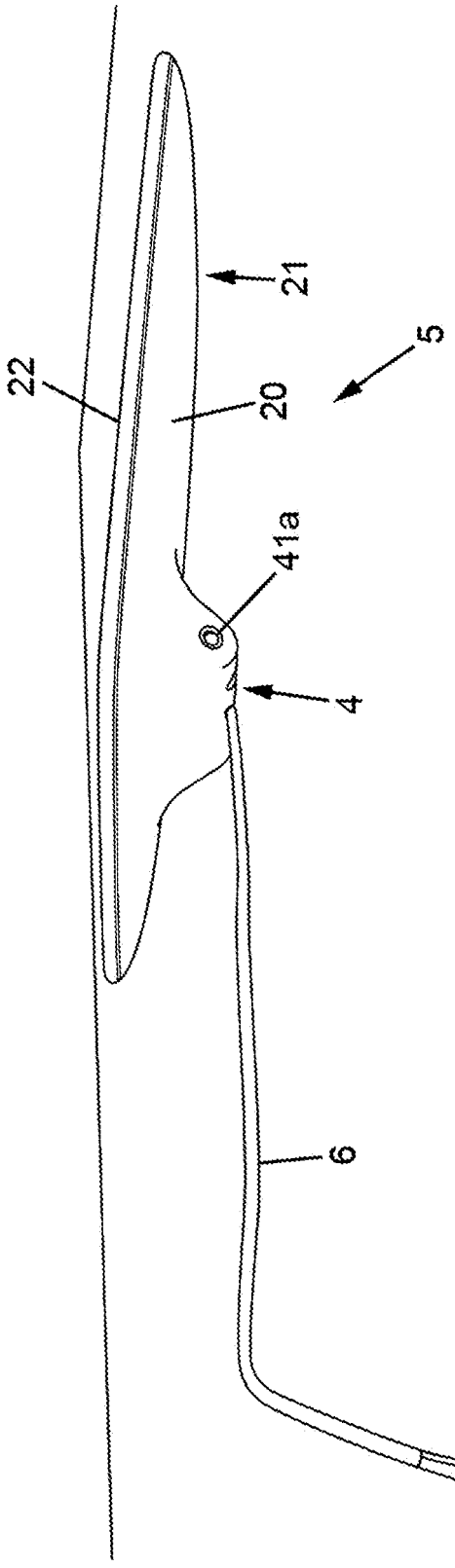

Fig. 15

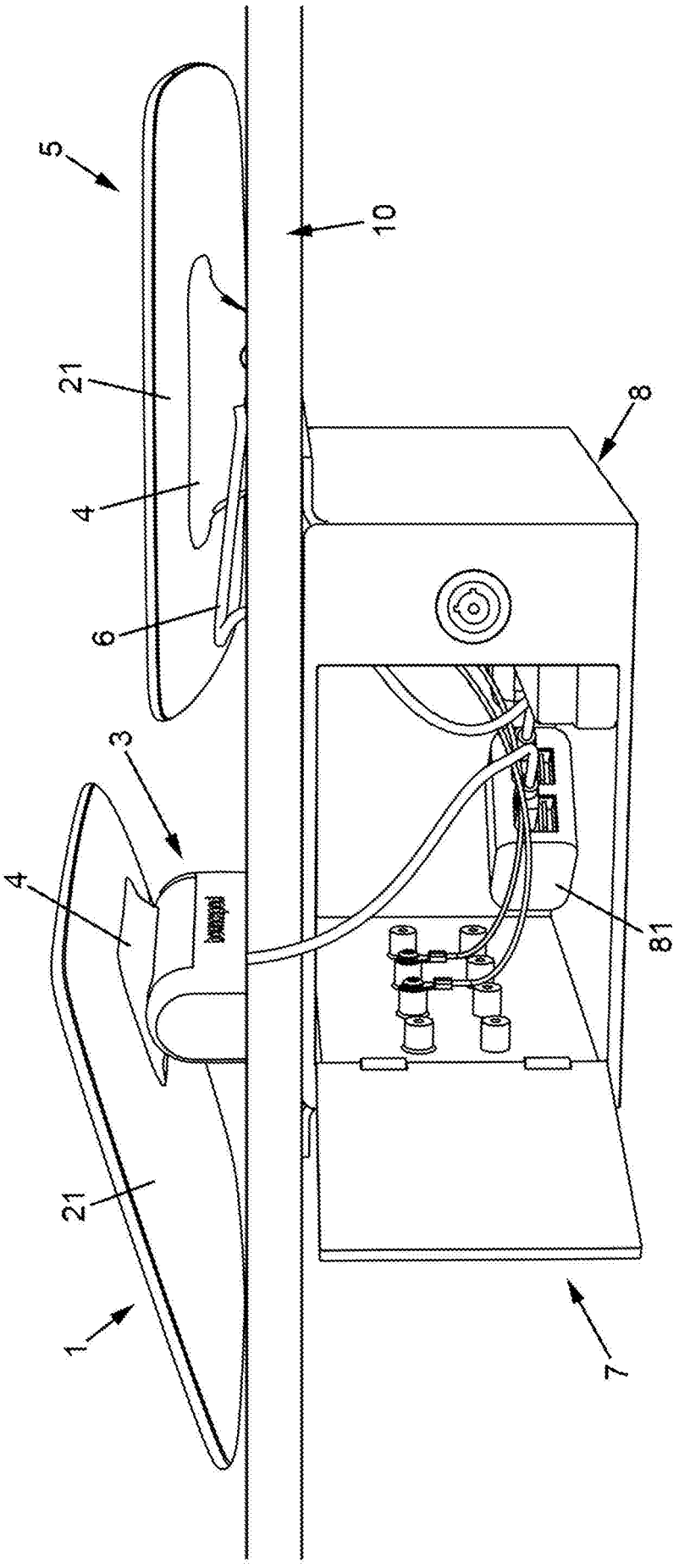

Fig. 16

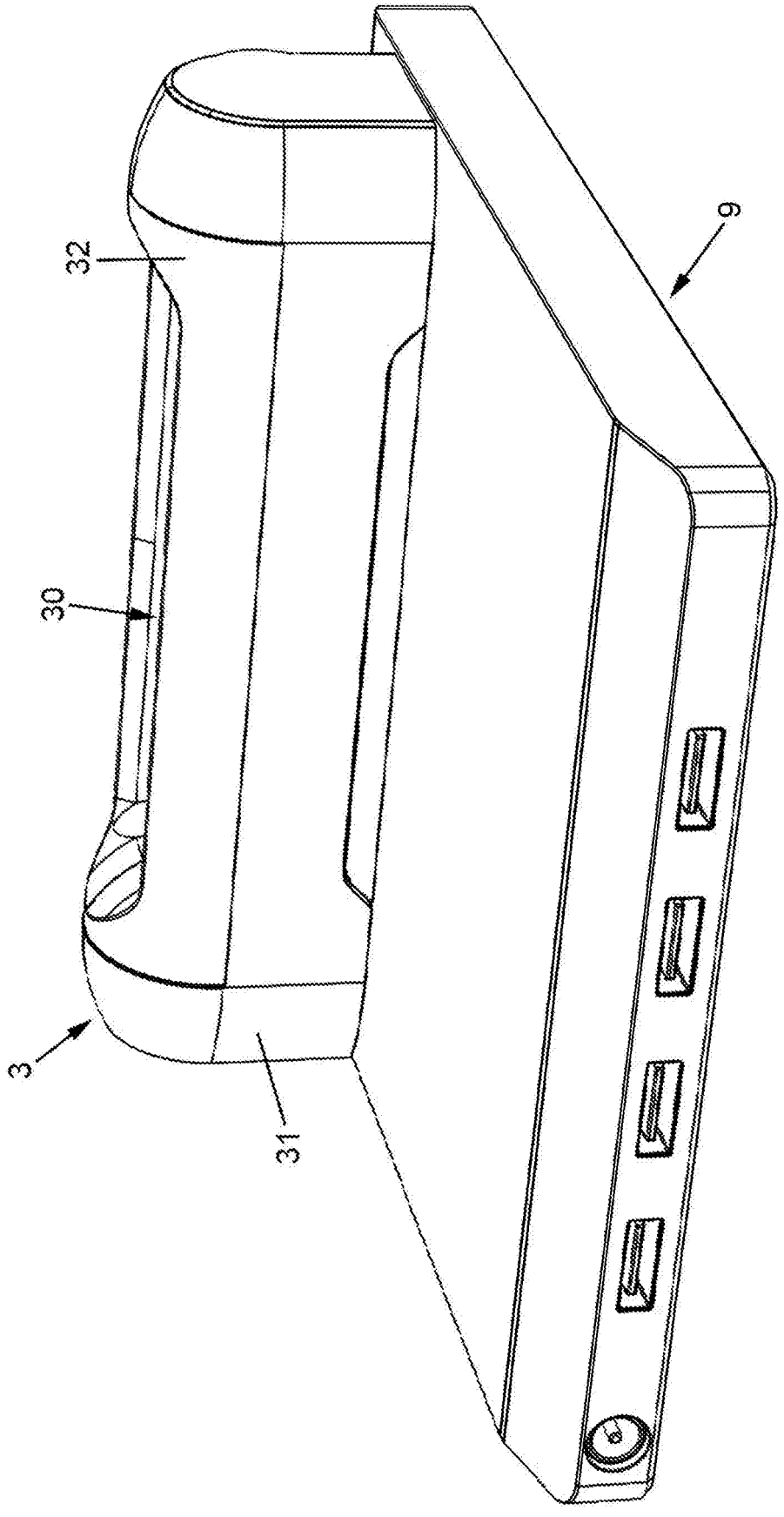

Fig. 17

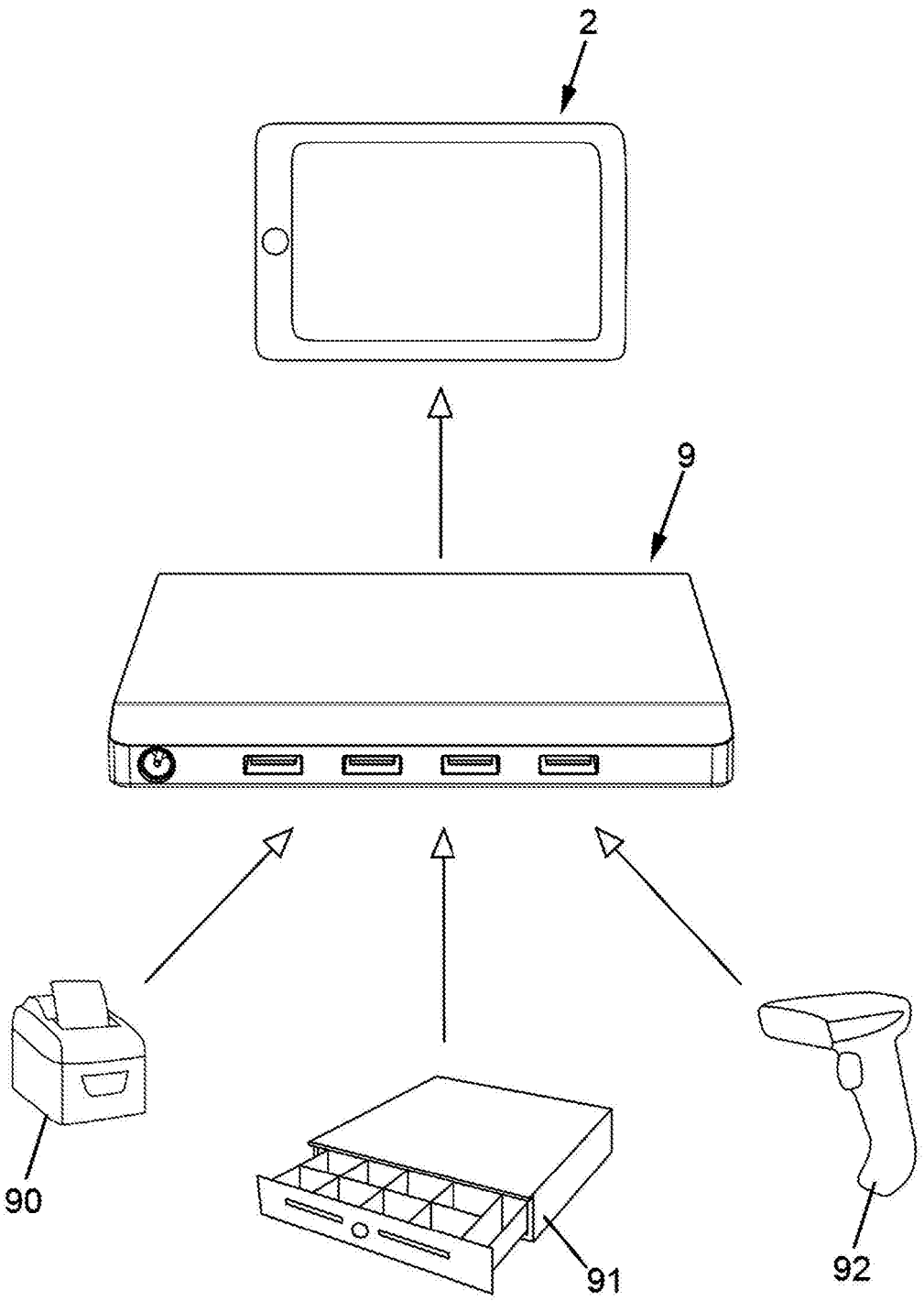

Fig. 18

Tablet Display Device Security System

Technical Field

The present invention relates to a tablet display device security system. In particular, the present invention relates to a system for releasably attaching a tablet display device to a display surface.

Background to the Invention and Prior Art

Electronic media tablet display devices are an increasingly common feature in places of business such as retail establishments for use by the customers and employees, and can be used as an effective marketing tool for many companies. In such instances tablet display devices can serve multiple purposes, for example, to provide information, entertainment, advertisement, to provide a point of sale, or any other purpose that may be useful or beneficial to the user.

Benefits of using tablet display devices for such purposes are that they are compact and portable. However, these advantageous features mean that when a tablet display device is on public display, it is at a high risk of theft. Consequently, security measures are required in order to prevent theft, or at the very least delay the thief long enough to then be detained.

Examples of known tablet device display assemblies that include physical security measures include US 2013/0342087 and US 8,542,495.

Although known security measures for tablet display devices are capable of securing tablet display devices in public locations whilst still enabling use of the tablet display device, they are commonly unattractive, and unadaptable to the user's needs. They are often secured in such a way that it is difficult to insert or remove the tablet display device, which may be necessary in order to charge or clean the device. Being removable also helps shop staff to assist customers with their purchases with the aid of the mobile tablet device (assisted selling). Being removable also allows a tablet device to perform different functions in the one environment depending on what is required, for example, for assisted selling, as a simple display screen, or as a point-of sale device etc.

Summary of Invention

According to a first aspect of the invention, there is provided a secure enclosure for a tablet display device comprising a first attachment means securable to a surface, the first attachment means comprising a housing and a saddle pivotably mounted within the housing, the saddle having a first cavity, a second attachment means securable to the tablet display device, the second attachment means having a portion shaped to be received within the first cavity, and a first locking arrangement for releasably connecting the first and second attachment means.

According to one embodiment, the first locking arrangement comprises first locking parts forming part of the first attachment means and second locking parts forming part of the second attachment means, wherein the first and second locking parts are cooperative with each other.

In other embodiments, the first cavity is elongate and the first locking parts are located at opposed ends of the first cavity, and the second attachment means is elongate and the second locking parts are located at opposed ends of the second attachment means.

In further embodiments, the first locking parts comprise a pair of retaining pins and the second locking parts comprise a corresponding pair of indents. Preferably, one or both of the retaining pins are sprung loaded.

According to another embodiment, the tablet display device enclosure further comprises a pair of swing arms and associated actuators, the swing arms and actuators being configured to move the swing arms from a first position, located behind the sprung loaded retaining pins, to a second position which is clear of the sprung loaded retaining pins.

The first and second locking parts may be locked by insertion when the first attachment means and the second attachment means are connected.

In one embodiment, the second attachment means is released from the first attachment means by insertion of a key associated with the first locking arrangement.

According to a further embodiment, the first attachment means further comprises an RFID antenna, and wherein the second attachment means is released from the first attachment means by means of an RFID key in communication with the RFID antenna.

In some embodiments, the second attachment means comprises a second cavity suitable for at least partially enclosing at least one cable connectable to the tablet display device. The first attachment means may further comprise at least one cable connection point and the second attachment means may further comprise at least one cable connector. The at least one cable connector and the at least one cable connection point may be in alignment when the first and second attachment means are connected.

According to one preferred embodiment, the at least one cable connection point is a sprung pin connector and the at least one cable connector is a sprung pin connector plate.

The second attachment means may be connectable to the first attachment means in at least two orientations.

According to a further aspect of the invention, there is provided a secure enclosure for a tablet display device further comprising a case defining a tablet cavity for receiving said tablet display device, the second attachment means forming part of the case, and a faceplate for closing the tablet cavity. Preferably, the second attachment means comprises a second locking arrangement arranged to secure the tablet display device within the case.

In one embodiment, the first attachment means is connected via at least one cable to a power source and the power source is disposed in a secure box which is mounted on a first side of a surface opposed to a second side of the surface to which the first attachment means is to be secured.

In further embodiments, the first attachment means further comprises a Bluetooth (RTM) chip module, wherein the Bluetooth chip module is capable of communication

with a geo-active communication system to determine the location of the second attachment means with respect to the location of the first attachment means.

Brief Description of the Drawings

The present invention will now be described by way of example only, and with reference to the accompanying drawings in which:

Figure 1 is a perspective view of a tablet display device security system according to a first embodiment of the present invention;

Figure 2 is a perspective view of a dock of the system of Figure 1;

Figure 3 is a rear view of a tablet device case of the system of Figure 1;

Figure 4 is a top view of the dock of Figure 1;

Figure 5 is a side partly sectional view of the system of Figure 1;

Figure 6 is a rear view of a tablet device security system according to a second embodiment of the present invention;

Figure 7 is a section view of the dock of the system of Figure 1;

Figure 8 is a side view of the tablet device security system of Figure 1 when the dock is connected to the case in a first orientation;

Figure 9 is a side view of the tablet device security system of Figure 1 when the dock is connected to the case in a second orientation;

Figure 10 is a front view of an example tablet device case to be used in embodiments of the present invention;

Figure 11 is a first rear view of a tablet device according to a third embodiment of the present invention;

Figure 12 is a second rear view of the tablet device according to the third embodiment;

Figure 13 is a rear view of a tablet display device of a tablet display device security system according to a fourth embodiment;

Figure 14 is a perspective rear view of the tablet display device according to the fourth embodiment;

Figure 15 is a perspective rear view of the system of Figure 13;

Figure 16 is a perspective view showing an example of a tablet device security system;

Figure 17 is a perspective view of a dock of a tablet device security system according to a fifth embodiment of the present invention; and

Figure 18 shows an example of peripherals that may be used in conjunction with the fifth embodiment of the present invention.

Detailed Description of the Drawings

Figure 1 illustrates a tablet display device security system 1 comprising a tablet device enclosure 2 and a dock 3. The tablet display device enclosure 2 comprises a case 21 and a faceplate 22 which is releasably attached to the case 21, defining a cavity therebetween to receive a tablet display device 23 (shown in Figure 5). The case 21 includes a foot 4 which extends from a body 20 of the case 21.

As shown in Figure 2, the dock 3 comprises a housing 31 and a saddle 32 pivotably mounted within the housing 31. The housing 31 further functions as a case for internal components of the dock 3. The dock 3 provides a secure docking point or first attachment means for the tablet display device enclosure 2 that is compact and aesthetically pleasing when the tablet display device enclosure 2 is disengaged from the dock 3, for example when the enclosure 2 is used as a mobile device. The housing 31 of the dock 3 is to be secured to a surface, for example, a table, shop counter, wall, or any flat surface suitable for mounting the dock 3 using, for example, bolts or screws (not shown). The pivotable saddle 32 has a cavity 30, the shape of which matches that of the foot 4 such that the foot 4 fits snugly into the cavity 30.

Features of the foot 4 are shown further in Figure 3. The foot 4 is formed integrally with the case body 20 and configured to provide a second attachment means for

securing the tablet display device enclosure 2 to the first attachment means of the dock 3. The foot 4 is elongate and has an internal cavity 42, as shown in Figure 5, that is arranged to house at least a first tablet device cable 43 connectable to the tablet display device 23 housed in the tablet display device enclosure 2. It is appreciated, however, that other components may be housed in the internal cavity 42, such as further tablet device cables.

As shown in Figures 3 and 5, the foot 4 further includes a first tablet device cable connector 40a and a second tablet device cable connector 40b for the first tablet device cable 43 housed within the internal cavity 42. The tablet device cable connectors 40a-b are sprung pin connector plates such as those sold by Yokowo Co., Ltd.. As further shown by Figure 7, the dock 3 comprises a second tablet device cable 35 in a dock base 31b and which extends from a dock mounting plate 31c. The second tablet device cable 35 is coupled to a first printed circuit board (PCB) 36a mounted in the dock base 31b, which is coupled to a second printed circuit board (PCB) 36b via a PCB connector cable 36c. The second PCB 36b is connected to a first tablet device cable connector 34a protruding from the pivotable saddle 32 into the first cavity 30, wherein the tablet device cable connector 34a is rotatable with the pivotable saddle 32. The second PCB 36b may also be coupled to a second tablet device connector 34b, which enables the tablet display device 23 to be mounted to the dock 3 from either direction, such that the tablet device cable connector plates 40a-b (as shown by Figure 3) are in alignment with either of the first and second tablet device cable connectors 34a-b. A through hole is formed in the surface to which the dock 3 is secured so that the second tablet device cable 35 may be threaded through the surface, or routed along the top of the surface, and connected to a power source or other computer hardware via a further tablet device cable connector (not shown) at the end of the second tablet device cable 35.

When the foot 4 is inserted into the dock 3, the first tablet device cable connectors 34a is aligned with and connected to the tablet device cable connector plate 40a of the first tablet device cable 43 connected to the tablet device 23. As is known in the art, the first tablet device cable 43 may be utilised to provide power to the tablet display device 23 and/or a data connection from the tablet display device 23 to another device. For example, the first tablet device cable 43 may take audio and/or data from the tablet display device 23 to the dock 3 and beyond. Alternatively, if the foot 4 is inserted into

the dock 3 from the opposite direction, the second tablet device cable connector 34b is aligned with and connected to the tablet device cable connector plate 40a. This configuration enables the foot 4 to be connected to the dock 3 in one of two 180° spaced orientations. That is to say, the tablet display device enclosure 2 may be connected from both sides of the dock 3. In an alternative embodiment not shown, the dock 3 may comprise a single tablet device cable connector 34 that is located centrally, with a single tablet device cable connector plate 40 on the foot 4 also in a centralised location, such that tablet device cable connector 34 and tablet device cable connector plate 40 are always in alignment.

The dock 3 and the foot 4 as shown in Figures 1 to 4 are releasably connected via a first locking arrangement comprising of a first pair of locking parts 33a-b and a second pair of locking parts 41a-b cooperatively arranged. The first pair of locking parts 33a-b are located at opposed ends of the dock 3 and include protrusions. In a first configuration, as shown by Figure 7, the first locking parts 33a-b are sprung loaded retaining pins, each with an associated locking pin spring 38a-b, that engage with the second locking parts 41a-b, which are located at opposed ends of the elongate foot 4 and comprise indents, to retain the foot 4 within the cavity 30 of the saddle 32. The first locking parts 33a-b and second locking parts 41a-b are engaged with each other by insertion when the dock 3 and the foot 4 are connected. For example, the sprung loaded retaining pins 33a-b at each end of the dock 3 may engage with the indents on the foot 4, exerting a force on the foot 4 and automatically holding the tablet display device 23 in place. The parts 41a-b (indents) of the second locking parts 41a-b are identical and the foot 4 is symmetrical along its axis between these locking parts 41a-b so that the foot 4 can be inserted into the saddle 32 in one of two arrangements, i.e., with the part 41a engaging with the lock part 33a and the part 41b engaging with the part 33b or with the part 41a engaging with the part 33b and the part 41b engaging with the lock part 33a.

As shown in Figure 7, the dock 3 further comprises a first and second swing arms 39a-b, which are housed within a dock frame 31d and concealed by a dock cover 31a. The first and second swing arms 39a-b are configured to move from a first position, located directly behind the sprung loaded retaining pins 33a-b at each end of the dock 3, to a second position which is clear of the sprung loaded retaining pins 33a-b. The first and second swing arms 39a-b are coupled to first and second actuators 39c-d respectively.

The first and second actuators 39c-d are arranged to move the first and second swing arms 39a-b between their first and second positions.

Before the tablet display device enclosure 2 has been inserted into the dock 3, the first and second swing arms 39a-b are in their second position, clear of the sprung loaded retaining pins 33a-b. When the foot 4 is initially inserted into the dock 3, the foot pushes the sprung loaded retaining pins 33a-b outwards against the force of the locking pin springs 33a-b, thereby pushing the sprung loaded retaining pins 33a-b into the void vacated by the first and second swing arms 39a-b. Once the foot 4 has been fully inserted into the dock, the locking pin springs 33a-b urge the sprung loaded retaining pins 33a-b towards each other and at the same time an electrical connection is made between the tablet device cable connector 34a of the dock 3 and the tablet device cable connector plate 40a of the foot 4. When the system recognises that this electrical connection has been made the system actuates the first and second actuators 39c-d to rotate the first and second swing arms 39a-b from their second position, clear of the sprung loaded retaining pins 33a-b, to their first position, located directly behind the first locking parts 33a-b, restricting their backwards movement by creating a compressive stack behind the sprung loaded retaining pins 33a-b. As a result, the sprung loaded retaining pins 33a-b are locked in place, preventing the tablet display device 23 from being removed from the dock 3. Note that before the system has recognised that an electrical connection has been made between the connectors 34a, 40 the tablet display device enclosure 2 can be removed from the dock 3 by pulling the foot 4 out of the saddle cavity 30, thereby pushing the sprung loaded retaining pins 33a-b apart against the biasing force of the locking pin springs 33a-b. In this manner the tablet display device enclosure 2 is held in place in the dock 3, and the actuation of the first and second swing arms 39a-b is used to lock the tablet display device enclosure 2 in place. The system can be configured to automatically lock the tablet display device enclosure 2 in place a predetermined period of time after electrical connection is detected, e.g., 10 seconds, 20 seconds or a minute.

In one embodiment, shown by Figure 6, the first locking arrangement further comprises a Radio Frequency Identification (RFID) antenna (not shown) and an RFID fob 37 is associated with the RFID antenna, the RFID fob being kept in the possession of a particular person, for example, a member of staff. The RFID key fob 37 is held within

close range of the RFID antenna, which causes the RFID antenna to actuate the first and second actuators 39c-d such that they rotate the first and second swing arms 39a-b which are then withdrawn from behind the first locking parts 33a-b, enabling the foot 4 to be removed from the cavity 30 of the saddle 32. In doing this, the tablet display device enclosure 2 may then be used as a mobile device with the user being free to walk around with the tablet display device enclosure 2 in their hands.

In an alternative embodiment, one part 33a of the first locking parts 33a-b further comprises a lock 33a', as illustrated in Figure 8. A key (not shown) may be associated with the one part 33a'. In a first configuration, the first and second locking parts 33a-b engage with a corresponding part 41a-b of the second locking parts 41a-b to retain the foot 4 within the cavity 30 of the dock 3, as described in the above embodiment. In a second configuration, the key is inserted into the lock 33a' associated with locking part 33a, which then activates the first and second actuators 39c-d to release the first and second swing arms 39a-b such that the first and second locking parts 33a-b are withdrawn from the corresponding part 41a-b of the second locking parts 41a-b to release the foot 4 within the cavity 30 of the saddle 3. In doing this, the tablet display device enclosure 2 may then be used as a mobile device with the user being free to walk around with the tablet display device enclosure 2 in their hands.

The pivotable saddle 32 of the dock 3, shown by Figures 1, 2 and 5, is arranged such that when the foot 4 and the dock 3 are connected, the pivotable saddle 32 may be rotated within the housing 31 to pivot the tablet display device enclosure 2. This allows the user to view and interact with the screen of the tablet display device 23 at different angles, as demonstrated by Figures 8 and 9, for reasons such as the height of the user, or glare from overhead lights. The pivotable saddle 32 and housing 31 are arranged with a resistive means such that when the screen is tilted by the user it remains in that position until its position is adjusted further by the user. The resistive means may be in the form of a friction fit between these parts or by means of protrusions on one part which engage with one or more grooves on the other part, so that the case 2 and the saddle 3 may be positioned at a number of relative rotations or 'clicks'. The advantage of this arrangement is that the tablet display device enclosure 2 will not easily slip out of the preferred position whilst it is being used until a force is exerted by the user.

The foot 4 may further comprise a second locking arrangement 45, as illustrated in Figure 3, so as to secure the first tablet device cable 43 inside the internal cavity 42 and secure the tablet display device 23 inside the tablet device casing 21, wherein a second key (not shown) associated with the second locking arrangement 45 may be used to open the tablet device casing 21, allowing the user to access the tablet display device 23 if, for example, the tablet display device 23 is faulty and needs to be repaired or replaced. Alternatively, the second locking arrangement 45 may comprise a button release mechanism which may be pressed to open the tablet device casing 21.

As stated above, the tablet display device enclosure 2, shown by way of example in Figure 10, comprises a case (not shown) and a faceplate 22. The faceplate 22 has a through hole for accessing the touchscreen of the tablet device 23. The tablet device enclosure 2 may have a number of different configurations to suit the needs of the various tablet device 23 makes and models available on the market. For example, as shown in Figure 10, the faceplate 22 may include notches 24 for access to control features on the tablet device 23. Further features of the tablet device enclosure 2 may include an opening for a headphone jack, an opening for a camera device, or any other features to accommodate the development of tablet design.

In a third embodiment, illustrated in Figures 11 and 12, the foot 4 as described above may be secured directly onto a tablet device 23. This may be done, for example, using a high bond double sided adhesive tape. Once the foot 4 is securely attached to the tablet device 23 it can be mated to a dock 3 in the same manner as described above. Such an arrangement may be preferable where it is desirable that the whole tablet display device 23 can be seen, for example, in a retail store selling tablet devices. The first tablet display device cable 43 housed inside the foot 4 may then also exit out of a second connection exit point 46 and connect to the tablet display device 23, as shown in Figure 11. When the first tablet display device cable 43 is not in use such that it is not connected to the tablet display device 23, the first tablet device cable 43 may be retracted into the foot 4, as shown in Figure 12, in order to hide the tablet display device cable 43 and avoid the cable 43 dangling, which may look unsightly.

Figure 15 illustrates part of a tablet display device security system 5 according to a further embodiment of the present invention. In this embodiment a reinforced tablet device cable 6 runs through a first connection exit point 44, as further illustrated by

Figures 13 and 14, and connects to an external connection point via a tablet display device connector 61. Preferably, the reinforced tablet device cable 6 includes a cut resistant material such as a steel braid which is securely tethered to the inside of the tablet device case 21, and connects to the tablet display device 23 as demonstrated by Figure 5. Alternatively, the reinforced tablet device cable 6 may be securely fixed to the inside of the foot 4 which is attached directly on to a tablet display device 23, as illustrated by Figure 11 and 12. The reinforced tablet display device cable 6 may then be anchored to an anchorage point via a loop of cable 62, allowing the user to move around with the tablet display device enclosure 2 with some degree of freedom, but without being able to walk away from the anchorage point. Preferably, the anchorage point is inaccessible, to deter theft of the tablet display device enclosure 2.

Figure 16 provides an example of a security system 7 according to embodiments of the present invention. The security system 7 may include a first tablet device security system 1 comprising a dock 3 and a tablet device enclosure 2 comprising a foot 4, wherein the foot 4 is releasably connectable to the dock 3. The dock 3 is anchored to a surface 10, for example, a table, shop counter, wall, or any flat surface suitable for mounting the first tablet device security assembly 1 using, for example, bolts or screws (not shown). As shown in Figure 5, the second tablet cable connector 34 may be connected to a second tablet display device cable 35 which extends out of the base of the housing 31. The second tablet display device cable 35 may then be fed through an aperture in the surface 10 to be connected to any external power sources, other computer hardware or an Internet connection. In this respect, the security system 7 may include a power safe box 8 containing an external power source 81 or other computer hardware, to which the tablet display device assembly 1 may be connected securely via the tablet display device cable 35. The power safe box 8 provides a secure enclosure that may be mounted under a surface 10 allowing the tablet display device security systems 1, 5 to be connected without the need for routing any tablet display device cables to remote power points, thus extending the life of the tablet device 23 batteries whilst on display. The security system 7 may also include a second tablet device security system 5, as illustrated by Figures 13 and 15, in which the tablet display device security assembly 5 is anchored to the power safe box 8 by the reinforced tablet display device cable 6 fed through an aperture in the surface 10.

In a further embodiment as shown by Figure 17, the dock 3 may further comprise a USB Hub 9 which acts as a physical base for the dock 3 and provides connection to any third party peripherals that may be used in conjunction with the tablet display device 23. As exemplified by Figure 18, these peripherals may include printers 90, cash drawers 91, scanners 92, or any other apparatus capable of being connected to a tablet display device. This is particularly useful for tablet display devices that are used to make sales, or provide other sales or marketing materials to the user. Alternatively, the USB Hub 9 may be separate from the dock 3 and mounted to a surface, for example, below the surface to which a tablet device security assembly, such as those shown in Figure 16, is secured.

A further feature that may be incorporated into the invention described herein, is the use of a low energy Bluetooth (RTM) chip. In this respect, a Bluetooth chip module (not shown) with a unique identification number may be located in the dock 3. The owner of a tablet display device security system according to embodiments of the invention may then use this identification number to link the dock 3 to a location based geo-active content system. The system can then sense the relative distance from the dock 3 to the tablet display device 23, wherein a second Bluetooth chip is embedded in the tablet display device 23 as is common in most commercial tablet devices, as well as the distance to the Bluetooth chip located in the mobile devices of consumers in a particular public space, for example, the mobile phones of shoppers within a certain area of a retail outlet. By using multiple Bluetooth chips, the system can start to triangulate signals to determine the location of mobile devices within the particular space. This distance and location data can then be used in a number of ways.

Firstly, the tablet display device 23 within the tablet display device enclosure 21 can be used to show content specific to an area of a space, for example, display shoe product information in the shoe department of a retail store, activate the sales function of a computer application when docked in connection with a sales point, or put the tablet display device 23 to sleep when docked in a storage space, and the like. The tablet display device 23 within the tablet display device enclosure 21 can be used to track how customers, via their mobile phone devices, and staff move within a store. This information can then be analysed for marketing purposes. Additionally, the tablet

display device 23 within the tablet display device enclosure 21 may also be used to show content specific to a customer, based on the presence of their mobile phone.

Various modifications will be apparent to those in the art and it is desired to include all such modifications as fall within the scope of the accompanying claims.

For example, in the first embodiment the foot 4 is formed integrally with the case body 20. In alternative embodiments the foot 4 may be formed separately from the case body 20 and attached thereto during assembly of the case 2.

Additionally, in all embodiments described herein, the foot 4 may be positioned in a portrait orientation with respect to the tablet display device 23, such that the orientation of the foot 4 shown in Figures 1 - 16 may be rotated by 90°.

CLAIMS

1. A tablet display device security system for receiving and securing a tablet display device, the system comprising:

a first attachment means securable to a surface, the first attachment means comprising a housing and a saddle pivotably mounted within the housing, the saddle having a first cavity;

a second attachment means securable to the tablet display device, the second attachment means having a portion shaped to be received within the first cavity; and

a first locking arrangement for releasably connecting the first and second attachment means.

2. A system according to claim 1, wherein the first locking arrangement comprises first locking parts forming part of the first attachment means and second locking parts forming part of the second attachment means, wherein the first and second locking parts are cooperative with each other.

3. A system according to claim 2, wherein the first cavity is elongate and the first locking parts are located at opposed ends of the first cavity.

4. A system according to claims 2 or 3, wherein the second attachment means is elongate and the second locking parts are located at opposed ends of the second attachment means.

5. A system according to any of claims 2 to 5, wherein the first locking parts comprise a pair of retaining pins and the second locking parts comprise a corresponding pair of indents.

6. A system according to claim 5, wherein one or both of the retaining pins are sprung loaded.

7. A system according to claim 6, further comprising a pair of swing arms and associated actuators, the swing arms and actuators being configured to move the swing arms from a first position, located behind the sprung loaded retaining pins, to a second position which is clear of the sprung loaded retaining pins.

8. A system according to any of claims 2 to 7, wherein the first and second locking parts are locked by insertion when the first attachment means and the second attachment means are connected.

9. A system according to any of claims 2 of 8, wherein the second attachment means is released from the first attachment means by insertion of a key associated with the first locking arrangement.

10. A system according to any of claims 2 to 8, wherein the first attachment means further comprises an RFID antenna, and wherein the second attachment means is released from the first attachment means by means of an RFID key in communication with the RFID antenna.

11. A system according to any preceding claim, wherein the second attachment means comprises a second cavity suitable for at least partially enclosing at least one cable connectable to the tablet display device.

12. A system according to any preceding claim, wherein the first attachment means further comprises at least one cable connection point, and wherein the second attachment means further comprises at least one cable connector.

13. A system according to claim 12, wherein the at least one cable connector and the at least one cable connection point are in alignment when the first and second attachment means are connected.

14. A system according to claims 12 or 13, wherein the at least one cable connection point is sprung pin connector, and wherein the at least one cable connector is a sprung pin connector plate.

15. A system according to any preceding claims, wherein the second attachment means is connectable to the first attachment means in at least two orientations.

16. A system according to any preceding claims and further comprising

a case defining a tablet cavity for receiving said tablet display device, the second attachment means forming part of the case; and

a faceplate for closing the tablet cavity.

17. A system according to claim 16, wherein the second attachment means comprises a second locking arrangement arranged to secure the tablet display device within the case.

18. A system according to any preceding claim, wherein the first attachment means is connected via at least one cable to a power source.

19. A system according to claim 18, wherein the power source is disposed in a secure box which is mounted on a first side of a surface opposed to a second side of the surface to which the first attachment means is to be secured.

20. A system according to any preceding claim, wherein the first attachment means further comprises a Bluetooth chip module.

21. A system according to claim 20, wherein the Bluetooth chip module is capable of communication with a geo-active communication system to determine the location of the second attachment means with respect to the location of the first attachment means.

22. A tablet display device security system as hereinbefore described with reference to Figures 1 to 9.

23. A tablet display device security system as hereinbefore described with reference to Figures 11 and 12.

24. A tablet display device security system as hereinbefore described with reference to Figures 13 to 15.

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Claims searched:	1-21	**Date of search:**	2 March 2015

Patents Act 1977: Search Report under Section 17

Documents considered to be relevant:

Category	Relevant to claims	Identity of document and passage or figure of particular relevance
X	1, 2, 8, 9 and 15	US2013/0026322 A1 (WHEELER et al.) See paragraphs 0009, 0034, 0037 and figures 2 & 11
X	1, 2, 8 and 15	US2012/0267491 A1 (CHIU) See paragraphs 0005, 0019, 0030 and figures 1, 4 and 6
X,E	1, 2, 8, 9, 11, 12, 13, 15 and 16	WO2014/151743 A1 (GRZIWOK et al.) See paragraphs 0024, 0026, 0038, 0046, 0047 and figures 1 & 3

Categories:

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.

Field of Search:

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC^{X} :

Worldwide search of patent documents classified in the following areas of the IPC

A47F; E05B; F16M; G06F

The following online and other databases have been used in the preparation of this search report

WPI, EPODOC and TXTE

International Classification:

Subclass	Subgroup	Valid From
G06F	0021/88	01/01/2013
E05B	0073/00	01/01/2006
F16M	0011/06	01/01/2006
G06F	0001/16	01/01/2006