



(19) **United States**

(12) **Patent Application Publication**

Vasquez et al.

(10) **Pub. No.: US 2022/0400841 A1**

(43) **Pub. Date: Dec. 22, 2022**

(54) **GRIP DEVICE TO ENABLE A NUMBER OF OPERATIONS ASSOCIATED WITH A PORTABLE ELECTRONIC DEVICE BASED ON ATTACHMENT THERETO**

Publication Classification

(51) **Int. Cl.**
A45F 5/10 (2006.01)
(52) **U.S. Cl.**
CPC *A45F 5/10* (2013.01); *A45F 2200/0516* (2013.01); *A45F 2005/1013* (2013.01)

(71) Applicants: **Robert Vasquez**, Gilbert, AZ (US);
Yanbei Qin, Ningbo (CN)

(72) Inventors: **Robert Vasquez**, Gilbert, AZ (US);
Yanbei Qin, Ningbo (CN)

(21) Appl. No.: **17/892,025**

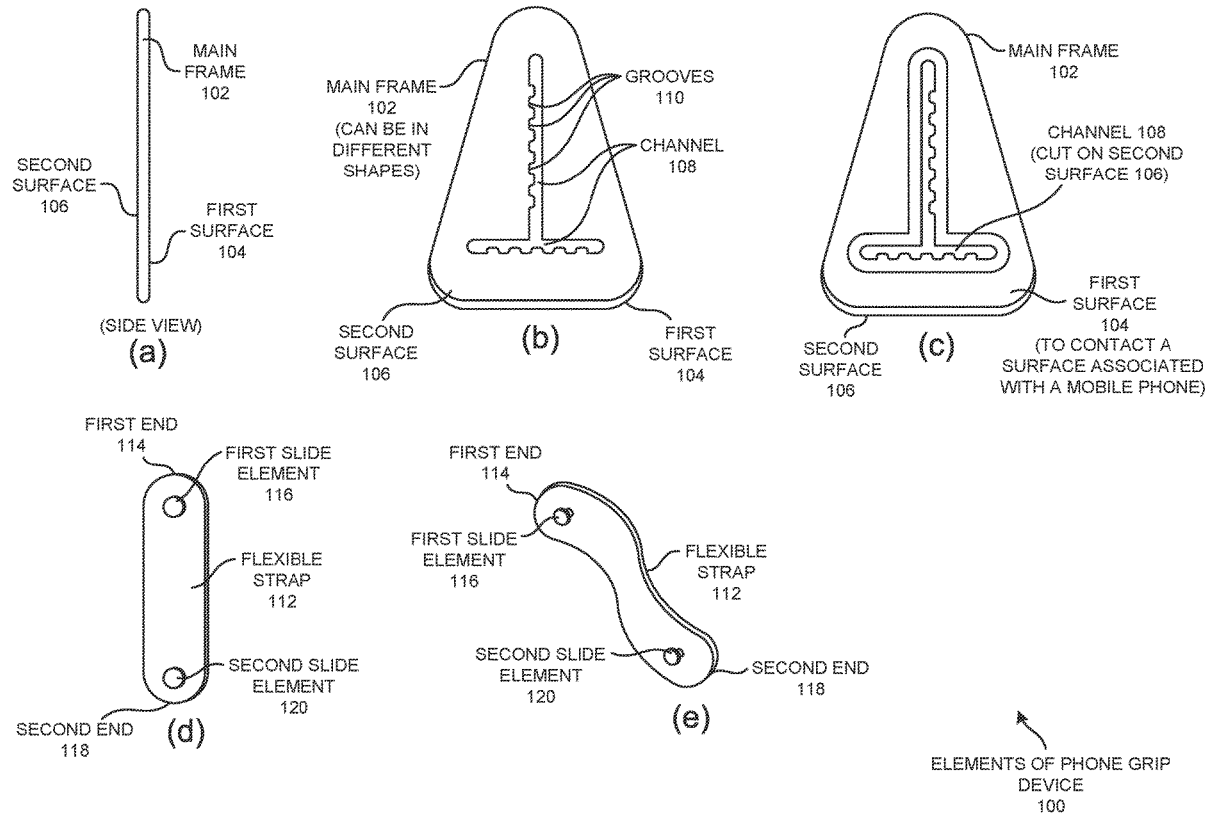
(22) Filed: **Aug. 19, 2022**

Related U.S. Application Data

(63) Continuation-in-part of application No. 16/691,636,
filed on Nov. 22, 2019, now Pat. No. 11,452,365.

(57) **ABSTRACT**

A method includes providing a main frame configured to be attached to a surface associated with a portable electronic device, and providing a grip element. The method also includes forming a grip device based on receiving one or more slide element(s) of the grip element through a channel of the main frame, and enabling portrait and landscape orientation based operations associated with the portable electronic device through the attachment of the formed grip device to the portable electronic device.



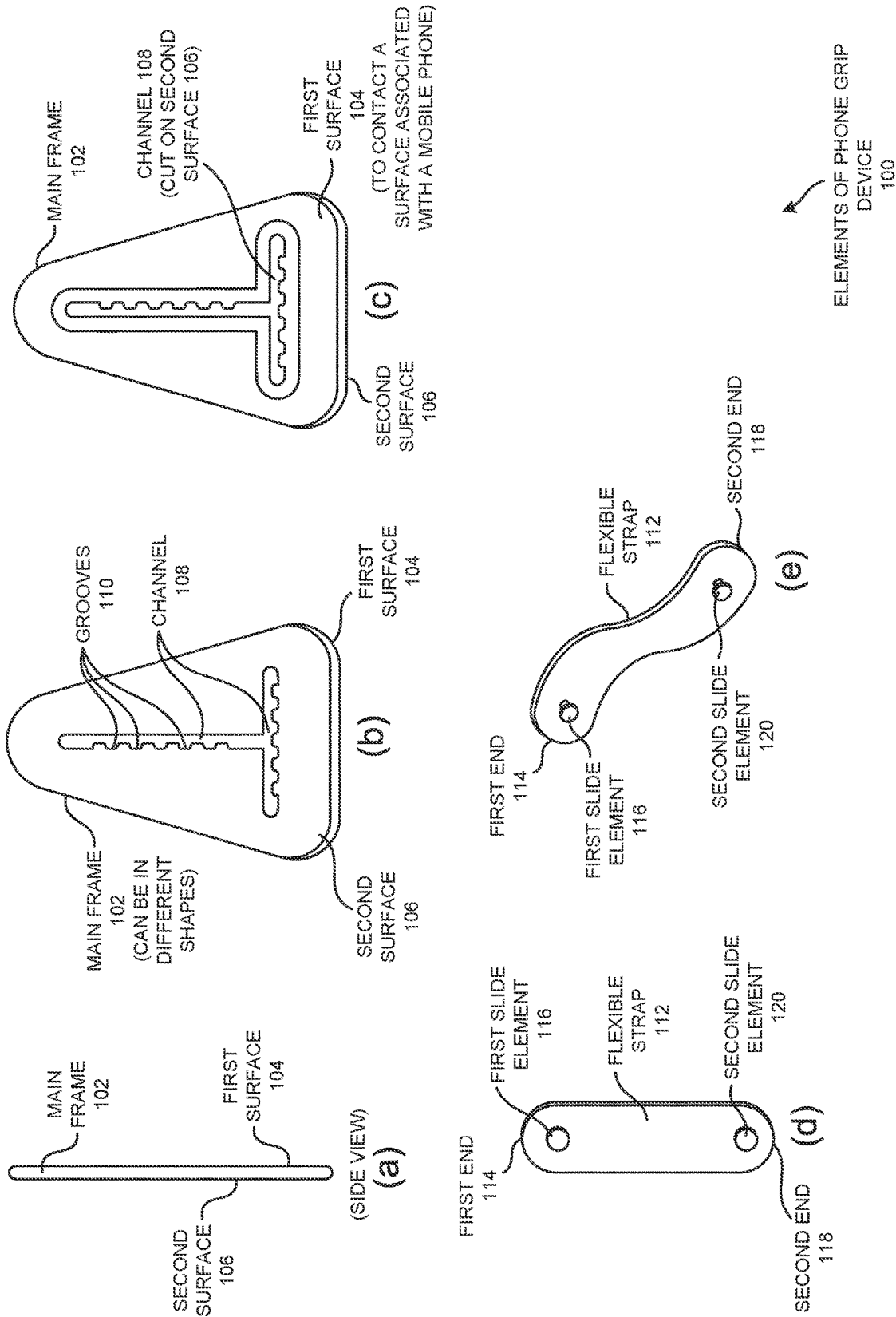


FIG. 1

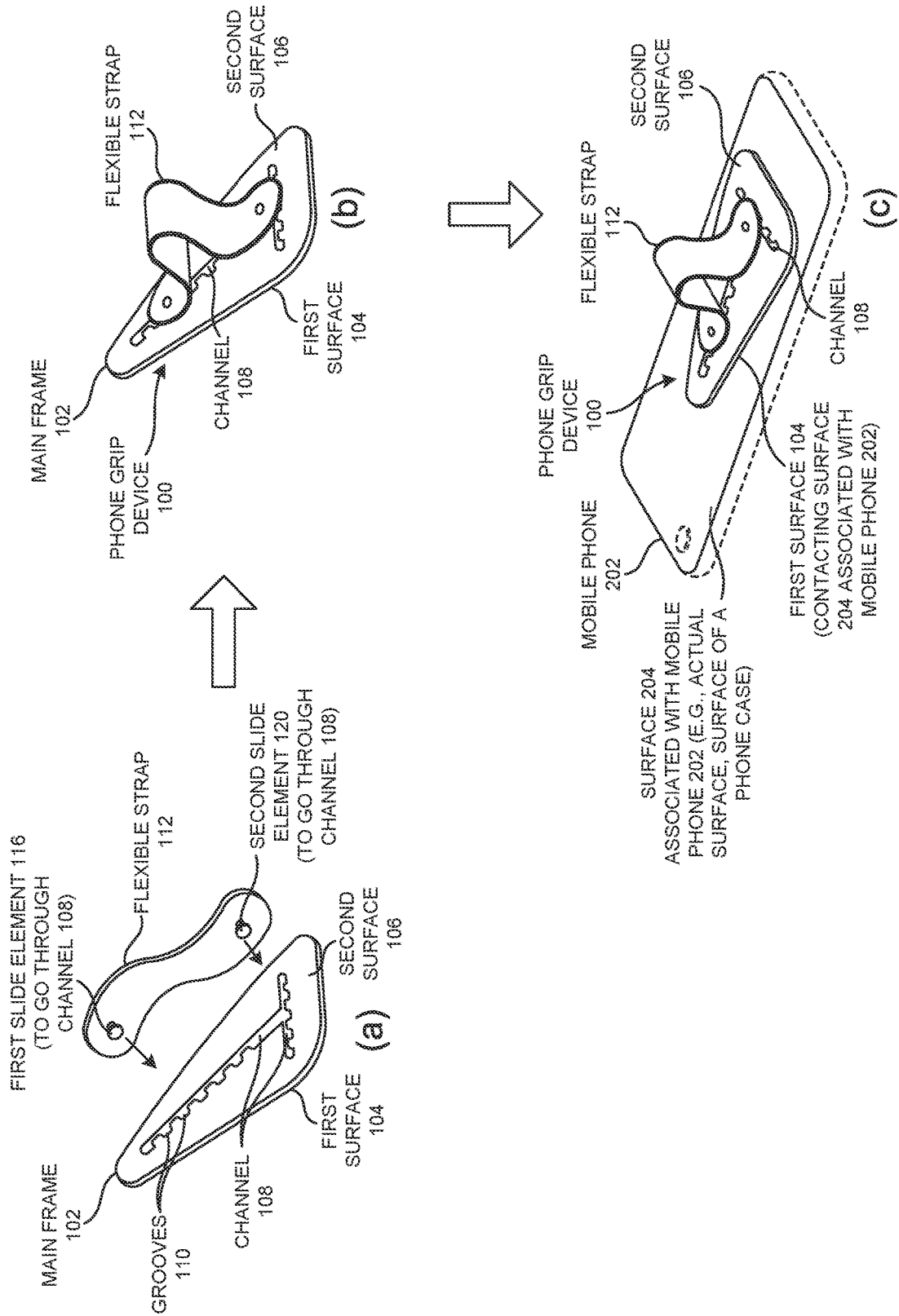


FIG. 2

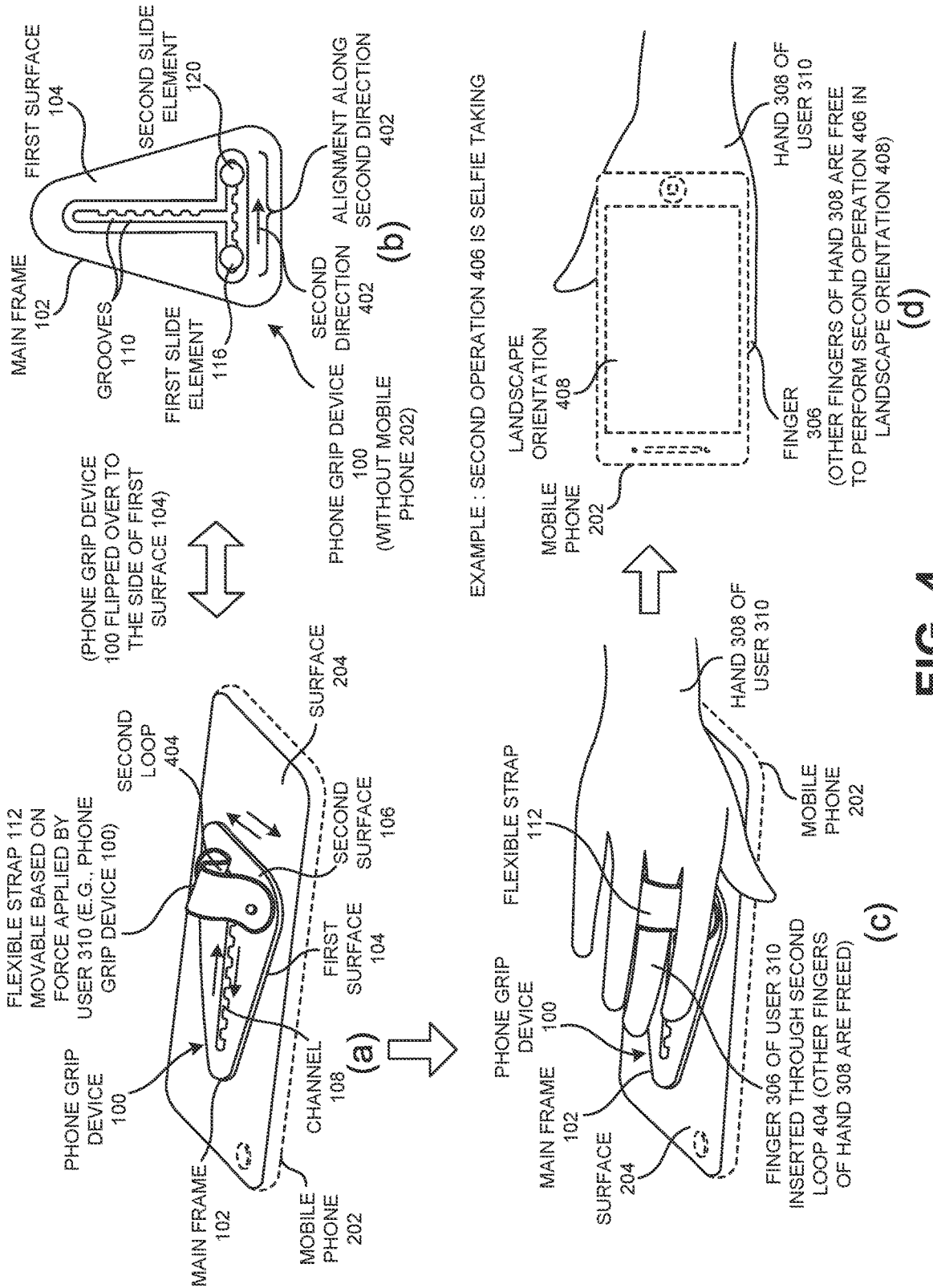


FIG. 4

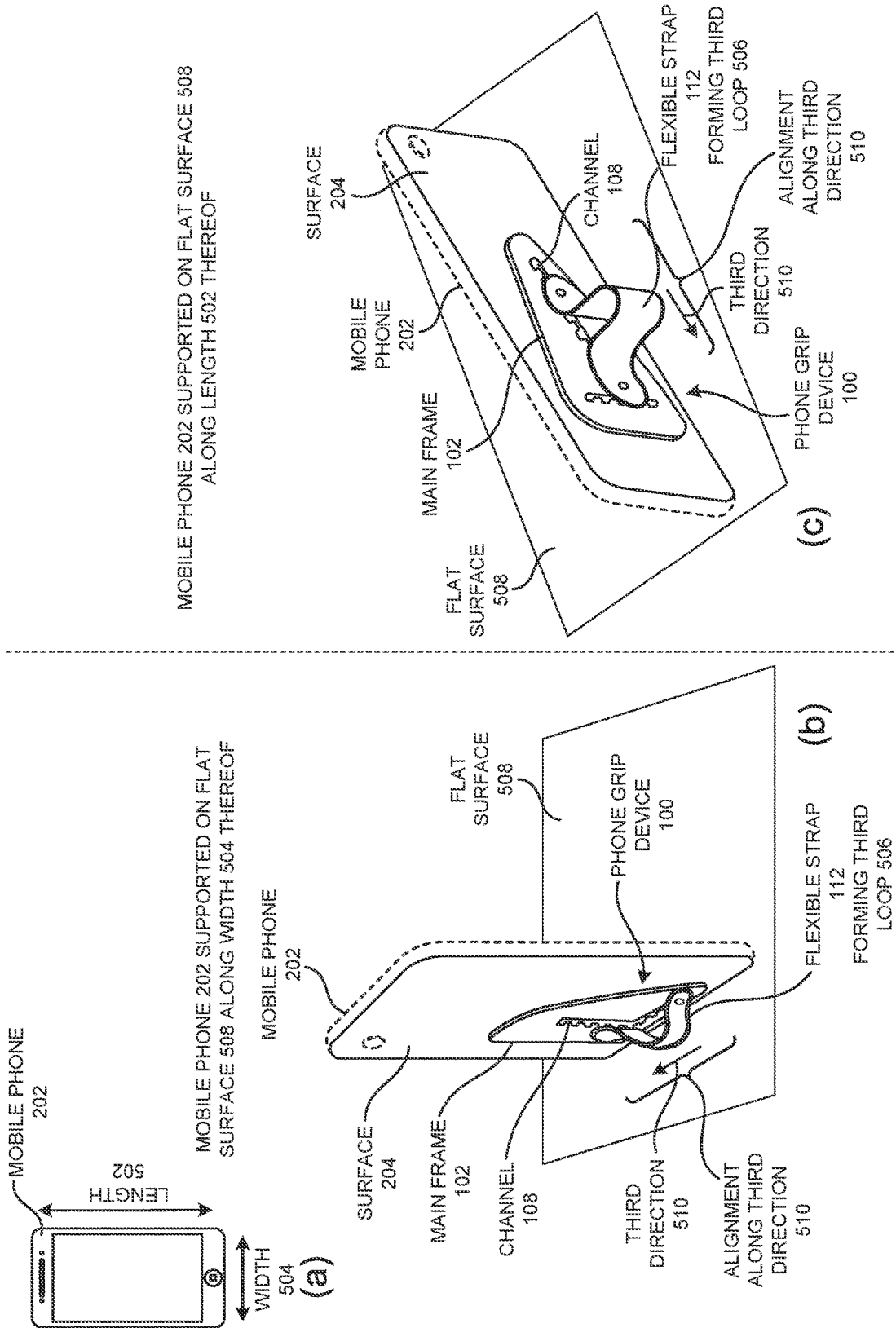
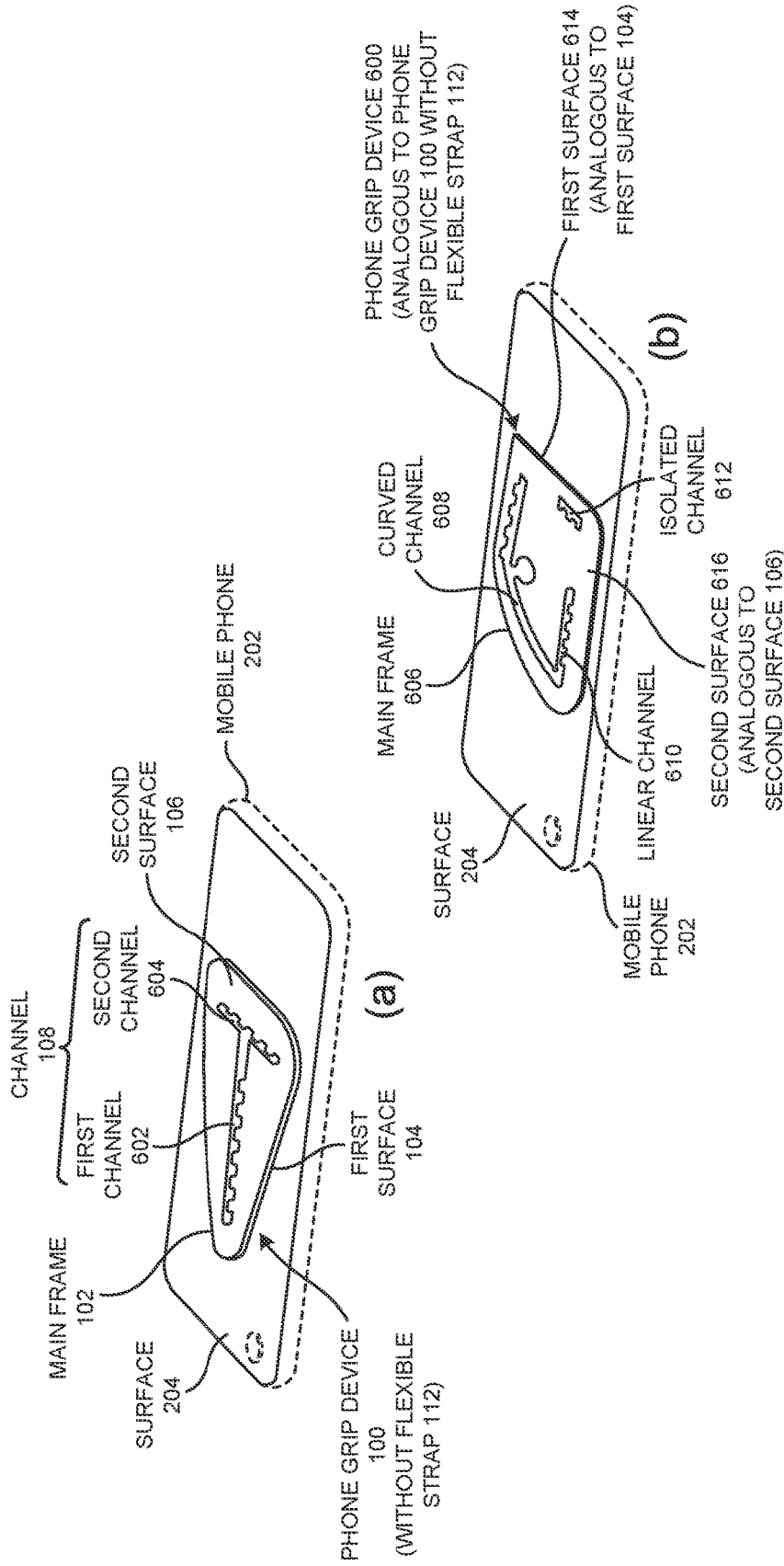


FIG. 5

EMBODIMENTS OF THE CHANNEL 108 OF PHONE GRIP DEVICE 100 / PHONE GRIP DEVICE 600



PHONE GRIP DEVICE 600 ALSO ENABLES ALIGNMENT OF FIRST SLIDE ELEMENT 116 AND SECOND SLIDE ELEMENT 120 ALONG FIRST DIRECTION 302, SECOND DIRECTION 402 AND THIRD DIRECTION 510

FIG. 6

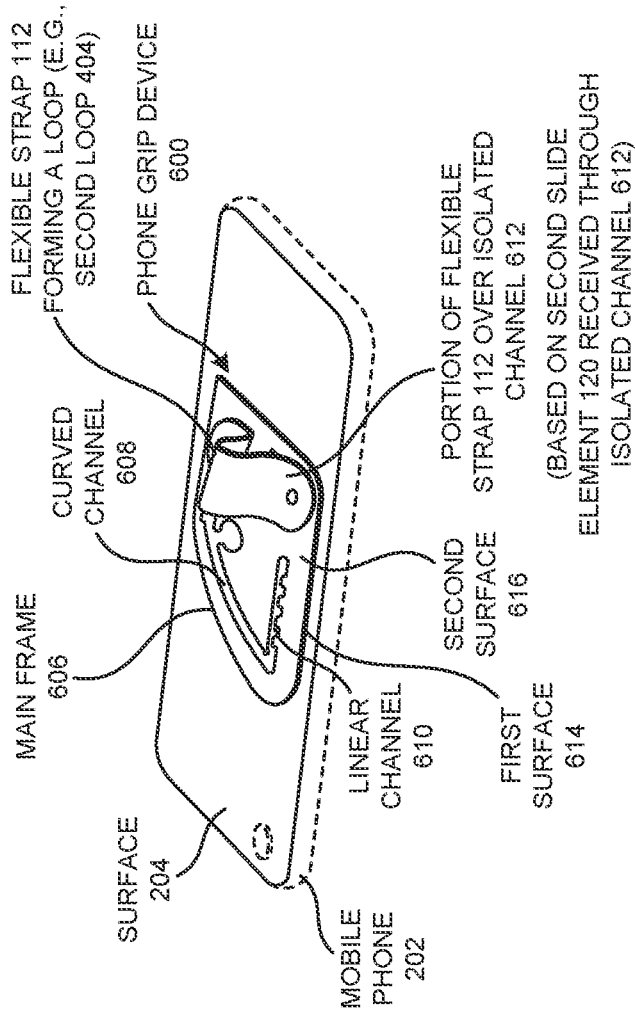


FIG. 7

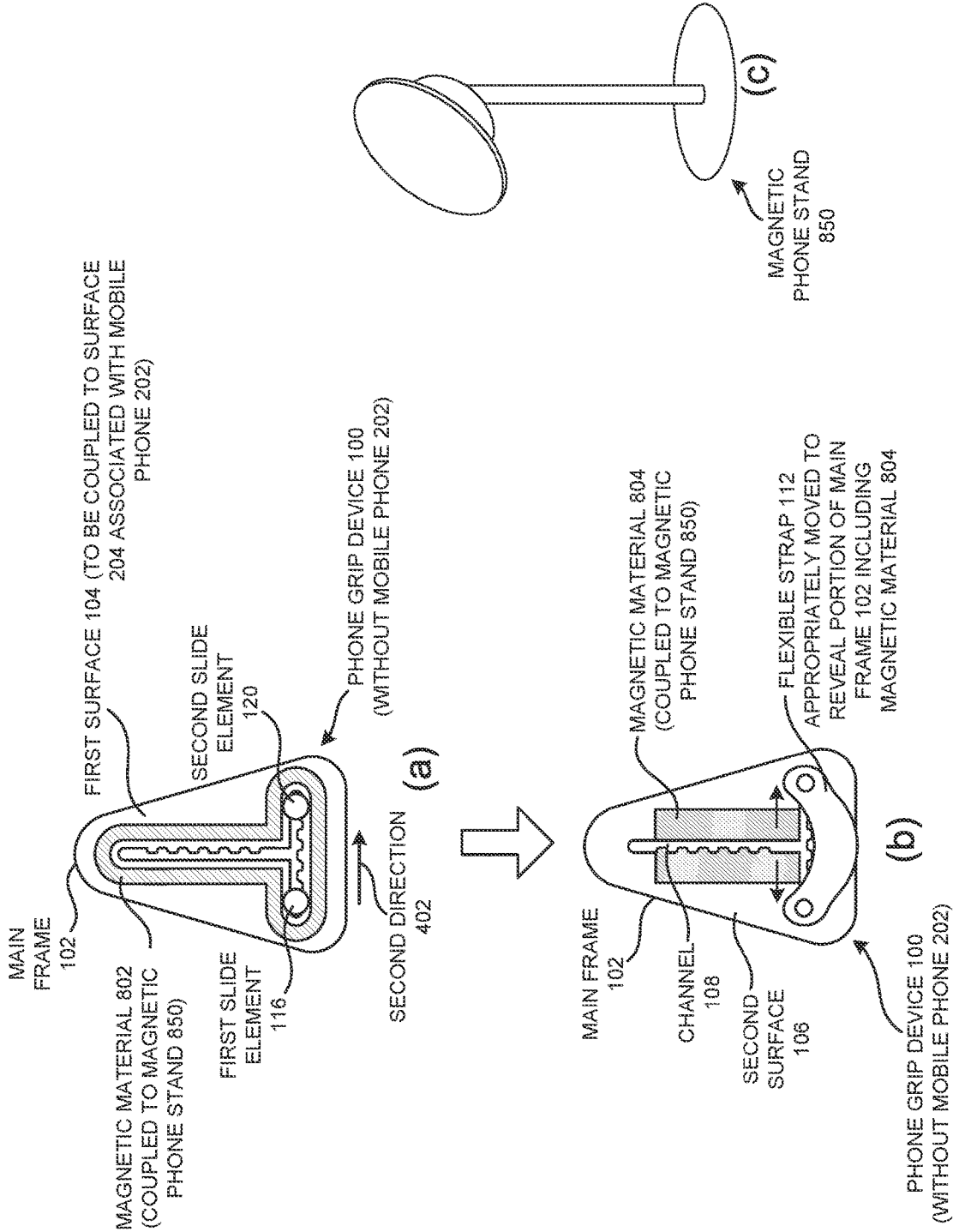


FIG. 8

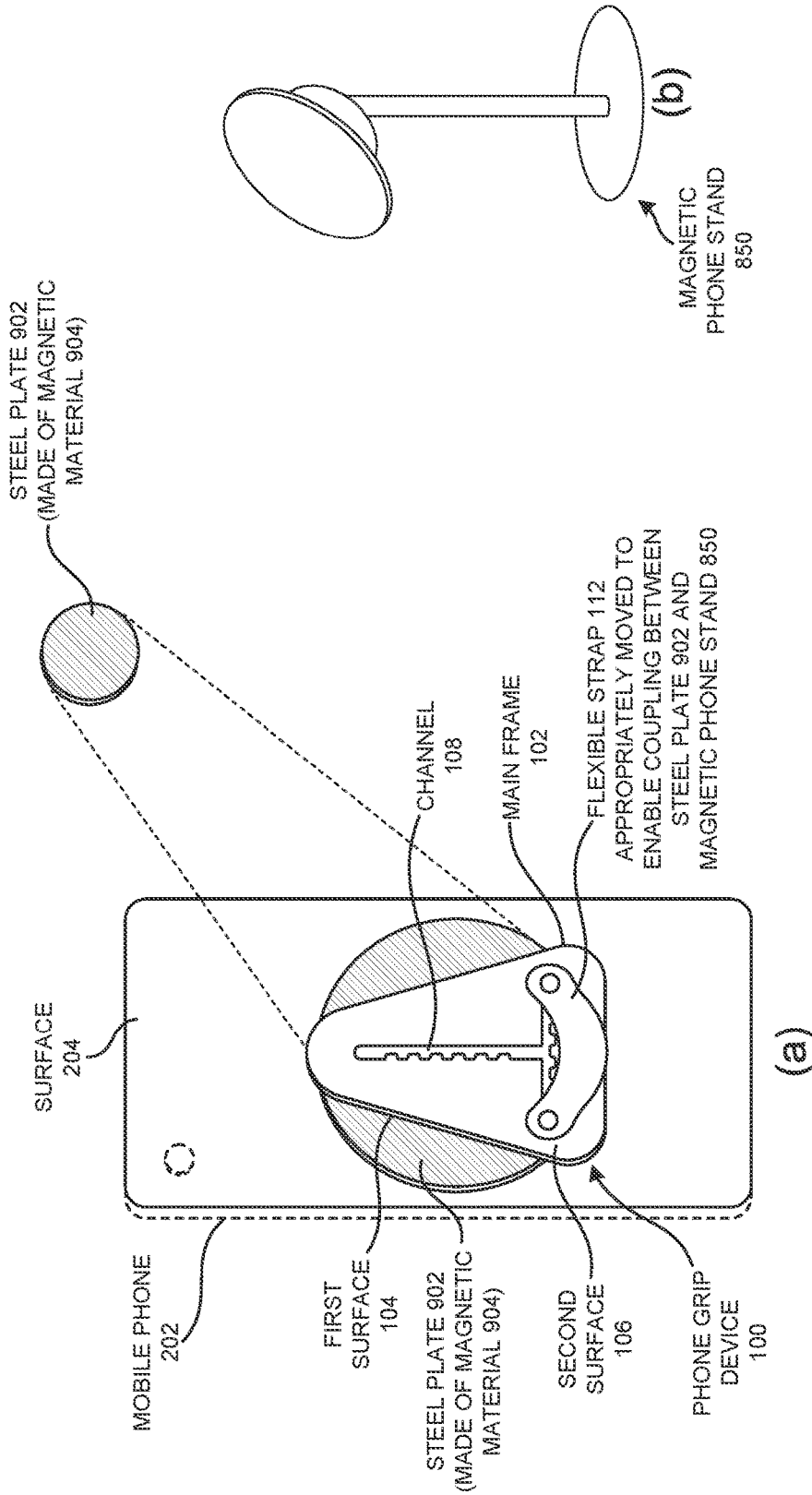


FIG. 9

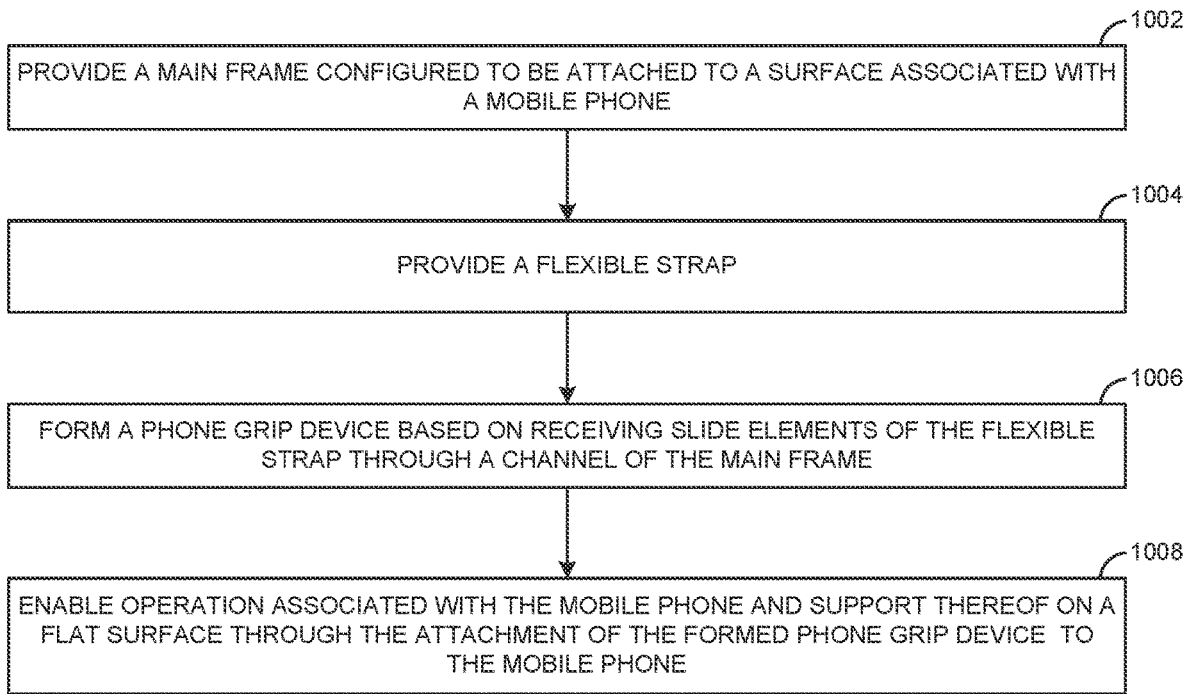


FIG. 10

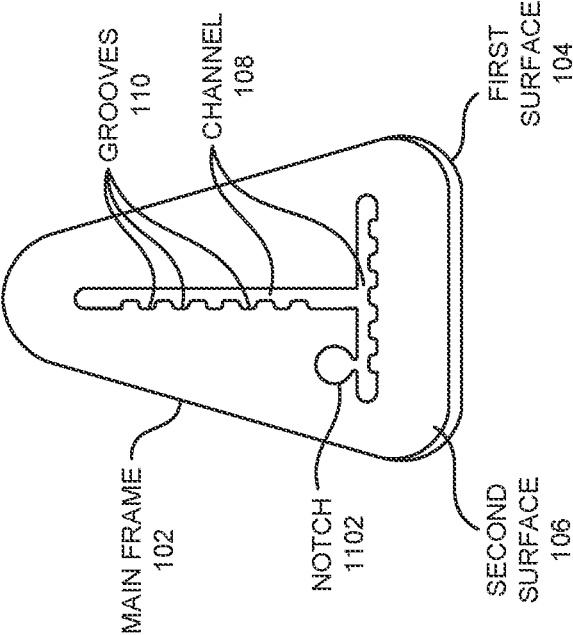


FIG. 11

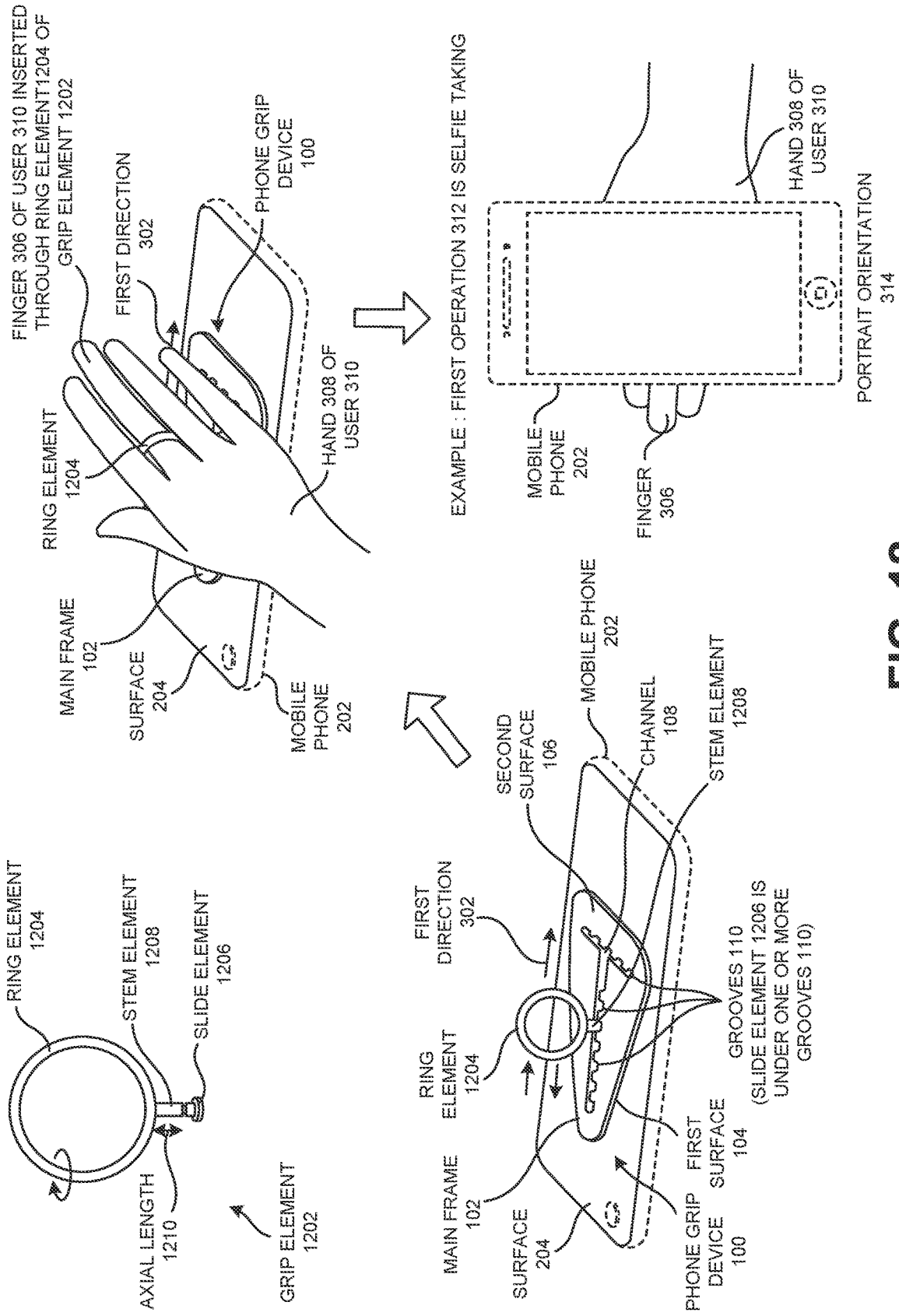


FIG. 12

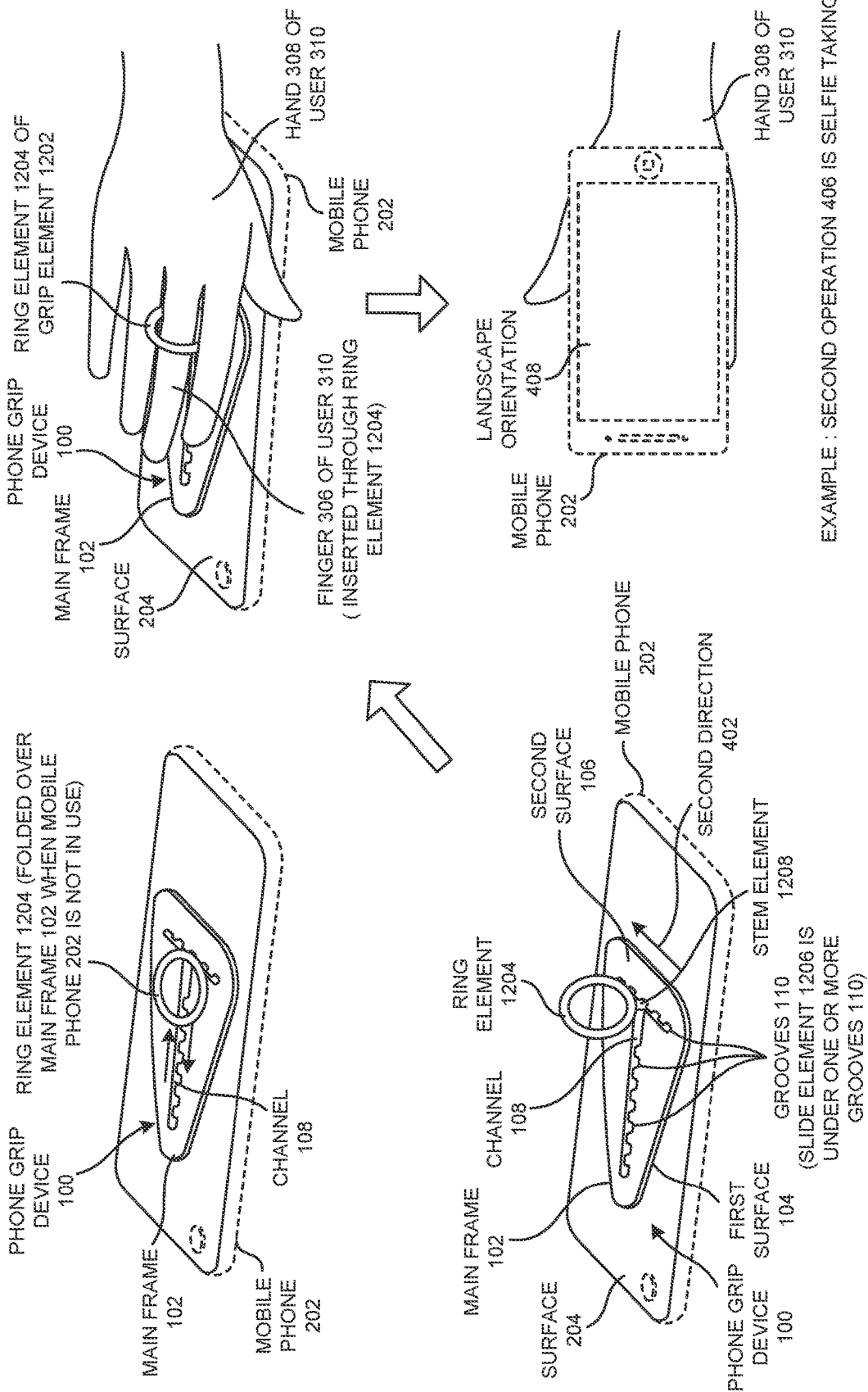


FIG. 13

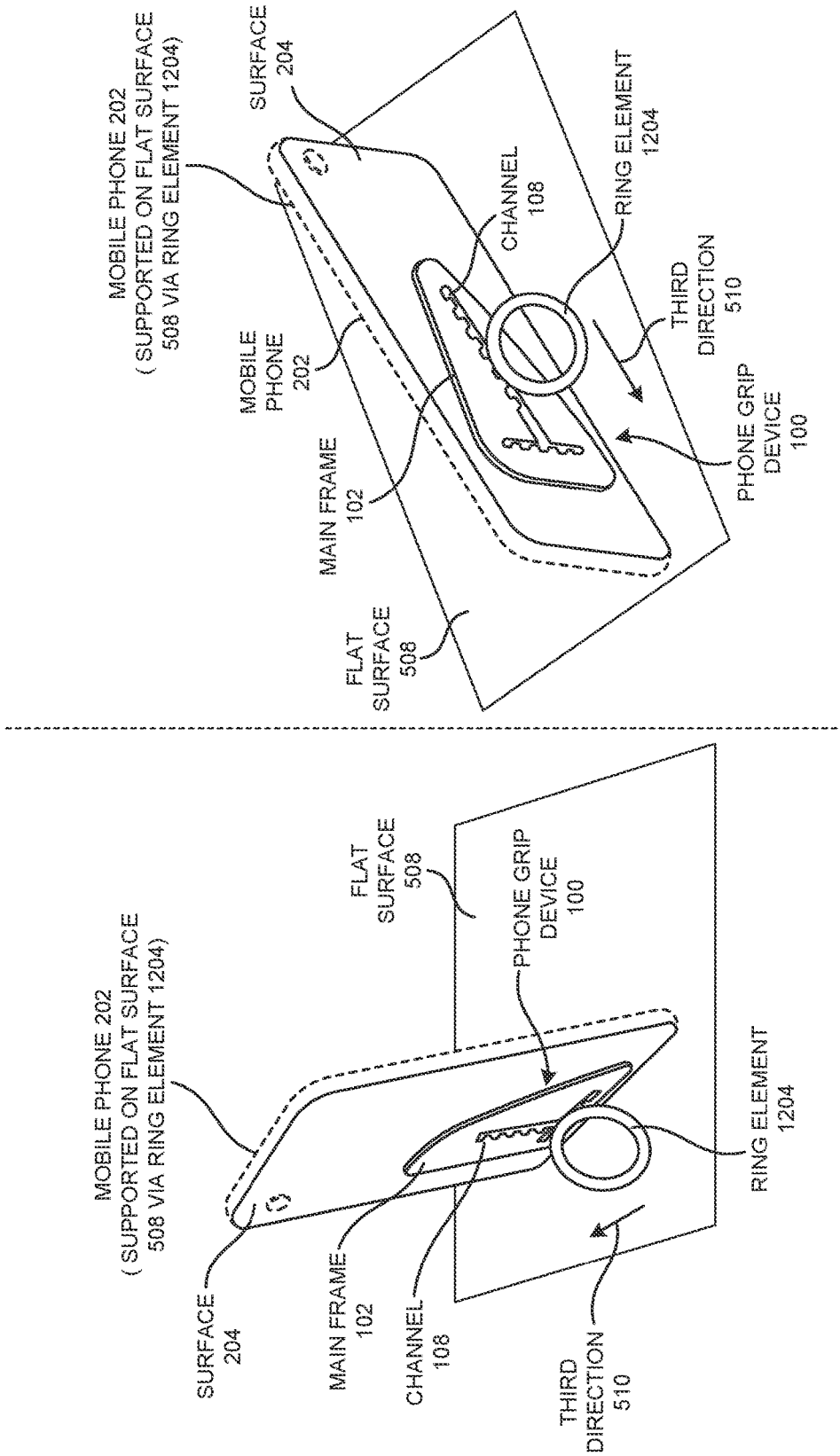


FIG. 14

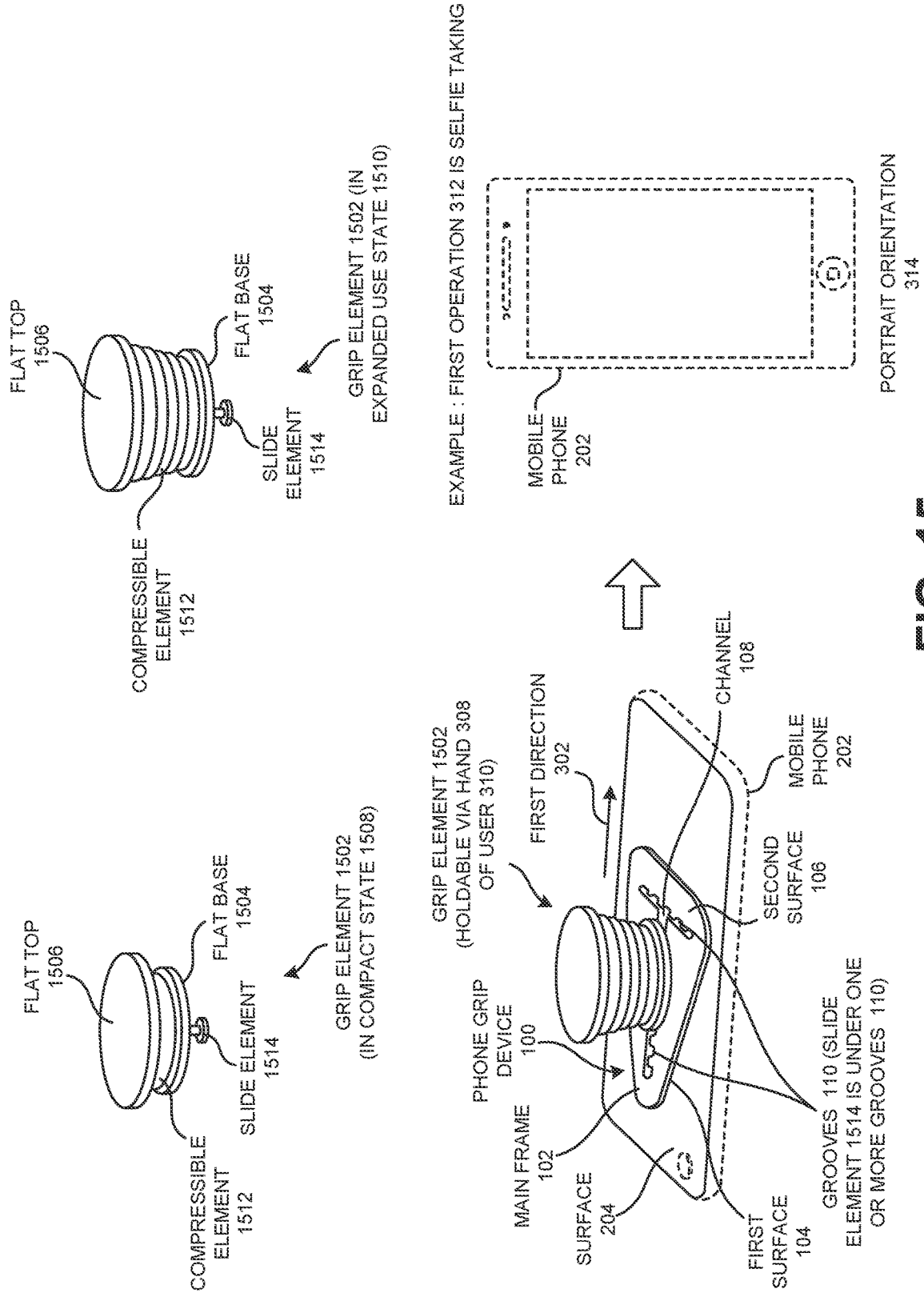


FIG. 15

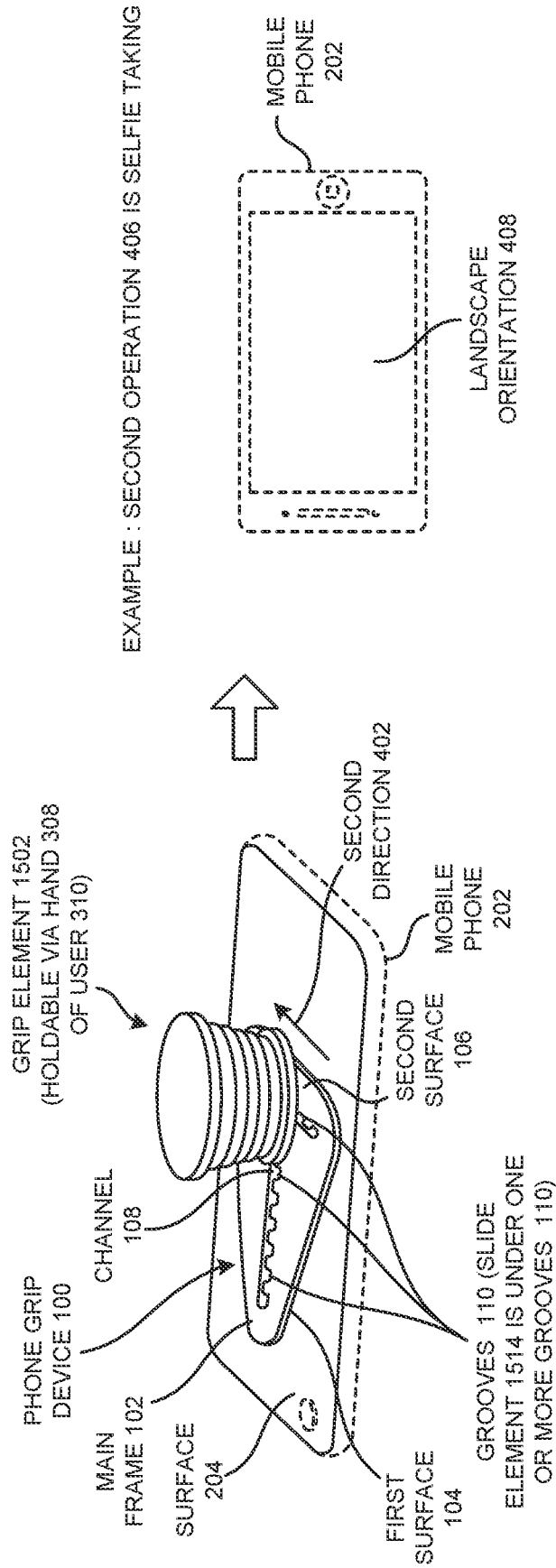


FIG. 16

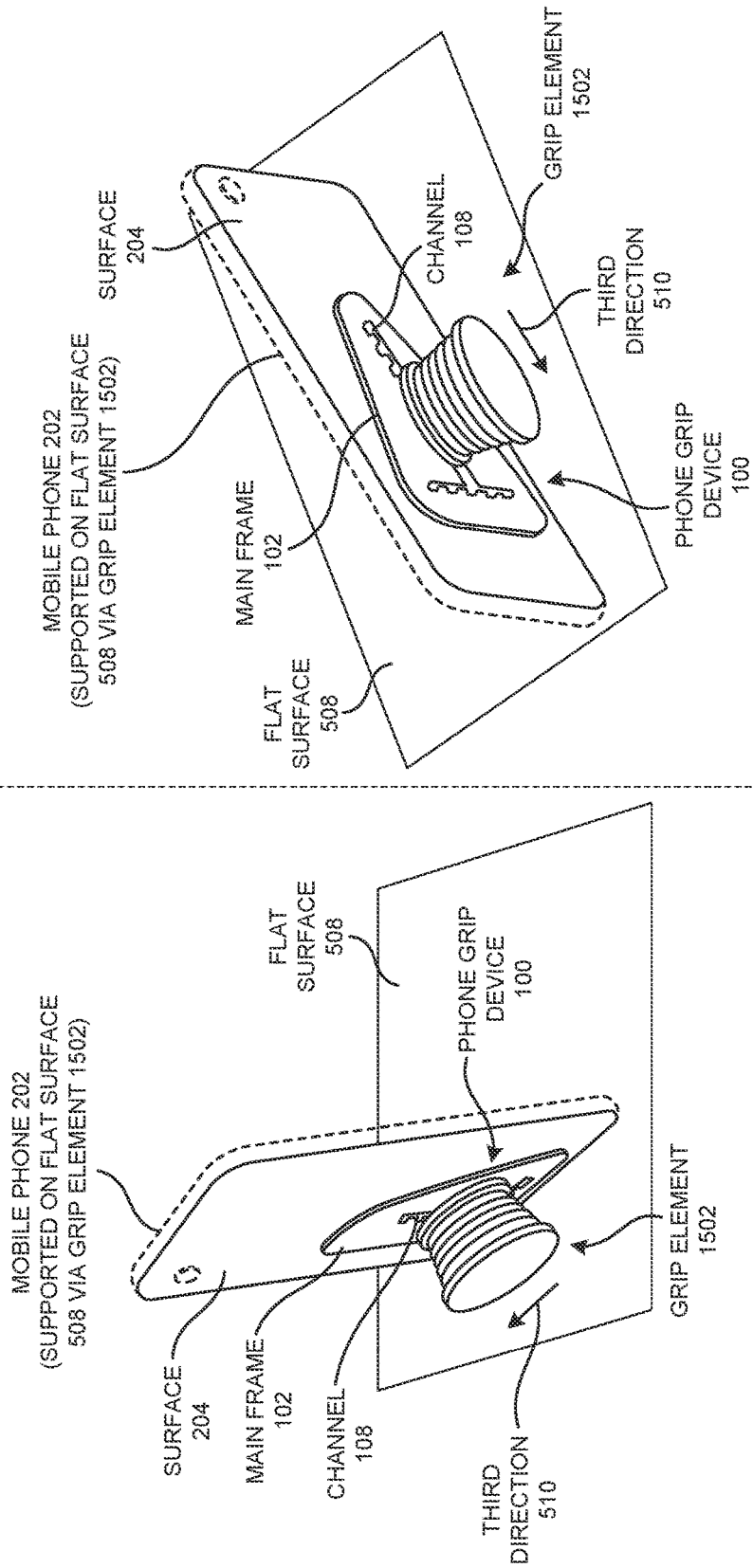


FIG. 17

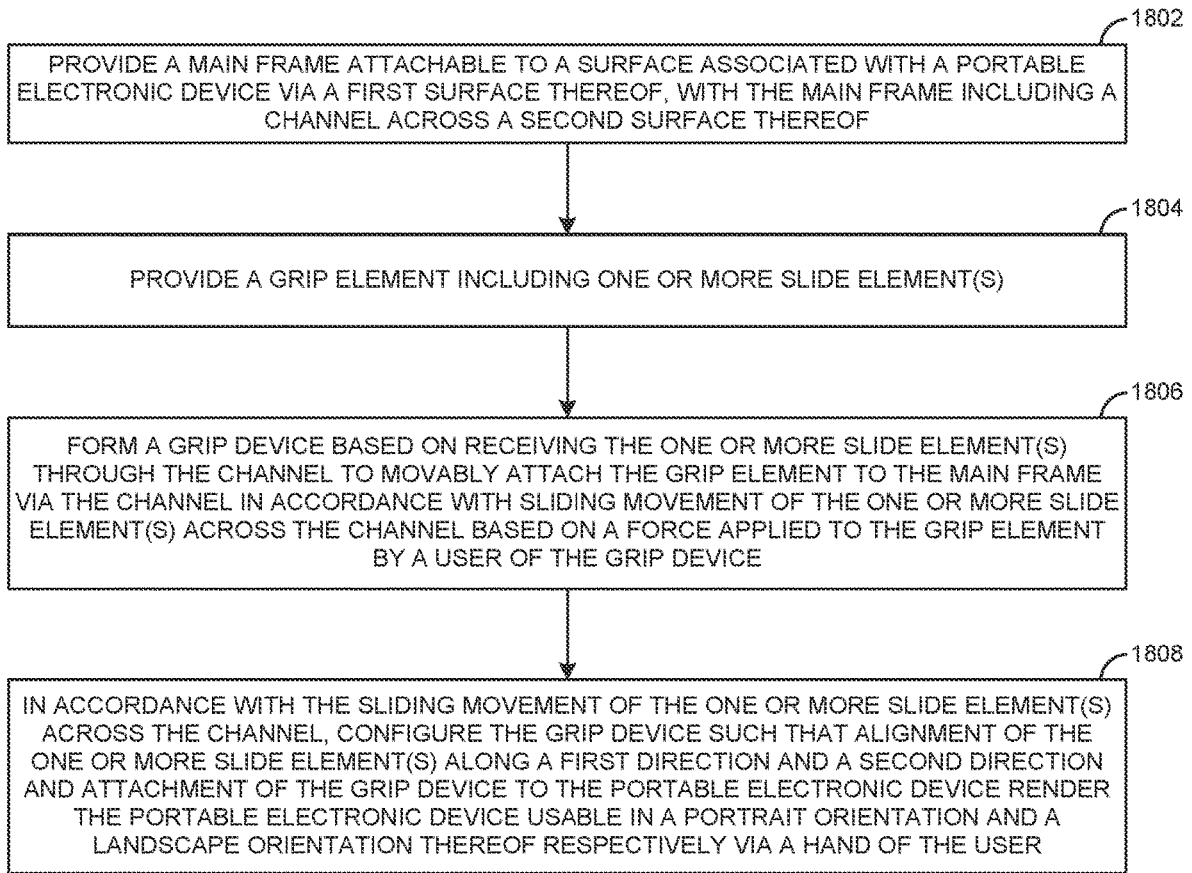


FIG. 18

**GRIP DEVICE TO ENABLE A NUMBER OF
OPERATIONS ASSOCIATED WITH A
PORTABLE ELECTRONIC DEVICE BASED
ON ATTACHMENT THERETO**

CLAIM OF PRIORITY

[0001] This application is a Continuation-in-Part Application of co-pending U.S. application Ser. No. 16/691,636 titled GRIP DEVICE TO ENABLE A NUMBER OF OPERATIONS ASSOCIATED WITH A PORTABLE ELECTRONIC DEVICE BASED ON ATTACHMENT THERETO filed on Nov. 22, 2019. The contents of the aforementioned application are incorporated by reference herein in entirety thereof.

FIELD OF TECHNOLOGY

[0002] This disclosure relates generally to portable electronic device accessories and, more particularly, to a method, a device and/or a system of a grip device to enable a number of operations associated with a portable electronic device based on attachment thereto.

BACKGROUND

[0003] A portable electronic device such as a mobile phone, a tablet and a smart media player may be held in one hand of a user based on compactness thereof. However, ease of use of features available through the portable electronic device may still depend on design thereof and dexterity of fingers of the one hand of the user. Carelessness (e.g., placing a mobile phone on a wet surface, dropping the mobile phone) on part of the user may lead to damage of the portable electronic device.

[0004] In the case of the portable electronic device being a mobile phone, the mobile phone may be equipped with a case for damage protection purposes. The case may include an anchoring mechanism based on a clip, a grip base and/or an elastic strap. In the case of the elastic strap being the anchoring mechanism, the user may insert a hand or one or more fingers of the hand thereof into the elastic strap to securely hold the mobile phone. However, the elastic strap may enable the user to hold the mobile phone solely in a particular orientation, thereby limiting convenience thereof.

SUMMARY

[0005] Disclosed are a method, a device and/or a system of a grip device to enable a number of operations associated with a portable electronic device based on attachment thereto.

[0006] In one aspect, a grip device for a portable electronic device includes a main frame configured to be attached to a surface associated with the portable electronic device via a first surface thereof, with the main frame including a channel across a second surface thereof, and a grip element including one or more slide element(s) receivable through the channel to movably attach the grip element to the main frame via the channel in accordance with sliding movement of the one or more slide element(s) across the channel based on a force applied to the grip element by a user of the grip device. In accordance with the sliding movement of the one or more slide element(s) across the channel, the one or more slide element(s) is aligned along a first direction whereby, in a first configuration of the alignment of the one or more slide element(s) along the first direction, attachment of the grip

device to the portable electronic device by way of the first surface of the grip device and the surface associated with the portable electronic device renders the portable electronic device usable in a portrait orientation thereof via a hand of the user.

[0007] Also, in accordance with the sliding movement of the one or more slide element(s) across the channel, the one or more slide element(s) is aligned along a second direction perpendicular to the first direction whereby, in a second configuration of the alignment of the one or more slide element(s) along the second direction, the attachment of the grip device to the portable electronic device by way of the first surface of the grip device and the surface associated with the portable electronic device renders the portable electronic device usable in a landscape orientation thereof via the hand of the user. The channel includes a linear first channel and a linear second channel, with the linear first channel and the linear second channel intersecting perpendicularly to one another in a T-shaped configuration. The one or more slide element(s) is configured to be received in and slide across the linear first channel and the linear second channel.

[0008] In another aspect, a method includes providing a main frame attachable to a surface associated with a portable electronic device via a first surface thereof, with the main frame including a channel across a second surface thereof, providing a grip element comprising one or more slide element(s), and forming a grip device based on receiving the one or more slide element(s) through the channel to movably attach the grip element to the main frame via the channel in accordance with sliding movement of the one or more slide element(s) across the channel based on a force applied to the grip element by a user of the grip device. The method also includes, in accordance with the sliding movement of the one or more slide element(s) across the channel, configuring the grip device such that the one or more slide element(s) is aligned along a first direction whereby, in a first configuration of the alignment of the one or more slide element(s) along the first direction, attachment of the grip device to the portable electronic device by way of the first surface of the grip device and the surface associated with the portable electronic device renders the portable electronic device usable in a portrait orientation thereof via a hand of the user.

[0009] Further, the method includes, in accordance with the sliding movement of the one or more slide element(s) across the channel, configuring the grip device such that the one or more slide element(s) is aligned along a second direction perpendicular to the first direction whereby, in a second configuration of the alignment of the one or more slide element(s) along the second direction, the attachment of the grip device to the portable electronic device by way of the first surface of the grip device and the surface associated with the portable electronic device renders the portable electronic device usable in a landscape orientation thereof via the hand of the user. The channel includes a linear first channel and a linear second channel, with the linear first channel and the linear second channel intersecting perpendicularly to one another in a T-shaped configuration. The one or more slide element(s) is configured to be received in and slide across the linear first channel and the linear second channel.

[0010] In yet another aspect, a system includes a portable electronic device and a grip device. The grip device includes a main frame configured to be attached to a surface associ-

ated with the portable electronic device via a first surface thereof, with the main frame including a channel across a second surface thereof, and a grip element including one or more slide element(s) receivable through the channel to movably attach the grip element to the main frame via the channel in accordance with sliding movement of the one or more slide element(s) across the channel based on a force applied to the grip element by a user of the grip device. In accordance with the sliding movement of the one or more slide element(s) across the channel, the one or more slide element(s) is aligned along a first direction whereby, in a first configuration of the alignment of the one or more slide element(s) along the first direction, attachment of the grip device to the portable electronic device by way of the first surface of the grip device and the surface associated with the portable electronic device renders the portable electronic device usable in a portrait orientation thereof via a hand of the user.

[0011] Also, in accordance with the sliding movement of the one or more slide element(s) across the channel, the one or more slide element(s) is aligned along a second direction perpendicular to the first direction whereby, in a second configuration of the alignment of the one or more slide element(s) along the second direction, the attachment of the grip device to the portable electronic device by way of the first surface of the grip device and the surface associated with the portable electronic device renders the portable electronic device usable in a landscape orientation thereof via the hand of the user. The channel includes a linear first channel and a linear second channel, with the linear first channel and the linear second channel intersecting perpendicularly to one another in a T-shaped configuration. The one or more slide element(s) is configured to be received in and slide across the linear first channel and the linear second channel.

[0012] The methods and systems disclosed herein may be implemented in any means for achieving various aspects. Other features will be apparent from the accompanying drawings and from the detailed description that follows.

BRIEF DESCRIPTION OF THE DRAWINGS

[0013] The embodiments of this invention are illustrated by way of example and not limitation in the figures of the accompanying drawings, in which like references indicate similar elements and in which:

[0014] FIG. 1 is a schematic view of a phone grip device configured to be attached to a surface associated with a mobile phone, according to one or more embodiments.

[0015] FIG. 2 is a schematic view of coupling of the phone grip device of FIG. 1 to a mobile phone, according to one or more embodiments.

[0016] FIG. 3 is a schematic view of alignment of a first slide element and a second slide element of a flexible strap of the phone grip device of FIGS. 1-2 along a first direction when attached to the mobile phone of FIG. 2, according to one or more embodiments.

[0017] FIG. 4 is a schematic view of alignment of the first slide element and the second slide element of the flexible strap of the phone grip device of FIGS. 1-2 along a second direction when attached to the mobile phone of FIG. 2, according to one or more embodiments.

[0018] FIG. 5 is a schematic view of support of the mobile phone of FIG. 2 on a flat surface by way of the phone grip device of FIGS. 1-4, according to one or more embodiments.

[0019] FIG. 6 is a schematic view of embodiments of a channel of a main frame of a phone grip device.

[0020] FIG. 7 is a schematic view of coupling of the phone grip device of FIG. 6 to the mobile phone of FIG. 2, according to one or more embodiments.

[0021] FIG. 8 is a schematic view of implementations of a phone grip device configured to enable coupling of the mobile phone of FIG. 2 to a magnetic phone stand even when the phone grip device is connected to the mobile phone, according to one or more embodiments.

[0022] FIG. 9 is another schematic view of an implementation of a steel plate configured to enable coupling of the mobile phone of FIG. 2 to the magnetic phone stand of FIG. 8 even when a phone grip device is connected to the mobile phone, according to one or more embodiments.

[0023] FIG. 10 is a process flow diagram detailing the operations involved in realizing a grip device, according to one or more embodiments.

[0024] FIG. 11 is a schematic view of another example implementation of the main frame of the phone grip device of FIG. 1.

[0025] FIG. 12 is a schematic view of a phone grip device with a single slide element configuration of a grip element thereof, according to one or more embodiments.

[0026] FIG. 13 is a schematic view of the phone grip device of FIG. 12 aligned along a second direction different from a first direction of FIG. 12 based on sliding of the grip element thereto, according to one or more embodiments.

[0027] FIG. 14 is a schematic view of the phone grip device of FIGS. 12-13 aligned along a third direction to enable support of a mobile phone on a flat surface, according to one or more embodiments.

[0028] FIG. 15 is a schematic view of a phone grip device with another single slide element configuration of a grip element thereof, according to one or more embodiments.

[0029] FIG. 16 is a schematic view of the phone grip device of FIG. 15 aligned along a second direction different from a first direction of FIG. 15 based on sliding of the grip element thereto, according to one or more embodiments.

[0030] FIG. 17 is a schematic view of the phone grip device of FIGS. 15-16 aligned along a third direction to enable support of a mobile phone on a flat surface, according to one or more embodiments.

[0031] FIG. 18 is a process flow diagram detailing the operations involved in realizing a grip device to enable a number of operations associated with a portable electronic device based on attachment thereto, according to one or more embodiments.

[0032] Other features of the present embodiments will be apparent from the accompanying drawings and from the detailed description that follows.

DETAILED DESCRIPTION

[0033] Example embodiments, as described below, may be used to provide a method, a device and/or a system of a grip device to enable a number of operations associated with a portable electronic device based on attachment thereto. It will be appreciated that the various embodiments discussed herein need not necessarily belong to the same group of exemplary embodiments, and may be grouped into various other embodiments not explicitly disclosed herein. In the following description, for purposes of explanation, numerous specific details are set forth in order to provide a thorough understanding of the various embodiments.

[0034] FIG. 1 shows a phone grip device 100 configured to be attached (to be discussed below) to a surface associated with a mobile phone, according to one or more embodiments. It should be noted that while exemplary embodiments have been discussed with reference to a mobile phone, concepts associated with phone grip device 100 may be applicable to a more generic portable electronic device, examples of which may include but are not limited to a mobile phone, a smart media player, and a tablet. Thus, phone grip device 100 may be interpreted as a device configured to be attached to (and, thereby, to grip onto) the aforementioned generic portable electronic device. The use of phone grip device 100 throughout the Specification is merely for the sake of illustrative and referential convenience.

[0035] As shown in the side view of phone grip device 100 in FIG. 1(a), in one or more embodiments, phone grip device 100 may include a main frame 102 configured to be attached to a surface associated with a mobile phone (again, to be discussed below) by way of a first surface 104 thereof. In one or more embodiments, main frame 102 may be a rigid, a semi-rigid or a flexible structure configured to serve as a backbone of phone grip device 100 and associated operations thereof. While main frame 102 may be configured to be preferentially attached to a center portion of the surface associated with the mobile phone, it should be noted that all possible positions of attachment are within the scope of the exemplary embodiments discussed herein. Further, all possible shapes (e.g., regular, irregular) of main frame 102 of phone grip device 100 are within the scope of the exemplary embodiments discussed herein.

[0036] In one or more embodiments, first surface 104 of main frame 102 may be coated with an adhesive material to attach (e.g., removably) with the surface associated with the mobile phone. In some other embodiments, the attachment of first surface 104 with the surface associated with the mobile phone may be through magnetic means or through means such as VELCRO®. All possible means of attachment of first surface 104 with the surface associated with the mobile phone and combinations thereof are within the scope of the exemplary embodiments discussed herein.

[0037] FIG. 1(b) shows a second surface 106 of main frame 102 across which a channel 108 may be formed, according to one or more embodiments. In one or more embodiments, channel 108 may be a track including grooves 110 (e.g., based on cuts) formed therewith configured to enable reception of slide elements (e.g., first slide element 116 and second slide element 120; refer to FIGS. 1(d) and 1(e)) therewithin to be locked/engaged at a specific position along channel 108. It should be noted that channel 108 may be formed all the way through a depth of main frame 102 into first surface 104, as shown in FIG. 1(c). However, implementations in which a depth of channel 108 is less than the depth of main frame 102 are also within the scope of the exemplary embodiments discussed herein.

[0038] In one or more embodiments, channel 108 may be linear or curved in shape. In some embodiments, channel 108 may be a combination of a linear and a curved channel. In one or more embodiments, channel 108 may be a set of channels contiguous and continuous with one another; in some other embodiments, channel 108 may include a set of channels, at least some of which are discontinuous with one another. Further, channel 108 may be irregular in shape. The

depiction of channel 108 across this Specification may, therefore, not be considered limiting.

[0039] FIGS. 1(d) and 1(e) show a flexible strap 112 (e.g., an elastic strap) that is configured to form part of phone grip device 100, according to one or more embodiments. It should be noted that flexible strap 112 forms part of a mere example implementation of phone grip device 100. Other implementations involving rings and more rigid elements are within the scope of the exemplary embodiments discussed herein. The “adjective” flexible is a relative term that may encompass other materials deemed to be semi-rigid or rigid. In one or more embodiments, flexible strap 112 may include a first slide element 116 and a second slide element 120 proximate a first end 114 and a second end 118 thereof respectively. As shown in FIGS. 1(d) and 1(e), first slide element 116 and second slide element 120 may be each be a protrusion (e.g., a hook element) from a surface of flexible strap 112 that ends in an element with a flat surface (e.g., disc-shaped); the aforementioned element along with the corresponding protrusion may enable each of first slide element 116 and second slide element 120 to be locked under a groove 110 of channel 108.

[0040] In one or more embodiments, the abovementioned locking may enable sliding movement of first slide element 116 and second slide element 120 along channel 108 relative to one another in accordance with a force applied by a user of phone grip device 100. In one or more embodiments, the aforementioned relative movement may encompass a first scenario involving a slide element (e.g., first slide element 116) being stationary and another slide element (e.g., second slide element 120) sliding along channel 108, a second scenario involving the another slide element (e.g., second slide element 120) being stationary and the slide element (e.g., first slide element 116) sliding along channel 108, and a third scenario involving both slide elements (e.g., first slide element 116 and second slide element 120) sliding along channel 108. The configuration(s) and structure(s) of first slide element 116 and second slide element 120 are not limited to those depicted in FIG. 1.

[0041] FIG. 2 shows coupling of phone grip device 100 to a surface 204 associated with a mobile phone 202, according to one or more embodiments. In one or more embodiments, surface 204 associated with mobile phone 202 may be an actual surface of mobile phone 202 or a surface of a case of mobile phone 202. For the aforementioned reason, a portion of mobile phone 202 barring surface 204 (which can also be the surface of the case of mobile phone 202) is shown in dotted lines in FIG. 2. As shown in FIG. 2(a), flexible strap 112 with first slide element 116 and second slide element 120 may be brought close to channel 108, following which the aforementioned first slide element 116 and second slide element 120 may be slid through channel 108 to be received therewithin, as shown in FIG. 2(b).

[0042] In one or more embodiments, first slide element 116 and second slide element 120 may then be free to move across channel 108 relative to one another based on the force applied by a user of phone grip device 100. In one or more embodiments, without the force, first slide element 116 and second slide element 120 may remain locked onto grooves 110 of phone grip device 100. An example scenario of the force applied by the user may involve the user (e.g., user 310 of FIG. 3) pulling (e.g., along a location proximate first end 114 or second end 118, along a location proximate a middle portion of flexible strap 112) flexible strap 112 along a

desired direction with a hand thereof to effect the relative sliding movement of first slide element **116** and second slide element **120**.

[0043] FIG. 2(c) shows phone grip device **100** attached to surface **204** associated with mobile phone **202**. Again, as discussed above, mobile phone **202** is a mere example device to which phone grip device **100** is directly or indirectly coupled. It should be noted that phone grip device **100** may be attached to any portable electronic device. In one or more embodiments, surface **204** may be a rear exterior surface of mobile phone **202**. In one or more other embodiments, surface **204** may be an exterior surface of a case of mobile phone **202**.

[0044] FIG. 3 shows alignment of first slide element **116** and second slide element **120** of phone grip device **100** along a first direction **302** when attached to mobile phone **202**, according to one or more embodiments. In one or more embodiments, the relative movement of first slide element **116** and second slide element **120** along channel **108** based on a force applied by a user **310** of phone grip device **100** may enable choice of a specific position of alignment of first slide element **116** and second slide element **120** along channel **108** with respect to user **310**. FIG. 3(a) shows movement of flexible strap **112** configured to effect the relative motion of first slide element **116** and second slide element **120** of phone grip device **100** by way of arrows.

[0045] In one or more embodiments, once first slide element **116** and second slide element **120** are aligned along first direction **302** along channel **108**, flexible strap **112** may form a first loop **304** (e.g., a partially open curve), as shown in FIGS. 3(a) and 3(c). It should be noted that FIG. 3(b) depicts phone grip device **100** (without mobile phone **202** for the sake of illustrative convenience) flipped over to the side of first surface **104**. FIG. 3(b) clearly shows first slide element **116** and second slide element **120** aligned along first direction **302** along channel **108**. It is obvious that first slide element **116** and second slide element **120** may be received through channel **108**, moved relative to one another and locked to a position corresponding to the alignment along first direction **302**.

[0046] It should be noted that the alignment along first direction **302** and first loop **304** may still be destroyed based on another force applied by a hand **308** of user **310**. However, in one or more embodiments, as shown clearly in FIGS. 3(a) and 3(c), the alignment along first direction **302** may enable flexible strap **112** to form first loop **304**. In one or more embodiments, user **310** may be able to insert a finger **306** of hand **308** thereof through first loop **304** and pick up/lift mobile phone **202** via phone grip device **100**. In one or more embodiments, one or more other finger(s) of hand **308** may be freed to perform operations such as gripping mobile phone **202**, taking a selfie through mobile phone **202** and so on. FIG. 3(d) shows one or more other finger(s) of hand **308** being free to perform a first operation **312** in a portrait orientation **314** of mobile phone **202**. FIG. 3 shows selfie taking through mobile phone **202** as an example first operation **312** through the one or more other finger(s) of hand **308** of user **310**. Portrait and landscape orientations are well known to one skilled in the art. Detailed discussed thereof is, therefore, skipped for the sake of convenience and brevity. In the example scenarios depicted in FIG. 3, first direction **302** may be along a length of mobile phone **202**.

[0047] FIG. 4 shows alignment of first slide element **116** and second slide element **120** of phone grip device **100** along

a second direction **402** when attached to mobile phone **202**, according to one or more embodiments. Again, in one or more embodiments, the relative movement of first slide element **116** and second slide element **120** along channel **108** based on a force applied by user **310** of phone grip device **100** may enable choice of another specific position of alignment of first slide element **116** and second slide element **120** along channel **108** with respect to user **310**. FIG. 4(a) shows movement of flexible strap **112** configured to effect the relative motion of first slide element **116** and second slide element **120** of phone grip device **100** by way of arrows.

[0048] In one or more embodiments, while FIG. 3 showed relative movement of first slide element **116** and second slide element **120** along the length of mobile phone **202**, FIG. 4 shows the capability of relative movement of first slide element **116** and second slide element **120** along a width of mobile phone **202** perpendicular to the length thereof, according to one or more embodiments. In one or more embodiments, once first slide element **116** and second slide element **120** are aligned along second direction **402** along channel **108**, flexible strap **112** may form a second loop **404** (e.g., another partially open curve), as shown in FIGS. 4(a) and 4(c). It should be noted that FIG. 4(b) depicts phone grip device **100** (without mobile phone **202** for the sake of illustrative convenience) flipped over to the side of first surface **104**. FIG. 4(b) clearly shows first slide element **116** and second slide element **120** aligned along second direction **402** along channel **108**.

[0049] Again, it should be noted that the alignment along second direction **402** and second loop **404** may still be destroyed based on another force applied by a hand **308** of user **310**. However, in one or more embodiments, as shown clearly in FIGS. 4(a) and 4(c), the alignment along second direction **402** may enable flexible strap **112** to form second loop **404**. In one or more embodiments, user **310** may be able to insert finger **306** thereof through second loop **404** and pick up/lift mobile phone **202** via phone grip device **100**. In one or more embodiments, now, one or more other finger(s) of hand **308** may be freed to perform operations such as gripping mobile phone **202**, taking a selfie through mobile phone **202** and so on. FIG. 4(d) shows one or more other finger(s) of hand **308** being free to perform a second operation **406** in a landscape orientation **408** of mobile phone **202**. FIG. 4 also shows selfie taking through mobile phone **202** as an example second operation **406** through the one or more other finger(s) of hand **308** of user **310**. Also, it is obvious that not only second operation **406** may be different from first operation **312**, but also second operation **406** and first operation **312** may involve operations other than selfie taking.

[0050] FIG. 5 shows support of mobile phone **202** on a flat surface **508**, according to one or more embodiments. To provide context, FIG. 5(a) shows a length **502** and a width **504** of mobile phone **202**. It is obvious that width **504** may be perpendicular to length **502**. FIG. 5(b) shows alignment of first slide element **116** and second slide element **120** of phone grip device **100** attached to mobile phone **202** along a third direction **510** along channel **108**, according to one or more embodiments. In one or more embodiments, the alignment along third direction **510** may enable flexible strap **112** to form a third loop **506**. In one or more embodiments, third

direction 510 may be capable of being second direction 402; similarly, third loop 506 may be capable of being second loop 404.

[0051] As shown in FIG. 5(b), in one or more embodiments, mobile phone 202 may be supported on flat surface 508 along width 504 thereof by third loop 506; the aforementioned support may be enabled by way of a portion of third loop 506 contacting flat surface 508. In one or more embodiments, the aforementioned support may entail mobile phone 202 being at least a bit inclined with respect to flat surface 508. In one or more embodiments, the angle of inclination may depend on a position of attachment of phone grip device 100 to mobile phone 202.

[0052] FIG. 5(c) also shows alignment of first slide element 116 and second slide element 120 of phone grip device 100 attached to mobile phone 202 along third direction 510 along channel 108, according to one or more embodiments. Again, in one or more embodiments, the alignment along third direction 510 may enable flexible strap 112 to form third loop 506. In one or more embodiments, third direction 510 may, again, be capable of being first direction 302; similarly, third loop 506 may be capable of being first loop 304. Again, FIG. 5(c) shows support of mobile phone 202 on flat surface 508 along length 502 thereof by third loop 506; again, the aforementioned support may be enabled by way of a portion of third loop 506 contacting flat surface 508. In one or more embodiments, again, the aforementioned support may entail mobile phone 202 being at least a bit inclined with respect to flat surface 508. In one or more embodiments, again, the angle of inclination may depend on a position of attachment of phone grip device 100 to mobile phone 202.

[0053] It should be noted that third loop 506 may be different from first loop 304 and second loop 404, and third direction 510 may be different from first direction 302 and second direction 402. Further, in some embodiments, phone grip device 100 itself may be slidable across mobile phone 202 to enable modification of the angle of inclination of mobile phone 202 with respect to flat surface 508. FIG. 6 shows embodiments of a channel (e.g., channel 108, curved channel 608, linear channel 610, isolated channel 612) of a main frame (e.g., main frame 102, main frame 606) of a phone grip device (e.g., phone grip device 100, phone grip device 600), according to one or more embodiments. FIG. 6(a) shows phone grip device 100 attached to mobile phone 202, with channel 108 including first channel 602 and second channel 604 perpendicular to and intersecting one another, according to one or more embodiments. In one or more embodiments, first channel 602 and second channel 604 may be contiguous and continuous with one another to form a closed circuit.

[0054] FIG. 6(b) shows a phone grip device 600 analogous to phone grip device 100, according to one or more embodiments. Concepts discussed herein with respect to phone grip device 600 are within the scope of the exemplary embodiments discussed herein. In one or more embodiments, phone grip device 600 may include a main frame 606 analogous to main frame 102, a first surface 614 analogous to first surface 104, and a second surface 616 analogous to second surface 106. In one or more embodiments, main frame 606 may have a linear channel 610 implemented thereon in conjunction with a curved channel 608. It should be noted that, in some embodiments, main frame 606 may solely include curved channel 608. Here, in one or more embodiments, linear

channel 610 may be continuous and contiguous with curved channel 608 to form another closed circuit.

[0055] In one or more embodiments, main frame 606 may also include an isolated channel 612 (e.g., linear in shape) non-continuous and non-contiguous with linear channel 610 and curved channel 608. The aforementioned channels may be configured to receive first slide element 116 and second slide element 120 therethrough to effect the relative sliding movement discussed above. FIG. 7 shows flexible strap 112 connected through one or more channel(s) (e.g., isolated channel 612, curved channel 608, linear channel 610) to form phone grip device 600 that may, in turn, be connected to surface 204 associated with mobile phone 202, according to one or more embodiments.

[0056] In a state of connection of phone grip device 600 with mobile phone 202 depicted in FIG. 7, a portion of flexible strap 112 may be over isolated channel 612 based on reception of second slide element 120 therethrough. First slide element 116 may be received through curved channel 608, thereby enabling alignment of first slide element 116 and second slide element 120 across radial directions with respect to curved channel 608. It is obvious that first slide element 116 may also be received through linear channel 610. Further, other configurations of the channels and/or other alignments (e.g., along first direction 302, second direction 402 and third direction 510) of the slide elements are within the scope of the exemplary embodiments discussed herein.

[0057] In one or more embodiments, phone grip device 100/600 may be coupled to a magnetic phone stand even in the state of connection thereof to mobile phone 202. FIG. 8 demonstrates enablement of the aforementioned capability, according to one or more embodiments. In one example implementation shown in FIG. 8(a), on first surface 104, at least a portion of main frame 102 around channel 108 may be made of a magnetic material 802 (e.g., steel). As first surface 104 is configured to be attached to surface 204 associated with mobile phone 202 (FIG. 8 does not show mobile phone 202 for the sake of illustrative convenience), phone grip device 100, and, thereby, mobile phone 202, may be coupled to a magnetic phone stand 850 (refer to FIG. 8(c)) even in the state of attachment thereof.

[0058] FIG. 8(b) illustrates another example implementation in which at least a portion of main frame 102 on second surface 106 is made of a magnetic material 804 (e.g., steel; same magnetic material as magnetic material 802 or a different magnetic material). In the state of attachment of phone grip device 100 to mobile phone 202, magnetic material 804 may enable direct coupling of phone grip device 100 and mobile phone 202 to magnetic phone stand 850. It should be noted that magnetic phone stand 850 may be generically referred to as magnetic portable electronic device stand. Just like mobile phone 202 is used herein instead of a portable electronic device for the sake of referential convenience, magnetic phone stand 850 is used herein instead of the magnetic portable electronic device stand.

[0059] FIG. 9 shows an implementation of a steel plate 902 on surface 204 associated with mobile phone 202 configured to enable coupling of mobile phone 202 to magnetic phone stand 850 even with phone grip device 100 attached to mobile phone 202, according to one or more embodiments. In one or more embodiments, steel plate 902 may be made of a magnetic material 904 (e.g., same as

magnetic material 802/804, different therefrom) and may be attached to surface 204. Although FIG. 9 shows attachment of steel plate 902 to an exterior of surface 204, it should be noted that steel plate 902 may also be coupled behind surface 204 to effect the coupling thereof to mobile phone 202.

[0060] Now, in one or more embodiments, phone grip device 100 may be coupled onto plate 902 or onto surface 204 to be coupled to mobile phone 202. In one or more embodiments, as shown in FIG. 9, appropriate sliding movement of flexible strap 112 and coupling of steel plate 902 to mobile phone 202 may enable the coupling (e.g., magnetic) of mobile phone 202 to magnetic phone stand 850 shown in FIG. 9(c) even with phone grip device 100 still attached to surface 204 associated with mobile phone 202.

[0061] FIG. 10 shows a process flow detailing the operations involved in realizing a grip device (e.g., phone grip device 100) configured to be attached to a portable electronic device (e.g., mobile phone 202), according to one or more embodiments. In one or more embodiments, operation 1002 may involve providing a main frame (e.g., main frame 102) configured to be attached to a surface (e.g., surface 204) associated with the portable electronic device. In one or more embodiments, the aforementioned attachment may be effected via a first surface (e.g., first surface 104) of the main frame. In one or more embodiments, the main frame may include a channel (e.g., channel 108) across a second surface (e.g., surface 106) thereof.

[0062] In one or more embodiments, operation 1004 may involve providing a flexible strap (e.g., flexible strap 112). In one or more embodiments, the flexible strap may include a first slide element (e.g., first slide element 116) and a second slide element (e.g., second slide element 120) proximate a first end (e.g., first end 114) and a second end (e.g., second end 118) thereof respectively. In one or more embodiments, operation 1006 may involve forming the grip device based on receiving the slide elements of the flexible strap through the channel of the main frame. In one or more embodiments, the aforementioned formation may enable movable attachment of the flexible strap to the main frame via the channel in accordance with sliding movement of the first slide element and the second slide element relative to one another across the channel based on a force applied to the flexible strap by a user of the grip device.

[0063] In one or more embodiments, operation 1008 may involve enabling operations associated with the portable electronic device and support thereof on a flat surface (e.g., flat surface 508) through the attachment of the formed grip device to the portable electronic device. In accordance therewith and the sliding movement of the first slide element and the second slide element of the flexible strap relative to one another across the channel, in one or more embodiments, the grip device may enable the first slide element and the second slide element to both be aligned along a first direction (e.g., first direction 302) whereby insertion of a finger (e.g., finger 306) of a user (e.g., user 310) of the grip device through a first loop (e.g., first loop 304) formed by the flexible strap following the alignment along the first direction enables a first operation (e.g., first operation 312) associated with the portable electronic device in a portrait orientation (e.g., portrait orientation 314) thereof through one or more other finger(s) of the user when the grip device is attached to the surface associated with the portable electronic device.

[0064] In one or more embodiments, the grip device may also enable the first slide element and the second slide element to both be aligned along a second direction (e.g., second direction 402) perpendicular to the first direction whereby insertion of the finger of the user through a second loop (e.g., second loop 404) formed by the flexible strap following the alignment along the second direction enables a second operation (e.g., second operation 406) associated with the portable electronic device in a landscape orientation (e.g., landscape orientation 408) thereof through the one or more other finger(s) of the user when the grip device is attached to the surface associated with the portable electronic device.

[0065] In one or more embodiments, based on alignment of both the first slide element and the second slide element along a third direction (e.g., third direction 510) also capable of being the first direction and the second direction and the attachment of the grip device to the surface associated with the portable electronic device, the grip device may further enable the portable electronic device to be supported on the flat surface by a third loop (e.g., third loop 506) also capable of being the corresponding first loop and the corresponding second loop by way of a portion of the third loop contacting the flat surface.

[0066] FIG. 11 shows another example implementation of main frame 102 of phone grip device 100. The aforementioned example implementation is within the scope of the exemplary embodiments discussed herein. Here, channel 108 may have a separate section (e.g., a notch 1102) implemented therein where first slide element 116 and second slide element 120 of flexible strap 112 may be removed one after the other to enable replacement of flexible strap 112 without having to remove main frame 102 from surface 204 associated with mobile phone 202 in the state of connection thereof. It is obvious from FIG. 11 that even when main frame 102 is attached to surface 204 associated with mobile phone 202, first slide element 116 and second slide element 120 may be slid across channel 108 until notch 1102 is reached; the appropriate size of notch 1102 may enable removal of flexible strap 112 based on removing first slide element 116 and second slide element 120 through notch 1102. All reasonable variations are within the scope of the exemplary embodiments discussed herein.

[0067] Thus, exemplary embodiments may provide for a grip device configured to be coupled to a portable electronic device to enable a number of operations associated therewith. In one or more embodiments, the grip device (e.g., phone grip device 100) may enable efficiency, simultaneity and/or stability of the operations associated with the portable electronic device. While exemplary embodiments have been discussed with regard to flexible strap 112 with two slide elements (first slide element 116 at first end 114 and second slide element 120 at second end 118) enabling the sliding of flexible strap 112 across channel 108 to realize alignment of phone grip device 100 (e.g., or slide elements thereof discussed above and below) along first direction 302, second direction 402 and third direction 510 when attached to mobile phone 202 to facilitate portrait orientation 314, landscape orientation 408 and support on flat surface 508 respectively of mobile phone 202, it should be noted that other configurations of grip elements including one or more slide element(s) analogous to flexible strap 112 are within the scope of the exemplary embodiments discussed herein.

[0068] FIG. 12 shows phone grip device 100 with a single slide element configuration of a grip element 1202 thereof, according to one or more embodiments. In one or more embodiments, grip element 1202 (analogous to flexible strap 112) may include a ring element 1204 through which finger 306 of hand 308 of user 310 passes when phone grip device 100 is attached to mobile phone 202 and grip element 1202 is locked under one or more grooves 110 of channel 108 formed on main frame 102, analogous to the discussion pertinent to flexible strap 112 and slide elements thereof, and mobile phone 202 is in use (e.g., to perform first operation 312, to perform second operation 406). FIG. 12 shows grip element 1202 as including a slide element 1206 coupled to ring element 1204 by way of a stem element 1208, according to one or more embodiments. In some embodiments, ring element 1204 may be rotatable around an axial length 1210 of stem element 1208.

[0069] FIG. 12 shows locking of grip element 1202 onto channel 108 by way of slide element 1206, according to one or more embodiments. As discussed above, in one or more embodiments, slide element 1206 may be a protrusion from stem element 1208 that ends in an element with a flat surface (e.g., disc-shaped). In one or more embodiments, the aforementioned element along with the protrusion may enable slide element 1206 to be locked under one or more grooves 110 of channel 108. Again, other configurations of slide element 1206 are within the scope of the exemplary embodiments discussed herein. FIG. 12 also shows phone grip device 100 aligned along first direction 302 based on sliding of grip element 1202 thereto, according to one or more embodiments; as discussed above, the alignment along first direction 302 may enable user 310 of mobile phone 202 to perform first operation 312 in portrait orientation 314 thereof.

[0070] FIG. 13 shows phone grip device 100 aligned along second direction 402 based on sliding of grip element 1202 thereto, according to one or more embodiments; again, as discussed above, the alignment along second direction 402 may enable user 310 of mobile phone 202 to perform second operation 406 in landscape orientation 408 thereof. In some embodiments, user 310 may also have the capability to rotate ring element 1204 to a convenient position for inserting finger 306 thereof. FIG. 14 shows phone grip device 100 aligned along third direction 510 to enable support of mobile phone 202 on flat surface 508 by way of a portion of ring element 1204 contacting said flat surface 508. Further, FIG. 13 shows the foldability of ring element 1204 over main frame 102 in a state of attachment of grip element 1202 to channel 108 when user 310 does not hold mobile phone 202, according to one or more embodiments. In one or more embodiments, the foldability of ring element 1204 may lend compactness of the configuration of phone grip device 100.

[0071] FIG. 15 shows phone grip device 100 with another single slide element configuration of a grip element 1502 thereof, according to one or more embodiments. In one or more embodiments, grip element 1502 (analogous to flexible strap 112 and grip element 1202) may include a flat base 1504 (e.g., a circular or a rectangular plate; FIG. 15 shows a circular plate for the sake of convenience) and a flat top 1506 (e.g., circular, rectangular) that is larger in dimensional size than flat base 1504. In one or more embodiments, from a compact state 1508 of grip element 1502, grip element 1502 may be expanded into a use state 1510 based on connecting grip element 1502 to channel 108 and pulling the

flat top 1506 away from flat base 1504. In one or more embodiments, flat top 1506 may be coupled to flat base 1504 directly by way of a compressible accordion-like element (e.g., compressible element 1512) that expands into use state 1510 when flat top 1506 is pulled away from flat base 1504 and reverts to compact state 1508 when flat top 1506 is pushed into flat base 1504.

[0072] In one or more embodiments, grip element 1502 may include a slide element 1514 coupled to flat base 1504, according to one or more embodiments. FIG. 15 shows locking of grip element 1502 onto channel 108 by way of slide element 1514, according to one or more embodiments. Again, as discussed above, in one or more embodiments, slide element 1514 may be a protrusion from flat base 1504 that ends in an element with a flat surface (e.g., disc-shaped). In one or more embodiments, the aforementioned element along with the protrusion may enable slide element 1514 to be locked under one or more grooves 110 of channel 108. Again, other configurations of slide element 1514 are within the scope of the exemplary embodiments discussed herein. FIG. 15 also shows phone grip device 100 aligned along first direction 302 based on sliding of grip element 1502 thereto, according to one or more embodiments; as discussed above, the alignment along first direction 302 may enable user 310 of mobile phone 202 to perform first operation 312 in portrait orientation 314 thereof.

[0073] FIG. 16 shows phone grip device 100 aligned along second direction 402 based on sliding of grip element 1502 thereto, according to one or more embodiments, again, as discussed above, the alignment along second direction 402 may enable user 310 of mobile phone 202 to perform second operation 406 in landscape orientation 408 thereof. FIG. 17 shows phone grip device 100 aligned along third direction 510 to enable support of mobile phone 202 on flat surface 508 by way of a portion of grip element 1502 contacting said flat surface 508. In the aforementioned configuration of grip element 1502, FIGS. 15-17 indicate that user 310 uses hand 308 (e.g., fingers of hand 308) thereof around grip element 1502 to hold grip element 1502 and slide grip element 1502 along channel 108, according to one or more embodiments.

[0074] Thus, exemplary embodiments involving channel 108 (e.g., T-shaped channel, a linear and/or a curved channel) may encompass grip elements (e.g., flexible strap 112, grip element 1202, grip element 1502) with one, two or even more than two slide elements. Discussions relevant to FIGS. 1-11 may also be relevant to FIGS. 12-17 and vice versa. All reasonable variations are within the scope of the exemplary embodiments discussed herein.

[0075] FIG. 18 shows a process flow diagram detailing the operations involved in realizing a grip device (e.g., phone grip device 100) to enable a number of operations associated with a portable electronic device (e.g., mobile phone 202) based on attachment thereto, according to one or more embodiments. In one or more embodiments, operation 1802 may involve providing a main frame (e.g., main frame 102) attachable to a surface (e.g., surface 204) associated with the portable electronic device via a first surface (e.g., first surface 104) thereof, with the main frame including a channel (e.g., channel 108) across a second surface (e.g., second surface 106) thereof. In one or more embodiments, operation 1804 may involve providing a grip element (e.g., flexible strap 112, grip element 1202, grip element 1502) including one or more slide element(s) (e.g., first slide element 116, second slide element 120, slide element 1206,

slide element **1514**). In one or more embodiments, operation **1806** may involve forming the grip device based on receiving the one or more slide element(s) through the channel to movably attach the grip element to the main frame via the channel in accordance with sliding movement of the one or more slide element(s) across the channel based on a force applied to the grip element by a user (e.g., user **310**) of the grip device.

[0076] In one or more embodiments, operation **1808** may then involve, in accordance with the sliding movement of the one or more slide element(s) across the channel, configuring the grip device such that the one or more slide element(s) is aligned along a first direction and a second direction whereby attachment of the grip device to the portable electronic device by way of the first surface of the grip device and the surface associated with the portable electronic device renders the portable electronic device usable in a portrait orientation and a landscape orientation thereof respectively via a hand of the user. In one or more embodiments, the channel may include a linear first channel and a linear second channel, with the linear first channel and the linear second channel intersecting perpendicularly to one another in a T-shaped configuration. In one or more embodiments, the one or more slide element(s) may be configured to be received in and slide across the linear first channel and the linear second channel.

[0077] Although the present embodiments have been described with reference to specific example embodiments, it will be evident that various modifications and changes may be made to these embodiments without departing from the broader spirit and scope of the various embodiments. Accordingly, the Specification and the drawings are to be regarded in an illustrative rather than a restrictive sense.

What is claimed is:

1. A grip device for a portable electronic device comprising:

a main frame configured to be attached to a surface associated with the portable electronic device via a first surface thereof, the main frame comprising a channel across a second surface thereof; and

a grip element comprising at least one slide element receivable through the channel to movably attach the grip element to the main frame via the channel in accordance with sliding movement of the at least one slide element across the channel based on a force applied to the grip element by a user of the grip device, wherein, in accordance with the sliding movement of the at least one slide element across the channel:

the at least one slide element is aligned along a first direction whereby, in a first configuration of the alignment of the at least one slide element along the first direction:

attachment of the grip device to the portable electronic device by way of the first surface of the grip device and the surface associated with the portable electronic device renders the portable electronic device usable in a portrait orientation thereof via a hand of the user, and

the at least one slide element is aligned along a second direction perpendicular to the first direction whereby, in a second configuration of the alignment of the at least one slide element along the second direction: the attachment of the grip device to the portable electronic device by way of the first surface of the

grip device and the surface associated with the portable electronic device renders the portable electronic device usable in a landscape orientation thereof via the hand of the user,

wherein the channel comprises a linear first channel and a linear second channel, the linear first channel and the linear second channel intersecting perpendicularly to one another in a T-shaped configuration, and

wherein the at least one slide element is configured to be received in and slide across the linear first channel and the linear second channel.

2. The grip device of claim 1, wherein, further, in accordance with the sliding movement of the at least one slide element across the channel:

alignment of the at least one slide element along a third direction and the attachment of the grip device to the surface associated with the portable electronic device render the portable electronic device supportable on a flat surface by a portion of the grip element contacting the flat surface.

3. The grip device of claim 1, wherein the main frame is attachable to one of: a surface of the portable electronic device and a surface of a case of the portable electronic device as the surface associated with the portable electronic device.

4. The grip device of claim 2, wherein the third direction is one of: the first direction and the second direction.

5. The grip device of claim 2, wherein, based on the alignment of the at least one slide element along the third direction and the attachment of the grip device to the surface associated with the portable electronic device, the portable electronic device is positionable on the flat surface both along a length and a width thereof.

6. The grip device of claim 1, wherein at least one of: at least a portion of the main frame is made of a magnetic material, and

the main frame is couplable to a plate made of the magnetic material such that, based on an appropriate sliding movement of the grip element and a coupling of the plate to the portable electronic device, the portable electronic device is couplable to a magnetic phone stand via the plate even with the grip device still attached to the surface associated with the portable electronic device.

7. The grip device of claim 1, wherein:

the main frame includes a notch implemented in the channel to remove the grip element by way of the at least one slide element therethrough without separating the main frame from the portable electronic device when the grip device is attached to the portable electronic device.

8. The grip device of claim 2, wherein the channel of the main frame comprises a plurality of grooves therealong to hold the at least one slide element of the grip element to a specific position along the channel including the first configuration, the second configuration, and the alignment of the at least one slide element along the third direction.

9. A method comprising:

providing a main frame attachable to a surface associated with a portable electronic device via a first surface thereof, the main frame comprising a channel across a second surface thereof;

- providing a grip element comprising at least one slide element;
- forming a grip device based on receiving the at least one slide element through the channel to movably attach the grip element to the main frame via the channel in accordance with sliding movement of the at least one slide element across the channel based on a force applied to the grip element by a user of the grip device; and
- in accordance with the sliding movement of the at least one slide element across the channel, configuring the grip device such that:
- the at least one slide element is aligned along a first direction whereby, in a first configuration of the alignment of the at least one slide element along the first direction:
 - attachment of the grip device to the portable electronic device by way of the first surface of the grip device and the surface associated with the portable electronic device renders the portable electronic device usable in a portrait orientation thereof via a hand of the user, and
 - the at least one slide element is aligned along a second direction perpendicular to the first direction whereby, in a second configuration of the alignment of the at least one slide element along the second direction:
 - the attachment of the grip device to the portable electronic device by way of the first surface of the grip device and the surface associated with the portable electronic device renders the portable electronic device usable in a landscape orientation thereof via the hand of the user,
- wherein the channel comprises a linear first channel and a linear second channel, the linear first channel and the linear second channel intersecting perpendicularly to one another in a T-shaped configuration, and
- wherein the at least one slide element is configured to be received in and slide across the linear first channel and the linear second channel.
- 10.** The method of claim **9**, further comprising, in accordance with the sliding movement of the at least one slide element across the channel:
- alignment of the at least one slide element along a third direction and the attachment of the grip device to the surface associated with the portable electronic device rendering the portable electronic device supportable on a flat surface by a portion of the grip element contacting the flat surface.
- 11.** The method of claim **9**, comprising the main frame being attachable to one of: a surface of the portable electronic device and a surface of a case of the portable electronic device as the surface associated with the portable electronic device.
- 12.** The method of claim **10**, comprising at least one of: the third direction being one of: the first direction and the second direction; and
- based on the alignment of the at least one slide element along the third direction and the attachment of the grip device to the surface associated with the portable electronic device, the portable electronic device being positionable on the flat surface both along a length and a width thereof.
- 13.** The method of claim **9**, comprising at least one of: at least a portion of the main frame being made of a magnetic material; and
- the main frame being couplable to a plate made of the magnetic material such that, based on an appropriate sliding movement of the grip element and a coupling of the plate to the portable electronic device, the portable electronic device is couplable to a magnetic phone stand via the plate even with the grip device still attached to the surface associated with the portable electronic device.
- 14.** The method of claim **10**, further comprising at least one of:
- the main frame including a notch implemented in the channel to remove the grip element by way of the at least one slide element therethrough without separating the main frame from the portable electronic device when the grip device is attached to the portable electronic device; and
 - the channel of the main frame comprising a plurality of grooves therealong to hold the at least one slide element of the grip element to a specific position along the channel including the first configuration, the second configuration, and the alignment of the at least one slide element along the third direction.
- 15.** A system comprising:
- a portable electronic device; and
 - a grip device comprising:
 - a main frame configured to be attached to a surface associated with the portable electronic device via a first surface thereof, the main frame comprising a channel across a second surface thereof; and
 - a grip element comprising at least one slide element receivable through the channel to movably attach the grip element to the main frame via the channel in accordance with sliding movement of the at least one slide element across the channel based on a force applied to the grip element by a user of the grip device,
- wherein, in accordance with the sliding movement of the at least one slide element across the channel:
- the at least one slide element is aligned along a first direction whereby, in a first configuration of the alignment of the at least one slide element along the first direction:
 - attachment of the grip device to the portable electronic device by way of the first surface of the grip device and the surface associated with the portable electronic device renders the portable electronic device usable in a portrait orientation thereof via a hand of the user, and
 - the at least one slide element is aligned along a second direction perpendicular to the first direction whereby, in a second configuration of the alignment of the at least one slide element along the second direction:
 - the attachment of the grip device to the portable electronic device by way of the first surface of the grip device and the surface associated with the portable electronic device renders the portable electronic device usable in a landscape orientation thereof via the hand of the user,

wherein the channel comprises a linear first channel and a linear second channel, the linear first channel and the linear second channel intersecting perpendicularly to one another in a T-shaped configuration, and

wherein the at least one slide element is configured to be received in and slide across the linear first channel and the linear second channel.

16. The system of claim **15**, wherein, further, in accordance with the sliding movement of the at least one slide element across the channel of the main frame of the grip device:

alignment of the at least one slide element along a third direction and the attachment of the grip device to the surface associated with the portable electronic device render the portable electronic device supportable on a flat surface by a portion of the grip element contacting the flat surface.

17. The system of claim **15**, wherein the main frame of the grip device is attachable to one of: a surface of the portable electronic device and a surface of a case of the portable electronic device as the surface associated with the portable electronic device.

18. The system of claim **16**, wherein at least one of: the third direction is one of: the first direction and the second direction, and

based on the alignment of the at least one slide element of the grip element of the grip device along the third direction and the attachment of the grip device to the

surface associated with the portable electronic device, the portable electronic device is positionable on the flat surface both along a length and a width thereof.

19. The system of claim **15**, wherein at least one of: at least a portion of the main frame of the grip device is made of a magnetic material, and

the main frame is couplable to a plate made of the magnetic material such that, based on an appropriate sliding movement of the grip element of the grip device and a coupling of the plate to the portable electronic device, the portable electronic device is couplable to a magnetic phone stand via the plate even with the grip device still attached to the surface associated with the portable electronic device.

20. The system of claim **16**, wherein at least one of: the main frame of the grip device includes a notch implemented in the channel to remove the grip element by way of the at least one slide element therethrough without separating the main frame from the portable electronic device when the grip device is attached to the portable electronic device, and

the channel of the main frame of the grip device comprises a plurality of grooves therealong to hold the at least one slide element of the grip element to a specific position along the channel including the first configuration, the second configuration, and the alignment of the at least one slide element along the third direction.

* * * * *