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CHAPMAN

(54) **CELLPHONE GRIP ASSEMBLY**

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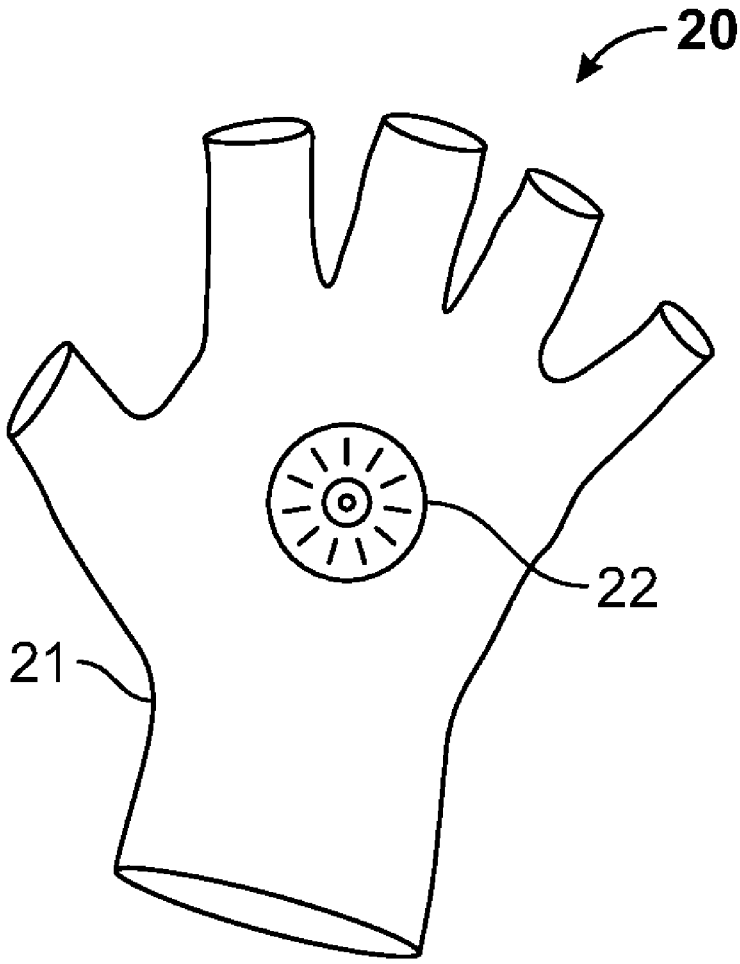
USPC **2/160**

(57) **ABSTRACT**

A cellphone grip assembly for assisting a user in securely holding a mobile phone is shown comprising a mobile case and a handling glove which each include a corresponding engaging portion which is configured to allow the mobile case to be removably and rotatably attached to a handling glove. When the mobile case and the handling glove are attached through an interlock of the engaging portions, the mobile case is can be rotated 360 degrees about the pivot created by the interlock formed by the engaging portions of the mobile case and the handling glove in response to manual force in a desired direction. Once in the desired position, the mobile case resists inadvertent movement due to a ratchet like mechanism in the engaging mechanism.



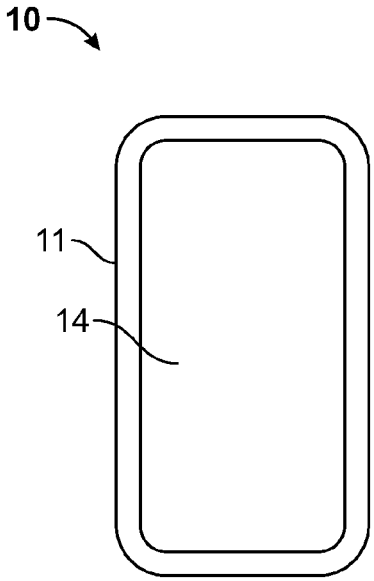


FIG. 1A

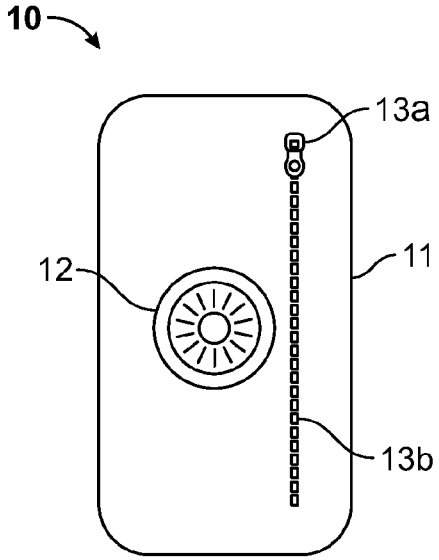


FIG. 1B

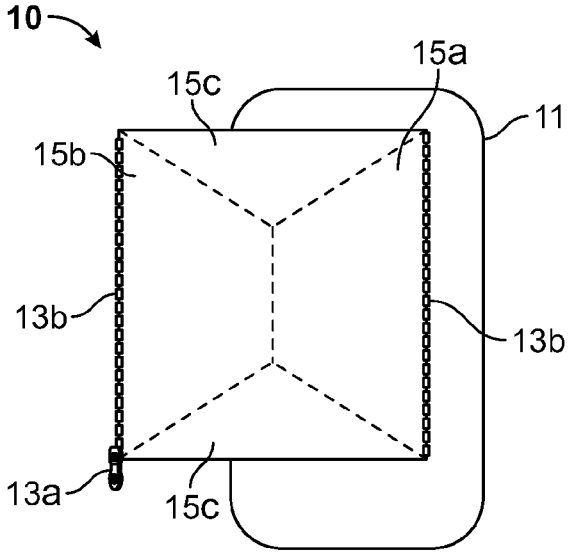


FIG. 1C

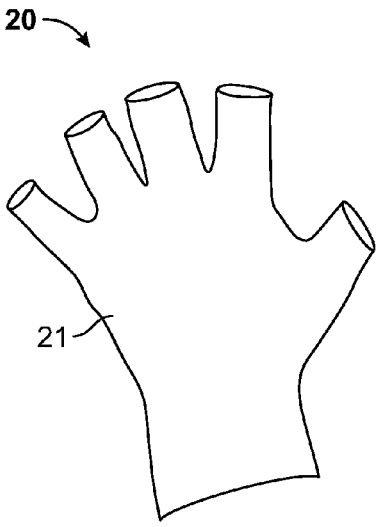


FIG. 2A

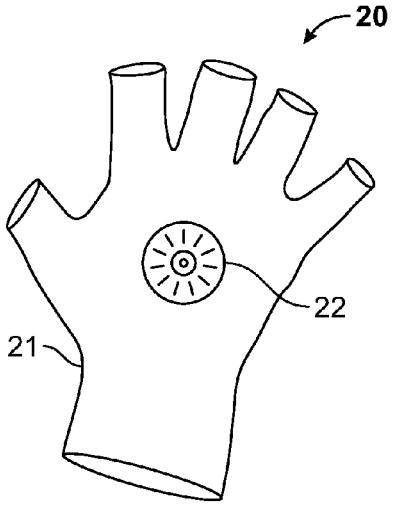


FIG. 2B

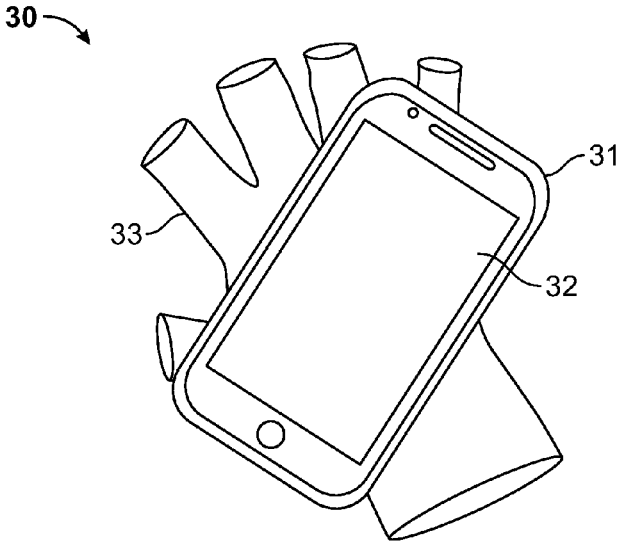


FIG. 3

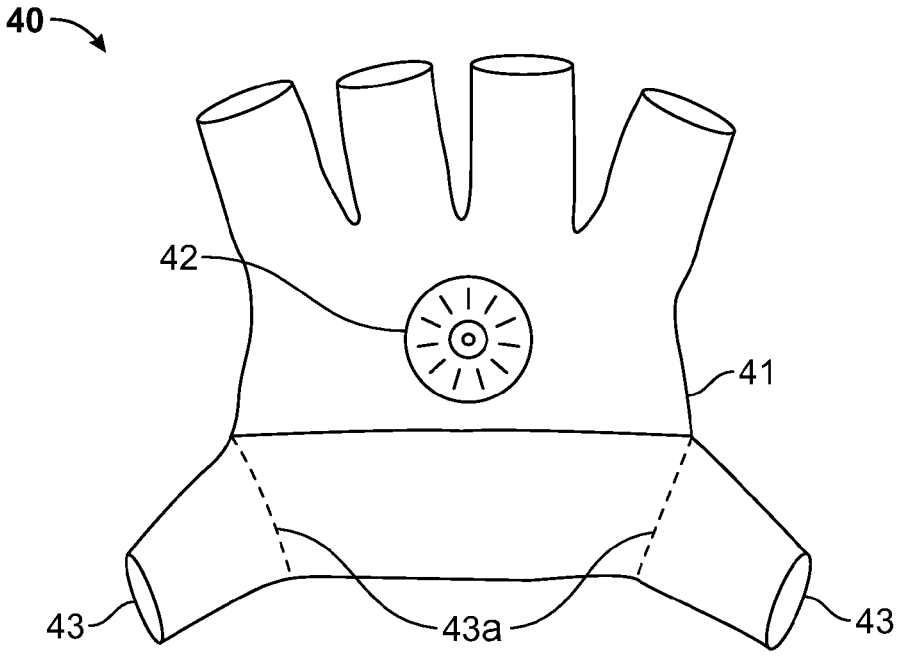


FIG. 4

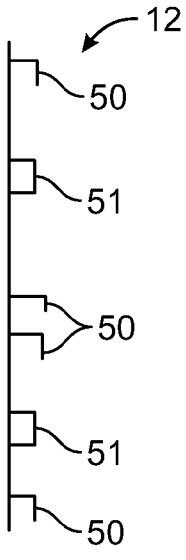


FIG. 5A

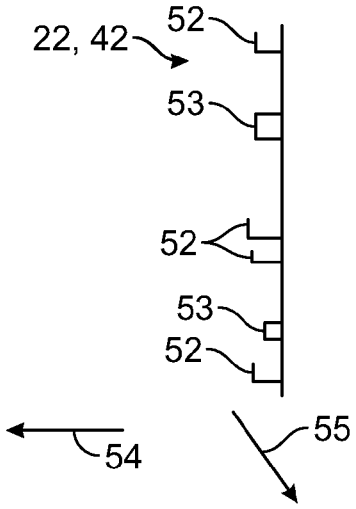


FIG. 5B

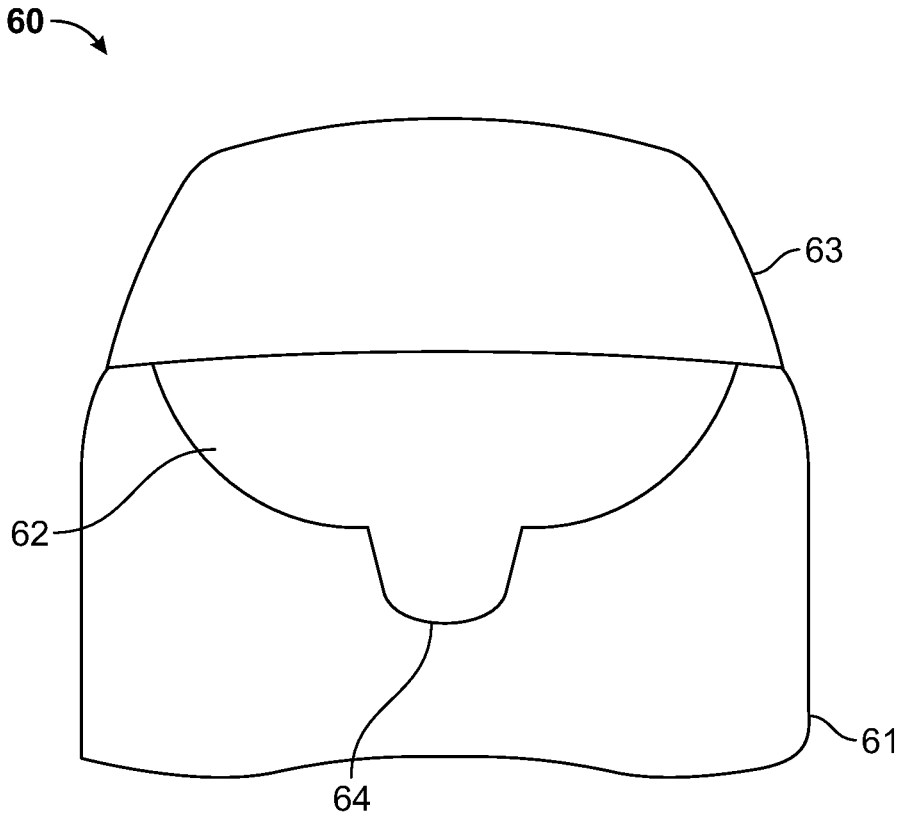


FIG. 6

CELLPHONE GRIP ASSEMBLY

BACKGROUND OF THE INVENTION

[0001] 1. Field of the Invention

[0002] This invention relates generally to mobile phone accessories and, more particularly, to a wearable glove which is adapted to improve grip and traction when holding a mobile device.

[0003] 2. Description of the Prior Art

[0004] It is clear that modern society has reached a point where almost every adult owns or regularly uses a mobile phone (or cellphone) and other related mobile devices. Part and parcel to such ownership or regular use comes the challenges to some presented by the regular handling of the phone, as well as the challenges in carrying the phone. This is typically due to the designs of mobile phones, which commonly results in a slippery exterior.

[0005] It is known that some elderly individuals, as well as those suffering from conditions like arthritis which affect one's ability to grip, have great difficulty in securely holding or carrying a mobile phone. Thus, there remains a need for a cellphone grip assembly which would assist one in securely handling a mobile phone. It would be helpful if such a cellphone grip assembly included a glove portion and a corresponding case portion to improve the ability to hold a mobile phone. It would be additionally desirable for such a cellphone grip assembly to include pivots to allow a mobile phone being held to be positioned in the most convenient manner while being held.

[0006] The Applicant's invention described herein provides for a cellphone grip assembly adapted to improve one's ability to hold a mobile phone. The primary components of Applicant's a cellphone grip assembly are a handling glove having a interlocking pivot and a mobile case having a interlocking pivot which corresponds to that on the glove. When in operation, the cellphone grip assembly allows a user to removably attach a mobile phone to a glove being worn. As a result, many of the handling limitations imposed by conventional mobile phone designs are removed.

SUMMARY OF THE INVENTION

[0007] A cellphone grip assembly for assisting a user in securely holding a mobile phone is shown comprising a mobile case and a handling glove. The mobile case provides a case means for retaining a mobile phone and the handling glove provides a glove means for handling a mobile phone. The mobile case and the handling glove each include a corresponding engaging portion which is configured to allow the mobile case to be removably and rotatably attached to a handling glove. Together, the engaging portions define an engaging mechanism, which provides an engaging means for rotatably attaching. The mobile case additionally includes a holding pouch, revealed by a zipper on the surface of the mobile case adapted to hold the handling glove when not in use.

[0008] When the mobile case and the handling glove are attached through an interlock of the engaging portions, the mobile case is can be rotated 360 degrees about the pivot created by the interlock formed by the engaging portions of the mobile case and the handling glove in response to manual force in a desired direction. Once in the desired position, the mobile case resists inadvertent movement due to a ratchet like mechanism in the engaging mechanism.

[0009] It is an object of this invention to provide a cellphone grip assembly which would assist one in securely handling a mobile phone.

[0010] It is another object of this invention to provide a cellphone grip assembly which includes a glove portion and a corresponding case portion to improve the ability to hold a mobile phone.

[0011] It is yet another object of this invention to provide a cellphone grip assembly which includes pivots to allow a mobile phone being held to be positioned in the most convenient manner while being held.

[0012] These and other objects will be apparent to one of skill in the art.

BRIEF DESCRIPTION OF THE DRAWINGS

[0013] FIG. **1***a* is a front plan view of the mobile case of a cellphone grip assembly built in accordance with the present invention.

[0014] FIG. **1***b* is a back plan view of the mobile case of a cellphone grip assembly built in accordance with the present invention.

[0015] FIG. **1***c* is a back elevational view of the mobile case of a cellphone grip assembly built in accordance with the present invention with its holding pouch exposed.

[0016] FIG. **2***a* is a front elevational view of the handling glove of a cellphone grip assembly built in accordance with the present invention.

[0017] FIG. **2***b* is a back elevational view of the handling glove of a cellphone grip assembly built in accordance with the present invention.

[0018] FIG. **3** is a front elevational view of a cellphone grip assembly built in accordance with the present invention.

[0019] FIG. **4** is a front elevational view of an alternate embodiment of the handling glove of a cellphone grip assembly built in accordance with the present invention.

[0020] FIG. **5***a* is a side elevational view of the interlocking pivot mechanism on the mobile case of a cellphone grip assembly built in accordance with the present invention.

[0021] FIG. **5***b* is a side elevational view of the interlocking pivot mechanism on the handling glove of a cellphone grip assembly built in accordance with the present invention.

[0022] FIG. **6** is a front elevational view of a purse adapted to hold a cellphone grip assembly built in accordance with the present invention.

DETAILED DESCRIPTION OF THE INVENTION

[0023] Referring now to the drawings and in particular FIGS. **1***a*, **1***b*, and **1***c*, a mobile case **10** of a cellphone grip assembly is shown having a rectangular case body **11**, a swivel pivot base **12**, a zipper **13***a* and a zipper track **13***b*. The rectangular case body is constructed of a non-slip material, defined as rubber in the preferred embodiment. The front of the rectangular case body **11** is cut out so as to include an open portion **14** which allows the screen and the user interface portions on the front side of a mobile phone (not shown) to be visible and accessible while the mobile phone is disposed inside the mobile case **10**. The swivel pivot base **12** is an engaging portion which is configured to allow the mobile case **10** to be removably and rotatably attached to a handling glove built in accordance with the present invention with a corresponding engaging portion.

[0024] A holding pouch **15***a* adapted to hold a handling glove built in accordance with the present invention when not

in use is disposed on the back of the case body **11**. Typically, the handling glove would be folded prior being inserted into the holding pouch **15***a*. The zipper **13***a* and the zipper track **13***b* allow the holding pouch **15***a* to be selectably closed and revealed. The zipper **13***a* and a first section of the zipper track **13***b* are disposed on the edge of a flap **15***b* which is configured to cover the holding pouch so that it can be placed over the holding pouch **15***a* to close the holding pouch **15***a* and flipped off the holding pouch, as exemplified in FIG. **1***c*, to reveal to holding pouch **15***a*. When the holding pouch **15***a* is open, two side flaps **15***c* constructed of a fabric material, which are present to prevent materials contained in the holding pouch **15***a* from sliding out the sides, are also revealed. A second section of the zipper track **13***b* is disposed on the edge of the holding pouch **15***a*. When the flap **15***b* is placed on the holding pouch **15***a* to close the holding pouch **15***a*, the first section of the zipper track **13***b* and the second section of the zipper track **13***b* become aligned so the zipper **13***a* can be engaged to removably attach to two zipper track sections **13***b*.

[0025] Referring now to FIGS. **2***a* and **2***b*, a handling glove **20** is shown having a glove body **21** and a glove pivot portion **22**. The glove body **21** is defined as a fingerless glove having a palmar side and a dorsal side and is constructed of a thin fabric material that is easy to fold. The fingerless aspect of the gloves provide for additional dexterity for a user in addition to the interlock of the engaging portions. The glove pivot portion **22** is disposed on the dorsal side of the glove and provides an engaging portion which corresponds to the swivel pivot base disposed on the rectangular case body of the mobile case.

[0026] Referring now to FIG. **3**, the cellphone grip assembly **30** is defined by the mobile case **31**, having a mobile phone **32** disposed therein, being removably attached to the handling glove **33**. When attached through an interlock of the engaging portions in accordance with the present invention, the mobile case **31** is configured to be rotated 360 degrees about a pivot created by the interlock formed by the engaging portions of the mobile case **31** and the handling glove **33** in response to manual force in a desired direction. Once in the desired position, the mobile case **31** resists inadvertent movement due to a series of ridges disposed in the respective engaging portions, which result in the production of a ratchet like mechanism which allows movement from manual force but resists movement from non-manual forces.

[0027] Referring now to FIG. **4**, an alternate embodiment of a handling glove **40** is shown as a glove body **41** and a glove pivot portion **42**. The glove body **41** is defined as a fingerless glove having a palmar side and a dorsal side and with bi-lateral thumbs **43**. The fingerless aspect of the gloves provide for additional dexterity for a user in addition to the interlock of the engaging portions. The bi-lateral thumbs **43** allow for the handling glove **40** to be used by right handed or left handed users. Whichever bi-lateral thumb **43** is not being used can be folded over a preset crease **43***a*. The glove pivot portion **43** is disposed on the dorsal side of the glove and provides an engaging portion which corresponds to the swivel pivot base disposed on the rectangular case body of the mobile case.

[0028] Referring now to FIGS. **5***a* and **5***b*, the swivel pivot base **12** and the glove pivot portion **22**, **42** are opposing portions of an engaging member which allows the mobile case and handling glove to removably attach to one another. The swivel pivot base **12** includes a plurality of base interlocks **50**, each facing the same direction, and base ridges **51**. The glove pivot portion **22**, **42** also includes a plurality of globe interlocks **52**, each facing the same direction and configured to interlock with the base interlocks **50**, and glove ridges **53**. The base interlocks **50** and glove interlocks **52** are constructed of a semi rigid material so that can be engaged through manual force in an engaging direction **54** and disengaged through manual force in a disengaging direction **55**.

[0029] Referring now to FIG. **6**, a purse **60** is shown which is adapted to hold the a mobile phone having a mobile case built in accordance with the present invention is shown having a purse body **61**, a purse opening **62**, a closing flap **63**, and a pivot base lip **64**. The pivot base lip **64** is sized and adapted to allow the swivel pivot base of the mobile case to not encumber the mobile case's ability to fit in the purse **60**, as it likely would in convention phone holders. In this way, the purse **60** provides a purse means for holding the mobile case.

[0030] The instant invention has been shown and described herein in what is considered to be the most practical and preferred embodiment. It is recognized, however, that departures may be made therefrom within the scope of the invention and that obvious modifications will occur to a person skilled in the art.

What is claimed is:

1. A cellphone grip assembly, comprising:

a mobile case having a rectangular case body with a front side and a back side, wherein said mobile case includes a case engaging portion on said back side;

a handling glove having a glove body with a palmar side and a dorsal side, wherein said handling glove includes a glove engaging portion on said dorsal side;

wherein said case engaging portion and said glove engaging portion are configured to releasably engage to form an engaging mechanism; and

wherein said engaging mechanism, when engaged, allows the mobile case rotate 360 degrees about the pivot created where the said case engaging portion and said glove engaging portion engage.

2. The cellphone grip assembly of claim **1**, wherein said glove body is defined as a fingerless glove.

3. The cellphone grip assembly of claim **1**, wherein said mobile case additionally includes a holding pouch disposed on said back side.

4. The cellphone grip assembly of claim **3**, wherein said mobile case additionally includes a zipper disposed on said back side and said zipper is adapted to allow the holding pouch to be selectably opened and closed.

5. The cellphone grip assembly of claim **1**, wherein:

said case engaging portion is defined as a swivel pivot base having a circular body and at least one base interlock and at least one base ridge; and

said glove engaging portion is defined as a glove pivot portion having a circular body and at least one glove interlock and at least one glove ridge.

6. The cellphone grip assembly of claim **5**, wherein:

said swivel pivot base includes four base interlocks; and

said glove pivot portion includes four glove interlocks.

7. The cellphone grip assembly of claim **5**, wherein:

said swivel pivot base includes two base ridges; and

said glove pivot portion includes two glove ridges.

8. The cellphone grip assembly of claim **5**, wherein said base interlock and glove interlock are constructed of a semi rigid material so that can be engaged through manual force in an engaging direction and disengaged through manual force in a disengaging direction.

9. The cellphone grip assembly of claim **1**, wherein said glove body includes bi-lateral thumbs.

10. The cellphone grip assembly of claim **1**, additionally comprising a purse having a purse body, a purse opening, a closing flap, and a pivot base lip, wherein said pivot base lip is configured to allow the case engaging portion to not encumber the mobile case's ability to fit securely in the purse.

11. A cellphone grip assembly, comprising:

a case means for retaining a mobile phone;

a glove means for handling a mobile phone; having a glove body with a palmar side and a dorsal side, wherein said handling glove includes a glove engaging portion on said dorsal side; and

an engaging means mechanism an engaging means for rotatably attaching disposed on said case means and said glove means.

12. The cellphone grip assembly of claim **11**, additionally comprising a purse means for holding the case means.

* * * * *