Currently there are a number of solutions which attempt to reduce the problems associated with dropped, damaged, lost, and stolen mobile devices. Some of these solutions include providing cases to attempt to protect a mobile device from being damaged when dropped. Although cases are helpful, they are not a complete solution. Often these alone cases are problematic as they do not protect a dropped device from all the different degrees and types of damage which may occur from such a drop, prevent theft, prevent loss. Further, robust cases can be heavy and cumbersome additions to the device as well as expensive. Further, cases are specific to one type of phone and are usually not compatible across a variety of models. Another solution has been to purchase insurance on a mobile device, however the deductibles are often hundreds of dollars (USD) alone and an individual still has to cope with the issues of inconvenience due to lost productivity or family time and lost data such as pictures, e-mail contacts, phone numbers, and notes.

It would be desirable to have a solution which would be compatible with a variety of popular mobile devices with cases; be reusable, robust, removable, and inexpensive which could prevent phones from being dropped, damaged, lost, and stolen. Furthermore, it would be desirable to have an apparatus which would allow a user to connect their mobile device to their persons or property. Therefore, there currently exists a need in the industry such a solution.

SUMMARY OF THE INVENTION

According to a first aspect of the present invention, there is provided a removable mobile device connection apparatus including: a folded first material configured into a geometric shape comprising a first layer and a second layer; wherein the first layer comprises a top surface, a bottom surface, and a bottom edge, and the second layer is located below the first layer and comprises a top surface, a bottom surface, and a bottom edge; a strengthening material located between the first layer and the second layer and configured to create a connection point extending from the center of the bottom edges of the first and second layer; and a second material configured into a geometric shape comprising a third layer and located beneath the second layer; wherein the bottom surface of the first layer is adhered by a first adhesive to the strengthening material and also to the top surface of the second layer, and the bottom surface of the second layer is adhered by a second adhesive to the top surface of the third layer.

Disclosed herein is a removable mobile device connection apparatus including: a folded first material configured into a geometric shape comprising a first layer and a second layer; wherein the first layer comprises a top surface, a bottom surface, and a bottom edge, and the second layer is located below the first layer and comprises a top surface, a bottom surface, and a bottom edge; a strengthening material located between the first layer and the second layer and configured to create connection point extending from the center of the bottom edges of the first and second layer; and a second material configured into a geometric shape comprising a third layer and located beneath the second layer; wherein the bottom surface of the first layer is adhered by a first adhesive to the strengthening material and also to the top surface of the second

layer, and the bottom surface of the second layer is adhered by a second adhesive to the top surface of the third layer.

According to a second aspect of the present invention, there is provided a mobile device connection system for use with a mobile device including: a mobile device case; a removable non-adhesive mobile device connection apparatus located inside the case, the mobile device connection apparatus including: a first material folded to define a first layer and a second layer; and a strengthening material located between the first layer and the second layer and configured to create a connection point extending from the center of the bottom edges of the first and second layers; and a user connection unit removably attached to the mobile device connection apparatus

According to a third aspect of the present invention, there is provided a method to physically secure a removable mobile device with a case to a user, surface, or structure , the method including: placing a removable mobile device connection apparatus with a connection point on the inside surface of mobile device case, centering the apparatus near an opening of the case so the connection point extends through the case opening, the removable mobile device connection apparatus comprising a first material folded to define a first layer and a second layer, and a strengthening material located between the first layer and the second layer and configured to create the connection point extending from the center of the bottom edges of the first and second layers; placing the mobile device into the case so the removable mobile device connection apparatus is configured securely without adhesive between the inside of the case and the back surface of the mobile device, with the connection point extending away from the mobile device and case, extending through an opening in the case; and attaching a securing material to the connection point.

Embodiments of the invention physically connect mobile devices along with a corresponding case or housing, such as a cellular telephone, mobile phone, smart phone (specifically at least iPhone® versions 4, 4S, 5, 5S, 5c, 6, 6S, 6 Plus, 6S Plus, SE, 7, and 7 Plus,) or mobile computing device, to a user, surface, or structure. Embodiments of the present invention are reusable and are compatible with at least any iPhone® brand mobile device and its corresponding case or housing; thus first and foremost reducing the potential for damage to the mobile device if it is dropped by a user and hits the ground. Embodiments of the invention also act to deter mobile device theft by keeping the mobile device physically connected to the user, surface, or structure. In addition, embodiments of the invention also prevent accidental loss of the mobile device due to user forgetfulness. Also, mobile devices are difficult to anchor to a surface or structure without a specialized case. Embodiments of the invention allow anchoring to such surfaces or structures using just a device as per embodiments of the invention and the existing mobile device and associated case, allowing a user to interact with the mobile devices in new ways. For example it may be desirable to hang the mobile device on a hook to keep it off the ground in a wet or dirty environment or connected to a user if they are working high above the ground. Further, embodiments of the invention could be used as a "leash" or "handle" for the mobile device to allow the user to easily, quickly, and safely remove the mobile device from a

CLAIMS

1. A removable mobile device connection apparatus comprising:

a folded first material configured into a geometric shape comprising a first layer and a second layer; wherein the first layer comprises a top surface, a bottom surface, and a bottom edge, and the second layer is located below the first layer and comprises a top surface, a bottom surface, and a bottom edge;

a strengthening material located between the first layer and the second layer and configured to create a connection point extending from the center of the bottom edges of the first and second layer; and

a second material configured into a geometric shape comprising a third layer and located beneath the second layer; wherein the bottom surface of the first layer is adhered by a first adhesive to the strengthening material and also to the top surface of the second layer, and the bottom surface of the second layer is adhered by a second adhesive to the top surface of the third layer.

2. A removable mobile device connection apparatus according to claim 1, wherein the apparatus is less than or equal to 1.016 mm thick.

3. A removable mobile device connection apparatus according to claim 1, wherein the connection point is a loop.

4. A removable mobile device connection apparatus according to claim 3, wherein the loop is between 10 mm and 12 mm long.

5. A removable mobile device connection apparatus according to claim 1, wherein the first material is comprised of thermoplastic polymer resin.

6. A removable mobile device connection apparatus according to claim 1, wherein the first material is comprised of high-density polyethylene fiber material.

7. A removable mobile device connection apparatus according to claim 1, wherein the second material is comprised of polyvinyl chloride.

8. A removable mobile device connection apparatus according to claim 1, wherein the strengthening material comprises nylon, Kevlar, or carbon fiber filament.

9. A removable mobile device connection apparatus according to claim 8, wherein the strengthening material further comprises urethane coated nylon 420 denier.

10. A removable mobile device connection apparatus according to claim 1, wherein the first adhesive and the second adhesive is a permanent acrylic adhesive tape with at least 1116 g/cm adhesive value.

11. A removable mobile device connection apparatus according to claim 1, wherein the first, second, and third layers are all quadrilateral shaped with rounded corners.

12. A mobile device connection system for use with a mobile device comprising:

a mobile device case;

a removable non-adhesive mobile device connection apparatus located inside the case, the mobile device connection apparatus comprising:

a first material folded to define a first layer and a second layer; and

a strengthening material located between the first layer and the second layer and configured to create a connection point extending from the center of the bottom edges of the first and second layers; and

a user connection unit removably attached to the mobile device connection apparatus.

13. A mobile device connection system according to claim 12, wherein the user connection unit is a ring.

14. A mobile device connection system according to claim 12, wherein the mobile device case is comprised of plastic, rubber, silicon, or metal.

15. A method to physically secure a removable mobile device with a case to a user, surface, or structure, the method comprising:

placing a removable mobile device connection apparatus with a connection point on the inside surface of mobile device case, centering the apparatus near an opening of the case so the connection point extends through the case opening, the removable mobile device connection apparatus comprising a first material folded to define a first layer and a second layer, and a strengthening material located between the first layer and the second layer and configured to create the connection point extending from the center of the bottom edges of the first and second layers;

placing the mobile device into the case so the removable mobile device connection apparatus is configured securely without adhesive between the inside of the case and the back surface of the mobile device, with the connection point extending away from the mobile device and case, extending through an opening in the case; and

attaching a securing material to the connection point.

16. The method according to claim 15, wherein the mobile device is a smart phone.

17. The mobile device connection system according to claim 12, wherein the strengthening material comprises a first portion located between the first and second layers and a second portion extending from the first and second layers to define the connection point spaced away from the first material.

18. The mobile device connection system according to claim 12, wherein the first material is folded along an edge to define the first and second layers, the strengthening material extending from the first and second layers opposite of the edge.

19. The method according to claim 15, wherein the strengthening material comprises a first portion located between the first and second layers and a second portion extending from the first and second layers to define the connection point spaced away from the first material.