A sleeve structure for a hand-held electronic device is assembled by a hard back cover and a soft plastic collar to enclose a hand-held electronic device, especially a tablet personal computer or a mobile phone. The hard back cover is made by Arclay and an entire surface manifests a pattern of diamonds to facilitate holding by a hand and increase fanciness and brightness. An inner surface of the back cover can be glued and attached with a laser reflection sticker which is printed with a pattern or can be processed with electroplating, depending on a shape design of the tablet personal computer or the mobile phone, thereby achieving fanciness and brightness. In addition, the soft plastic collar to enclose peripheries can prevent from scratching.
SLEEVE STRUCTURE FOR A HAND-HELD ELECTRONIC DEVICE

BACKGROUND OF THE INVENTION

[0001] a) Field of the Invention

[0002] The present invention relates to a sleeve structure for a hand-held electronic device, and more particularly to a sleeve which is connected by an Arcly back cover, an entire surface of which manifests a diamond shape, and a soft plastic collar, a surface of which is provided with round embosses, wherein an inner surface of the Arcly back cover is attached with a laser reflection sticker which is printed with a color transparent pattern or is processed with electroplating, allowing the back cover to be fancy and shiny. In addition, an inner surface of the soft plastic collar is also attached with a laser reflection sticker which is printed with a color transparent pattern, such that the soft plastic collar can be consistent with the back cover.

[0003] b) Description of the Prior Art

[0004] As development of technologies, a hand-held electronic device, especially a tablet personal computer or a mobile phone, is getting thinner and thinner. To facilitate hand-held operating and avoid scratching an outer casing, a user will usually provide a soft plastic sleeve. Although there are many kinds of colors for the existing soft plastic sleeves, their appearances do not change much and are lack of novelty.

[0005] Moreover, for a diamond ornament sold in an existing market, the diamonds must be glued and attached one by one, which includes a tedious manual operation and therefore is provided with an extremely high cost. On the other hand, a single diamond that is glued and attached manually can be easily unglued and thus its yield is not high. Whereas, the diamonds of the diamond back cover of the present invention are glued only once and therefore will never be unglued.

[0006] Furthermore, it is difficult to configure a pattern to the existing diamonds which must be attached one by one. However, for the present invention, one only needs to print a transparent color pattern on the laser reflection sticker.

[0007] Accordingly, to solve the aforementioned issues, a sleeve structure for a hand-held electronic device is created by the present inventor.

SUMMARY OF THE INVENTION

[0008] The primary object of the present invention is to provide a sleeve structure for a hand-held electronic device which includes primarily an Arcly diamond back cover and a soft plastic collar, wherein the back cover is snapped with the soft plastic collar to form an integrated one piece unit for use.

[0009] Another object of the present invention is to provide the sleeve structure for a hand-held electronic device, wherein an outer surface of the Arcly diamond back cover is configured as a shape of diamonds and an inner surface of the back cover is a flat surface or an arc surface, depending on the electronic product, especially a tablet personal computer or a mobile phone. For the flat back cover, the inner surface is glued with a laser reflection sticker which is printed with a color transparent pattern, whereas for the arc-shaped back cover, the inner surface is processed with electroplating, allowing the Arcly back cover to be fancy and shiny.

[0010] Still another object of the present invention is to provide the sleeve structure for a hand-held electronic device, wherein peripheries of the sleeve are enclosed by the soft plastic collar to facilitate putting in or taking out an enclosed object. An outer surface of the soft plastic collar is provided with plural embosses, which can increase brightness and is also able to facilitate holding with a hand. An inner surface of the soft plastic collar is also attached with a laser reflection sticker which is printed with a color transparent pattern that the soft plastic collar can be consistent with the back cover.

[0011] To enable a further understanding of the said objectives and the technological methods of the invention herein, the brief description of the drawings below is followed by the detailed description of the preferred embodiments.

BRIEF DESCRIPTION OF THE DRAWINGS

[0012] FIG. 1 shows a three-dimensional front view of the present invention.

[0013] FIG. 2 shows a three-dimensional rear view of the present invention.

[0014] FIG. 3 shows a three-dimensional schematic view of the present invention into which a mobile phone is put.

[0015] FIG. 4 shows a three-dimensional cutaway view of the present invention into which the mobile phone is put.

[0016] FIG. 4A shows a local three-dimensional blow-up view of the present invention into which the mobile phone is put.

[0017] FIG. 5 shows a three-dimensional exploded view of the present invention.

[0018] FIG. 6 shows a three-dimensional cutaway view of another embodiment of the present invention.

[0019] FIG. 6B shows a local three-dimensional blow-up view of a snapback structure of another embodiment of the present invention.

[0020] FIG. 7 shows a three-dimensional exploded view of another embodiment of the present invention.

[0021] FIG. 8 shows a three-dimensional schematic view of still another embodiment of the present invention.

[0022] FIG. 9 shows a three-dimensional cutaway view of still another embodiment of the present invention.

[0023] FIG. 9C shows a local three-dimensional blow-up view of a snapback structure of still another embodiment of the present invention.

[0024] FIG. 10 shows a schematic view of the present invention, wherein a mobile phone is put vertically on a simple bracket.

[0025] FIG. 11 shows a schematic view of the present invention, wherein the mobile phone is put horizontally on the simple bracket.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0026] The present invention is a sleeve structure for a hand-held electronic device, especially an enclosed product such as a tablet personal computer or a mobile phone, including an e-book.

[0027] The detailed description and technical contents of the present invention are disclosed below, using a plane-shaped mobile phone sleeve as an example.

[0028] Referring to FIG. 1 and FIG. 2, it shows three-dimensional schematic views of the present invention. As shown in the drawings, the sleeve structure of the present invention comprises an Arcly diamond back cover 10 and a soft plastic collar 20.

[0029] Referring to FIGS. 3 to 5 at a same time, the Arcly diamond back cover 10 is used to cover a rear surface of the mobile phone and an outer surface of the back cover 10 is
provided with a function key hole 11. The entire back cover 10 is provided with plural diamond-shaped embosses 12 and peripheries are provided with plural snapping tenons 13. Besides, an inner surface of the back cover 10 is attached with a laser reflection sticker which is printed with a color transparent pattern or is processed with electroplating.

[0030] The soft plastic collar 20 is used to enclose peripheries of the mobile phone and is provided with plural round embosses 21 and plural function key holes 22 as well as grooves 23 which are snapped with the tenons 13 of the back cover 10. In addition, an inner surface of the soft plastic collar 20 is attached with a laser reflection sticker which is printed with a color transparent pattern. The soft plastic collar 20 and the Arcly diamond back cover 10 are glued together after attaching with the reflections stickers, forming an integrated one piece unit for use. Referring to FIG. 3, it shows a schematic view of the present invention, after a mobile phone 30 has been put in.

[0031] Referring to FIG. 4, it shows a cutaway view of the present invention, after the mobile phone 30 has been put in.

[0032] Referring to FIG. 4A, it shows a blow-up view of the back cover 10 and the soft plastic collar 20 of the present invention, at a place where the two elements are snapped together.

[0033] Referring to FIG. 5, it shows a three-dimensional exploded view of the present invention, wherein the inner surfaces of the Arcly diamond back cover 10 and the soft plastic collar 20 are all attached with the laser reflection stickers which are printed with the color transparent patterns.

[0034] Referring to FIG. 6 and FIG. 7, it shows schematic views of another embodiment of the snapping structure of the Arcly diamond back cover 10 and the soft plastic collar 20 of the present invention, wherein FIG. 6B is a local blow-up view of the snapping structure of FIG. 6.

[0035] Referring to FIGS. 8 to 9C, it shows schematic views of still another embodiment of the snapping structure of the Arcly diamond back cover 10 and the soft plastic collar 20 of the present invention, wherein FIG. 9C is a local blow-up view of the snapping structure of FIG. 9 and the Arcly diamond back cover 10 is in a shape of an arc surface.

[0036] Referring to FIG. 10 and FIG. 11, it shows three-dimensional schematic views of the present invention, wherein the mobile phone is put vertically or horizontally on a simple bracket 40.

[0037] It is of course to be understood that the embodiments described herein is merely illustrative of the principles of the invention and that a wide variety of modifications thereto may be effected by persons skilled in the art without departing from the spirit and scope of the invention as set forth in the following claims.

What is claimed is:

1. A sleeve structure for a hand-held electronic device comprising:
   an Arcly diamond back cover which is used to cover a rear surface of the enclosed hand-held electronic device; and a soft plastic collar which is used to enclose peripheries of the enclosed hand-held electronic device.

2. The sleeve structure for a hand-held electronic device according to claim 1, wherein an appearance of the entire Arcly diamond back cover is provided with diamond-shaped embosses, and an inner surface of the back cover is glued and attached with a laser reflection sticker which is printed with a color transparent pattern or is processed with electroplating.

3. The sleeve structure for a hand-held electronic device according to claim 1, wherein an inner side of the soft plastic collar is glued and attached with a laser reflection sticker which is printed with a color transparent pattern.

4. The sleeve structure for a hand-held electronic device according to claim 1, wherein the Arcly diamond back cover is snapped with the soft plastic collar, forming an integrated one piece unit for use.

5. The sleeve structure for a hand-held electronic device according to claim 1, wherein the enclosed hand-held electronic device is a tablet personal computer, a mobile phone, or an e-book.

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