COSMETIC CASING ASSEMBLY

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ABSTRACT

A cosmetic casing assembly has a base assembly, a cover, an engaging device and a resilient member. The base assembly has at least one recess defined in the base assembly. The cover is pivotally connected to the base assembly. The engaging device is mounted between the base assembly and the cover to hold the cover at a closed condition relative to the base assembly. The resilient member is pliable, is mounted between the base assembly and the cover and has a first positioning segment, a second positioning segment and a bent resilient segment. The first positioning segment is connected to the base assembly. The second positioning segment is connected to the cover. The bent resilient segment is formed between the positioning segments. Accordingly, the pliable resilient member can provide a gentle force for opening the cover relative to the base assembly.
FIG. 6
COSMETIC CASING ASSEMBLY

BACKGROUND OF THE INVENTION

[0001] Field of the Invention
[0002] The present invention relates to a cosmetic casing assembly, and more particularly to a cosmetic casing assembly having a pliable resilient member to provide a gentle force for opening a cover relative to a base assembly.
[0003] Description of Related Art
[0004] Cosmetics are popular to and widely used by women and girls for making up purpose. To hold cosmetics, a cosmetic casing is provided and comprises a base, a cover, an engaging device and a torsion spring. The base has multiple recesses defined in the base and holding cosmetics or cosmetic tools inside. The cover is pivotally connected to the base with a pivot. The engaging device is mounted between the base and the cover to hold the cover at a close condition relative to the base. The torsion spring is mounted around the pivot and has two ends abutting respectively with the base and the cover. When the engaging device is disengaged, the cover can be pivoted automatically relative to the base with the force provided by the torsion spring.
[0005] However, the force provided by the torsion spring for opening the cover is too large to cause the cover pivoting at a high speed. Consequently, a huge impact is applied to the conjunction between the base and the cover and causes the damage of the casing assembly. Additionally, to against the huge impact, the user always has to hold the casing with one hand and with another hand pressing the cover to prevent the cover pivoting at a high speed. However, this causes inconvenience to use the cosmetic casing assembly.
[0006] To overcome the shortcomings, the present invention tends to provide a cosmetic casing assembly to mitigate or obviate the aforementioned problems.

SUMMARY OF THE INVENTION

[0007] The main objective of the invention is to provide a cosmetic casing assembly having a pliable resilient member to provide a gentle force for opening a cover relative to a base assembly. The cosmetic casing assembly has a base assembly, a cover, an engaging device and a resilient member. The base assembly has at least one recess defined in the base assembly. The cover is pivotally connected to the base assembly. The engaging device is mounted between the base assembly and the cover to hold the cover at a closed condition relative to the base assembly. The resilient member is pliable, is mounted between the base assembly and the cover and has a first positioning segment, a second positioning segment and a bent resilient segment. The first positioning segment is connected to the base assembly. The second positioning segment is connected to the cover. The bent resilient segment is formed between the positioning segments.

[0008] Other objects, advantages and novel features of the invention will become more apparent from the following detailed description when taken in conjunction with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0009] FIG. 1 is an exploded perspective view of a cosmetic casing assembly in accordance with the present invention.
[0010] FIG. 2 is a perspective view of the cosmetic casing assembly in FIG. 1;

[0011] FIG. 3 is a cross sectional side view of the cosmetic casing assembly along line 3-3 in FIG. 2;
[0012] FIG. 4 is an operational cross sectional side view of the cosmetic casing assembly along line 4-4 in FIG. 2;
[0013] FIG. 5 is a perspective view of the cosmetic casing assembly in FIG. 2 being opened;
[0014] FIG. 6 is a cross sectional side view of the cosmetic casing assembly in FIG. 5 being opened.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENT

[0015] With reference to FIGS. 1 to 4, a cosmetic casing assembly in accordance with the present invention comprises a base assembly (10), a cover (20), an engaging device and a pliable resilient member (30).
[0016] The base assembly (10) comprises a bottom housing (11), a cosmetic holder (12) and at least one recess (121). The bottom housing (11) is hollow and has a bottom, a positioning rib (14) and a notch defined in an edge of the bottom housing (11). The positioning rib (14) is formed in the bottom of the bottom housing (11) at a position near the edge defining the notch.
[0017] The cosmetic holder (12) is mounted in the bottom housing (11), and the at least one recess (121) is defined in a top surface of the cosmetic holder (12) for holding cosmetics or cosmetic tools, such as brushes inside.
[0018] The cover (20) is pivotally connected to the base assembly (10), may be connected pivotally to the cosmetic holder (12) and may have a mirror (25) mounted on the cover (20) at a side facing the base assembly (10). To pivotally connect the cover (20) to the cosmetic holder (12), the cosmetic holder (12) has two pivot mounts (122) formed separately on an edge of the cosmetic holder (12) corresponding to the notch in the bottom housing (11). The cover (20) further has two pivot posts (24) formed on an edge of the cover (20) and respectively mounted rotatably in the pivot mounts (122) on the cosmetic holder (12) to pivotally connect the cover (20) to the cosmetic holder (12).
[0019] The engaging device is mounted between the base assembly (10) and the cover (20) to hold the cover (20) at a closed condition relative to the base assembly (10) and comprises two engaging buttons (13) and two hooks (21). The engaging buttons (13) are mounted respectively on two sides of the bottom housing (11) of the base assembly (10) and each has an engaging hole (17) and a hooking portion (18). The engaging hole (17) is defined in the engaging button (13) and has an inner surface. The hooking portion (18) is formed on the inner surface of the engaging hole (17).
[0020] To mount the engaging buttons (13) on the base assembly (10), the bottom housing (11) further has two cut-outs, two button sockets (15) and multiple holding tabs (16). The cut-outs are respectively defined through the sides of the bottom housing (11). The button sockets (15) are formed respectively on the sides of the bottom housing (11), correspond respectively to the cut-outs and respectively hold the engaging buttons (13) inside. The holding tabs (16) are formed on the bottom of the bottom housing (11) and respectively spaced from the button sockets (15) and abut with two ends of the engaging buttons (13).
[0021] The hooks (21) are formed on and protrude from the cover (20), are mounted respectively into the engaging holes (17) in the engaging buttons (13) and respectively engage
detachably the hooking portions (18) in the engaging holes (17) when the cover (20) is closed relative to the base assembly (10).

[0022] The pliable resilient member (30) is made of a pliable material, such as silicon gel, may be a resilient panel, is mounted between the base assembly (10) and the cover (20), may be mounted between the pivot mounts (122) on the cosmetic holder (12) and comprises a first positioning segment (31), a second positioning segment (32) and a bent resilient segment (33).

[0023] The first positioning segment (31) is connected to the base assembly (10), is mounted around the positioning rib (14) and is squeezed between the bottom housing (11) and the cosmetic holder (12).

[0024] The second positioning segment (32) is connected to the cover (20) and extends out of the base assembly (10) via the notch in the bottom housing (11). To connect the second positioning segment (32) to the cover (20), the second positioning segment (32) has at least one mounting hole (34) defined through the second positioning segment (32). The cover (20) further has at least one mounting stub (22) and a squeezing lid (23). The at least one mounting stub (22) is formed on the cover (20) at a side facing the base assembly (10) and is mounted respectively in the at least one mounting hole (34) in the second positioning segment (32) of the resilient member (30). The squeezing lid (23) is attached to and engages the at least one mounting stub (22) on the cover (20) to squeeze the second positioning segment (32) of the resilient member (30) between the cover (20) and the squeezing lid (23).

[0025] The bent resilient segment (33) is formed between the positioning segments (31, 32), extends out of the base assembly (10) via the notch in the bottom housing (11) and may have a triangular cross section.

[0026] With reference to FIGS. 2 to 4, when the cover (20) is covered onto the base assembly (10), the hooks (21) on the cover (20) will enter into and be mounted in the engaging holes (17) in the engaging buttons (13) and engage respectively the hooking portions (18) in the engaging buttons (13). Accordingly, the cover (20) can be held securely at the closed condition relative to the base assembly (10). At this time, the bent resilient segment (33) of the resilient member (30) is deformed to generate a recoil force.

[0027] To open the cover (20), with reference to FIGS. 5 and 6, the cosmetic casing assembly is held with one hand of a user, and the engaging buttons (13) are pressed by fingers of the user's hand holding the cosmetic casing assembly. When the engaging buttons (13) are pressed, the middle of the engaging buttons (13) will be deformed and retracted into the bottom housing (11) because the ends of the engaging buttons (13) are held in the button sockets (15) and by the holding tabs (16). Consequently, the hooking portions (18) in the engaging buttons (13) are disengaged from the hooks (21) and the cover (20) can be pivoted relative to the base assembly (10) with the recoil force provided by the resilient member (30). Accordingly, the user can use the cosmetics and tools held in the recesses (121) with the mirror (25) on the cover (20).

[0028] Because the resilient member (30) is made of a pliable material such as silicon gel, the recoil force provided by the resilient member (30) is gentle such that the speed of the cover (20) pivoting relative to the base assembly (10) is low. Accordingly, the impact force applied to the cover (20) due to the force provided by the resilient member (30) can be efficiently reduced. This can keep the cosmetic casing assembly from being damaged, and the useful life of the cosmetic casing assembly can be prolonged. With the reduced impact force, a user, even a girl can hold and open the cosmetic casing assembly in stable with one hand, so that the operation of the cosmetic casing assembly is convenient. Moreover, the structure of the cosmetic casing assembly can be simplified and to assemble the cosmetic casing assembly is easy, and the cost for manufacturing the cosmetic casing assembly can also be reduced.

[0029] Even though numerous characteristics and advantages of the present invention have been set forth in the foregoing description, together with details of the structure and function of the invention, the disclosure is illustrative only, and changes may be made in detail, especially in matters of shape, size, and arrangement of parts within the principles of the invention to the full extent indicated by the broad general meaning of the terms in which the appended claims are expressed.

What is claimed is:
1. A cosmetic casing assembly comprising:
a base assembly having at least one recess defined in the base assembly;
a cover pivotally connected to the base assembly;
an engaging device mounted between the base assembly and the cover to hold the cover at a closed condition relative to the base assembly; and
a pliable resilient member mounted between the base assembly and the cover and comprising
a first positioning segment connected to the base assembly;
a second positioning segment connected to the cover; and
a bent resilient segment formed between the positioning segments.

2. The cosmetic casing assembly as claimed in claim 1, wherein
the base assembly comprises
a bottom housing; and
a cosmetic holder mounted in the bottom housing, wherein the at least one recess is defined in a top surface of the cosmetic holder; and the cover is pivotally connected to the cosmetic holder.

3. The cosmetic casing assembly as claimed in claim 2, wherein the bottom housing has a positioning rib formed in the bottom housing; and
the first positioning segment of the resilient member is mounted around the positioning rib and squeezed between the bottom housing and the cosmetic holder.

4. The cosmetic casing assembly as claimed in claim 3, wherein
the second positioning segment of the resilient member further has at least one mounting hole defined through the second positioning segment; and
the cover further has
at least one mounting stub formed on the cover and mounted respectively in the at least one mounting hole in the second positioning segment of the resilient member; and
a squeezing lid attached to and engaging the at least one mounting stub of the cover to squeeze the second positioning segment of the resilient member between the cover and the squeezing lid.

5. The cosmetic casing assembly as claimed in claim 3, wherein
the cosmetic holder has two pivot mounts formed separately on an edge of the cosmetic holder; the cover further has two pivot posts formed on an edge of the cover and respectively mounted rotatably in the pivot
mounts on the cosmetic holder to pivotally connect the cover to the cosmetic holder; and
the resilient member is mounted between the pivot mounts on the cosmetic holder.
6. The cosmetic casing assembly as claimed in claim 5, wherein the engaging device comprises
two engaging buttons mounted respectively on two sides of the bottom housing of the base assembly; and
two hooks formed on the cover and engaging respectively
the engaging buttons on the base assembly.
7. The cosmetic casing assembly as claimed in claim 6, wherein the bottom housing of the base assembly further has
two button sockets formed respectively on the sides of the bottom housing and respectively holding the engaging buttons inside; and
multiple holding tabs formed in the bottom housing and respectively spaced from the button sockets and abutting with the engaging buttons.
8. The cosmetic casing assembly as claimed in claim 7, wherein
each engaging button has
an engaging hole defined in the engaging button and
having an inner surface; and
a hooking portion formed on the inner surface of the engaging hole; and
the hooks on the cover are mounted respectively into the engaging holes in the engaging buttons and engaging detachably the hooking portions in the engaging holes when the cover is closed relative to the base assembly.
9. The cosmetic casing assembly as claimed in claim 8, wherein the cover further has a mirror mounted on the cover.
10. The cosmetic casing assembly as claimed in claim 9, wherein the resilient member is made of silicon gel.
11. The cosmetic casing assembly as claimed in claim 1, wherein the base assembly has a positioning rib formed in the base assembly; and
the first positioning segment of the resilient member is
mounted around the positioning rib.
12. The cosmetic casing assembly as claimed in claim 1, wherein
the second positioning segment of the resilient member
further has at least one mounting hole defined through
the second positioning segment; and
the cover further has
at least one mounting stub formed on the cover and
mounted respectively in the at least one mounting hole in the second positioning segment of the resilient member; and
a squeezing lid attached to and engaging the at least one
mounting stub of the cover to squeeze the second positioning segment of the resilient member between the cover and the squeezing lid.
13. The cosmetic casing assembly as claimed in claim 1, wherein
the base assembly has two pivot mounts formed separately on an edge of the base assembly;
the cover further has two pivot posts formed on an edge of the cover and respectively mounted rotatably in the pivot mounts on the base assembly to pivotally connect the cover to the base assembly; and
the resilient member is mounted between the pivot mounts on the base assembly.
14. The cosmetic casing assembly as claimed in claim 1, wherein the engaging device comprises
two engaging buttons mounted respectively on two sides of the base assembly; and
two hooks formed on the cover and engaging respectively
the engaging buttons on the base assembly.
15. The cosmetic casing assembly as claimed in claim 14, wherein the base assembly further has
two button sockets formed respectively on the sides of the base assembly and respectively holding the engaging buttons inside; and
multiple holding tabs formed in the base assembly and respectively spaced from the button sockets and abutting with the engaging buttons.
16. The cosmetic casing assembly as claimed in claim 14, wherein
each engaging button has
an engaging hole defined in the engaging button and
having an inner surface; and
a hooking portion formed on the inner surface of the engaging hole; and
the hooks on the cover are mounted respectively into the engaging holes in the engaging buttons and engaging detachably the hooking portions in the engaging holes when the cover is closed relative to the base assembly.
17. The cosmetic casing assembly as claimed in claim 1, wherein the cover further has a mirror mounted on the cover.
18. The cosmetic casing assembly as claimed in claim 1, wherein the resilient member is made of silicon gel.