US00RE49688E

(19) **United States**
(12) **Reissued Patent**
Lin

(10) **Patent Number: US RE49,688 E**
(45) **Date of Reissued Patent: Oct. 10, 2023**

(54) **CLIP COVER FOR C-TYPE LIGHT STRING**

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(21) Appl. No.: **16/974,027**

(22) Filed: **Sep. 14, 2020**

Related U.S. Patent Documents

Reissue of:
(64) Patent No.: **10,100,986**
Issued: **Oct. 16, 2018**
Appl. No.: **14/845,288**
Filed: **Sep. 4, 2015**

(51) **Int. Cl.**
F21S 4/10 (2016.01)
F21V 21/00 (2006.01)
F21V 23/00 (2015.01)
F21V 27/00 (2006.01)

(52) **U.S. Cl.**
CPC ***F21S 4/10*** (2016.01); ***F21V 23/002*** (2013.01); ***F21V 27/00*** (2013.01)

(58) **Field of Classification Search**
CPC F21V 27/00; F21V 23/002; F21S 4/10
See application file for complete search history.

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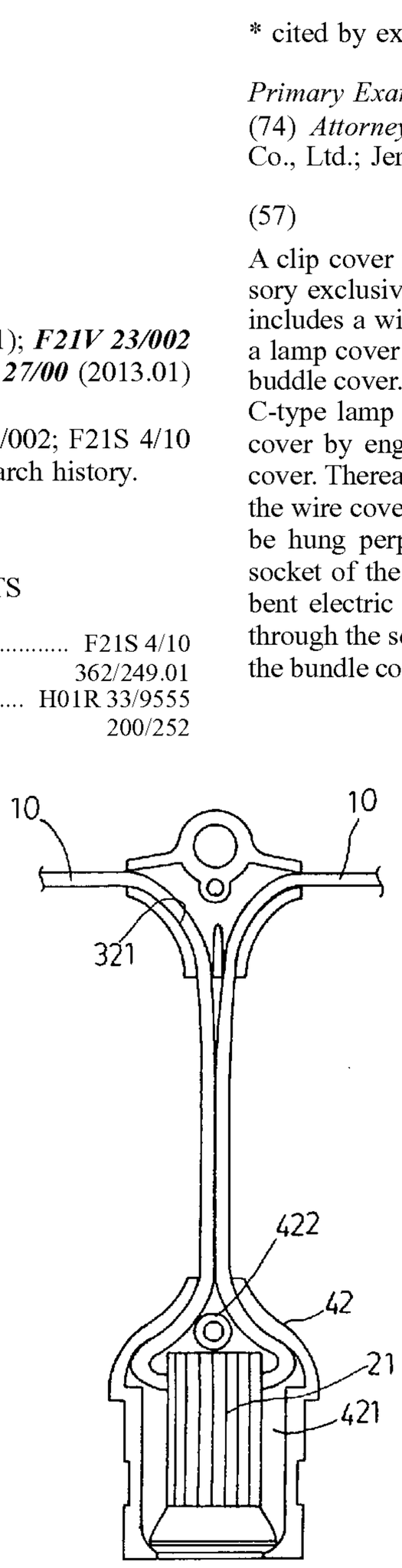
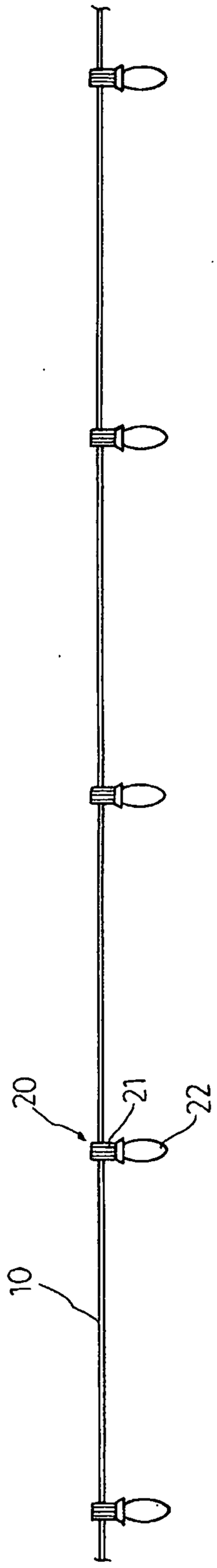
(57) **ABSTRACT**

A clip cover for a C-type light string is an auxiliary accessory exclusively used for a C-type light string, and mainly includes a wire cover constituted by first front, rear covers, a lamp cover constituted by second front, rear covers and a buddle cover. Electric wire segments at the two sides of one C-type lamp of the light string are clipped inside the wire cover by engaging the first front cover with the first rear cover. Thereafter, the electric wire is pulled downward from the wire cover a certain length, allowing the C-type lamp to be hung perpendicularly below the wire cover; the lamp socket of the C-type lamp together with a small section of bent electric wire is further clipped inside the lamp cover through the second front, rear covers of the lamp cover; and the bundle cover is finally put around the lamp cover tightly.

12 Claims, 4 Drawing Sheets





PRIOR ART
FIG. 1

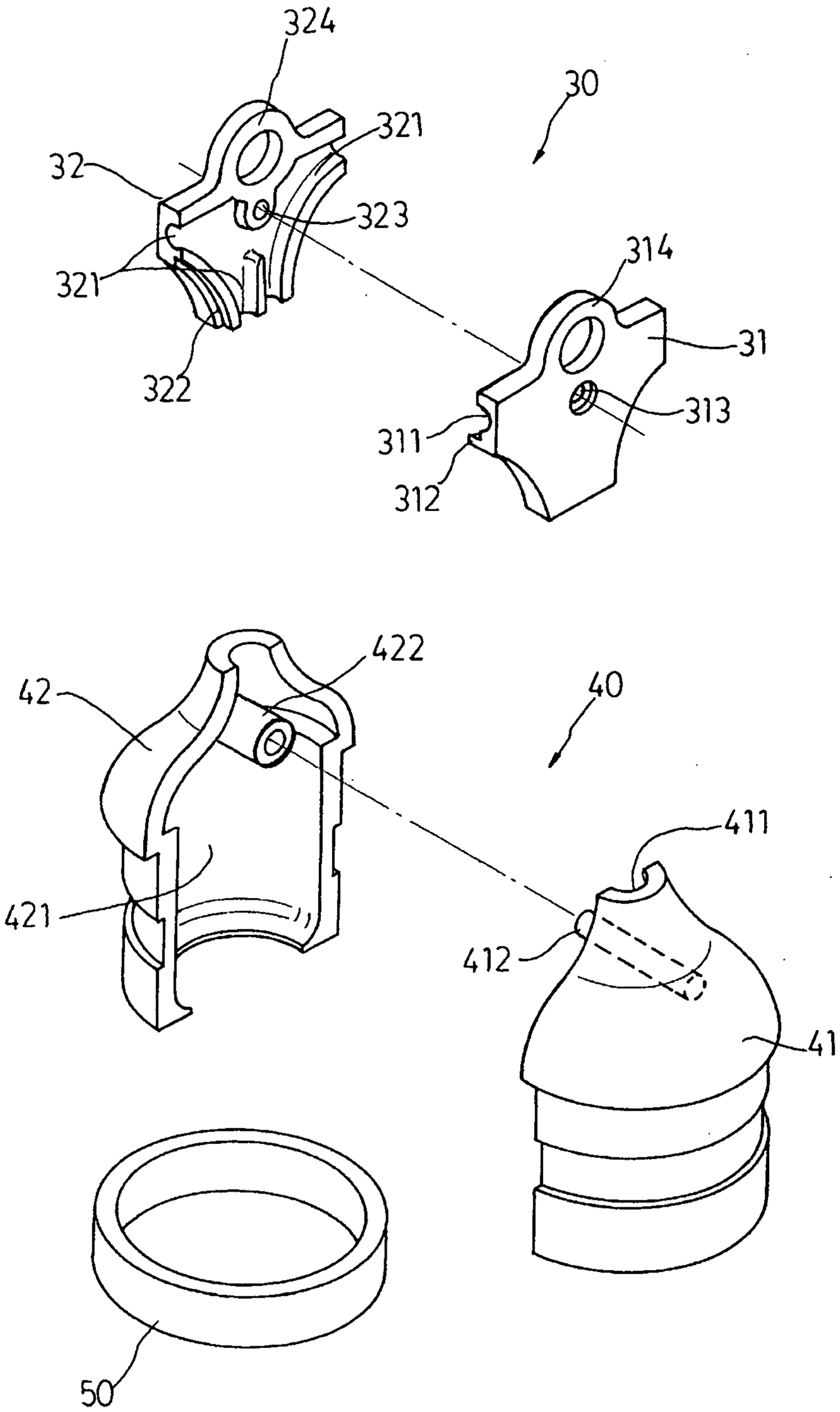

324
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FIG. 2

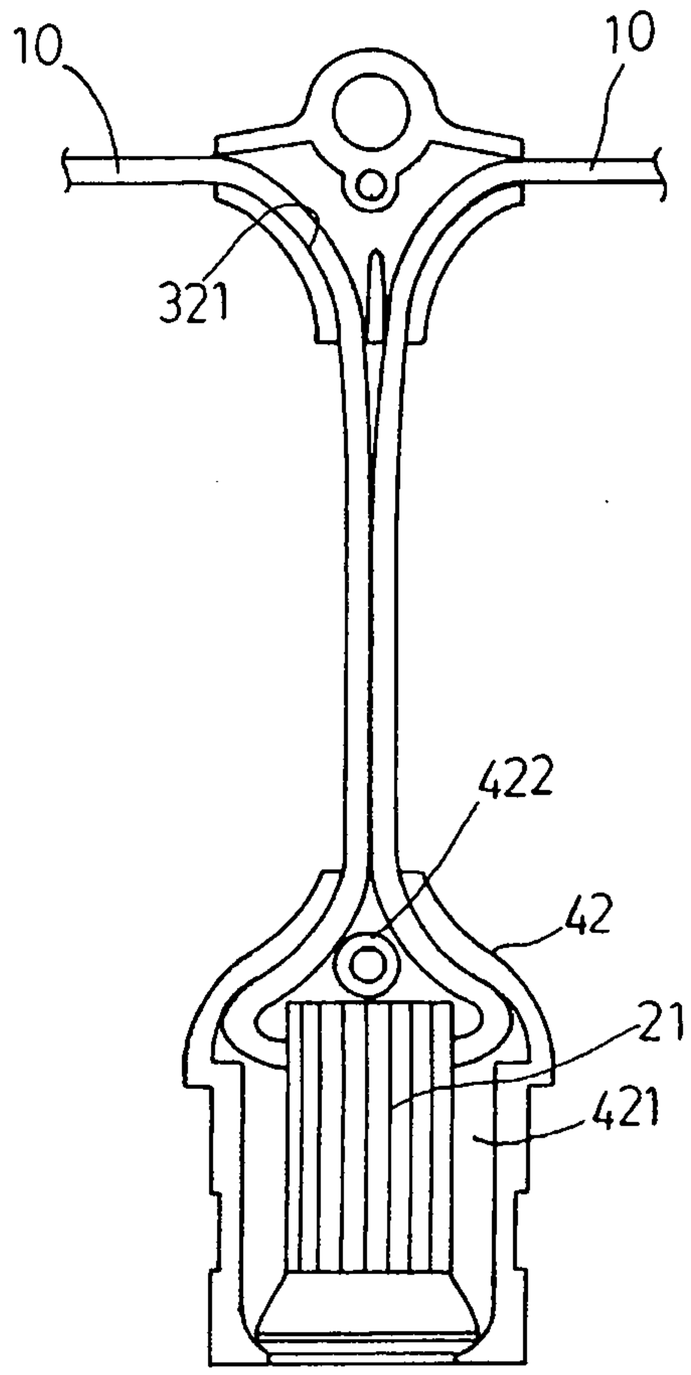

FIG. 3

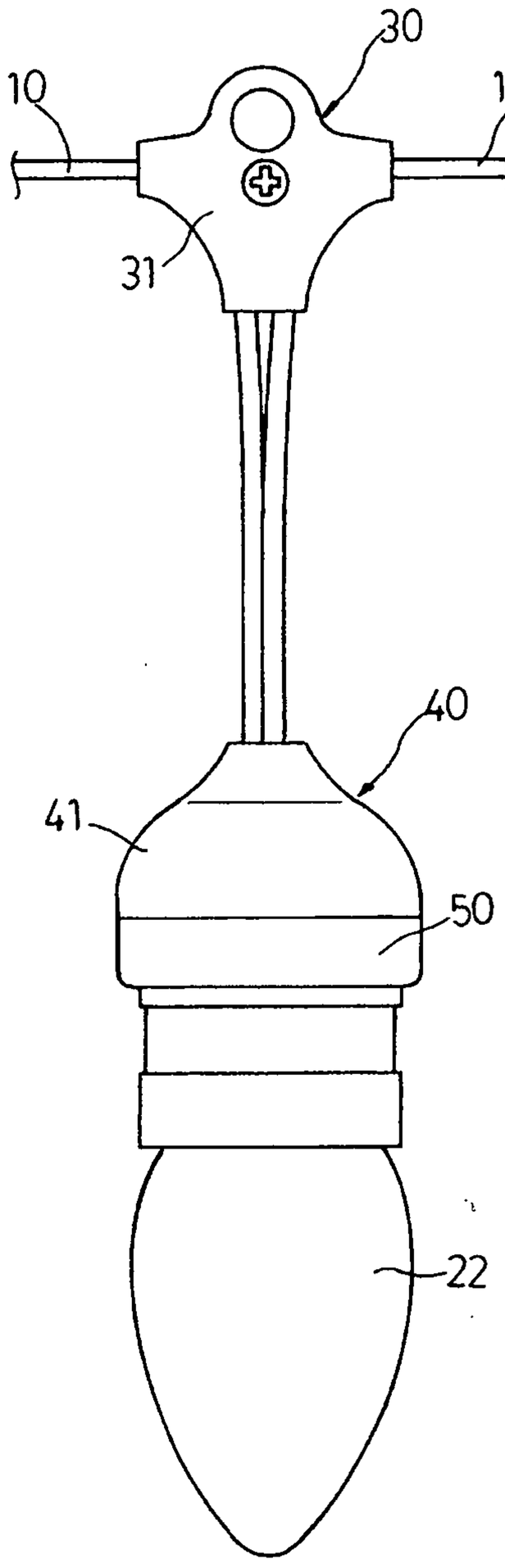

FIG. 4

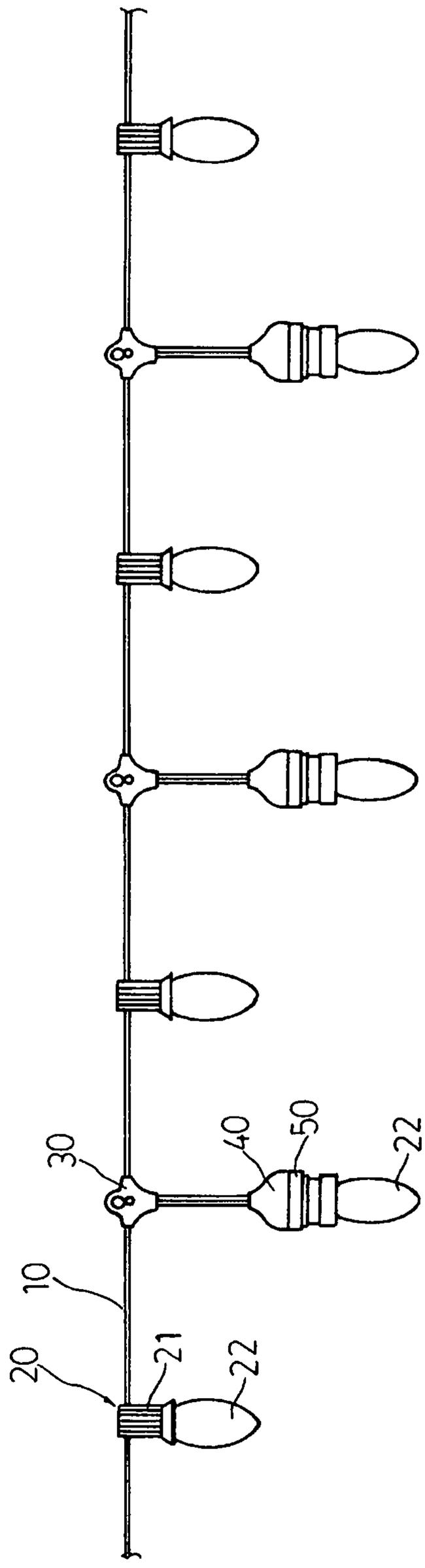

FIG. 5

CLIP COVER FOR C-TYPE LIGHT STRING

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue; a claim printed with strikethrough indicates that the claim was canceled, disclaimed, or held invalid by a prior post-patent action or proceeding.

(a) TECHNICAL FIELD OF THE INVENTION

The present invention relates to a coordinate component structure for a Christmas light strung, and more particularly to a clip cover component exclusively used for a C-type Christmas light string.

(b) DESCRIPTION OF THE PRIOR ART

General C-type light strings, as FIG. **1** shows, are formed by connecting a plurality of C-type lamps **20**, each of which is composed of a lamp socket **21** and a lamp bulb **22** and separated from another with a distance, to a long electric wire **10**. When the c-type light string is hung, all the C-type lamps **20** on the light string are at the same height. As such, the light string arranged in this way is somewhat monotonic and dull, and thus, cannot be used multi-functionally.

SUMMARY OF THE INVENTION

A clip cover for a C-type light string according to the present invention is an auxiliary accessory exclusively used for a C-type light string, and mainly includes a wire cover constituted by first front, rear covers, a lamp cover constituted by second front, rear covers, and a buddle covet Electric wire segments at the two sides of one C-type lamp of the light string are clipped inside the wire cover by engaging the first front cover with the first rear cover. Thereafter, the electric wire is pulled downward from the wire cover a certain length, allowing the C-type lamp to be hung perpendicularly under the wire cover; next, the lamp socket of the C-type lamp together with a small section of bent electric wire is further clipped inside the lamp cover through the second front, rear covers of the lamp cover; and the bundle cover is finally put around the lamp cover tightly. Whereby, the clip cover structure allows some C-type lamps on a C-type light string to be hung perpendicularly at different heights, thereby varying the monotonic C-type light string to become a curtain-like light string, and thereby to add a multiple use performance to the C-type light string.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. **1** is a schematic view of a conventional C-type light string;

FIG. **2** is an exploded view of a clip cover structure according to the present invention;

FIG. **3** is a schematic view of a structure configuration pattern of the implementation of the clip cover of the present invention on a C-type light string;

FIG. **4** is a schematic view of an appearance pattern of the clip cover of the present invention while being implemented on a C-type light string; and

FIG. **5** is a schematic view of a configuration pattern of the implementation of the clip cover of the present invention on a C-type light string

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

The present invention provides a clip cover structure for a C-type light string, which is an auxiliary accessory exclusively used for the C-type light string. Referring to FIG. **2**, the clip cover mainly includes a wire cover **30**, a lamp cover **40** and a bundle cover **50**, wherein the wire cover **30** is constituted by a first front cover **31** and first rear cover **32**, on the top ends of which a hook ring **314**, **324** is respectively formed. Furthermore, two curved wire grooves **311**, **321** which is inclined downward and toward the center from the two sides are respectively formed on the positions of the front cover **31** and rear cover **32** corresponding to each other, wherein a flange **312** is formed on each outer side of the wire groove **311** of the front cover **31**, and a notch **322** is then formed on each outer side of the wire groove **321** of the rear cover **32**. Furthermore, a through hole **313**, **323** is respectively configured at the positions of the centers of the first front cover **31** and first rear cover **32** corresponding to each other. The lamp cover is constituted by semicircular second front cover **41** and semicircular second rear cover **42**, where an accepting space **411**, **421** with a smaller opening at the top and larger opening at the bottom is respectively defined inside the second front cover **41** and second rear cover **42**, where a positioning rod **412** is formed on the accepting space **411** of the second front cover **41**, and a positioning seat **422** corresponding to the positioning rod **412** is formed on the accepting space **421** of the second rear cover **42**. Furthermore, the bundle cover **50** is a circular collar with an inner diameter slightly larger than the outer diameter of the bottom of the lamp cover **40**.

Referring to FIGS. **2** to **5**, the clip cover of the present invention is applied to a light string constituted by combining an electric wire **10** with a plurality of C-type lamp **20** in series; the segments of the electric wire **10** at the left, right sides of one of the C-type lamps **20** of the light string are respectively placed into the wire groove **321** of the first rear cover **32**, and the first front cover **31** is then covered with the rear cover **32** together, allowing the first front cover **32** to be joined and fixed to the first rear cover **32** by engaging the flanges **312** with the corresponding notches **322** in such a way to clip the segments of the electric **10** inside the wire grooves **311**, **321** of the first front cover **31** and first rear cover **32** of the wire cover **30**. Thereafter, the electric wire **10** is pulled down below the wire cover **30** a certain length, allowing the C-type lamp **20** to be hung perpendicularly below the wire cover **30**. Next, the first front cover **31** and first rear cover **32** are locked together and the wire **10** thus is clamped tightly by passing a bolt through the through holes **313**, **323** and then engaged with a nut. Furthermore, the lamp socket **21** of the C-type lamp **20** together with a small section of bent electric wire **10** is placed inside the accepting space **421** of the second rear cover **42**, and the second front cover **41** is then jointed with the rear cover **42**, allowing the lamp socket **21** of the C-type lamp **20** together with the small section of bent electric wire **10** to be clipped inside the lamp cover **40**. Furthermore, the bundle cover **50** is put around the lamp cover **40** tightly, allowing the front cover **41** to be engaged with the rear cover **42** firmly. Finally, the lamp bulb **22** is placed in from the bottom face of the lamp cover **40** to engage with the lamp socket **21**. Thereupon, several lamps hung perpendicularly downward can be configured on a monotonic C-type light string through the clip cover structure mentioned above, allowing the light

string to be formed into a curtain-like light string so as to enable the C-type light string to have multiple use performance.

I claim:

1. A **[**clip cover structure for a**]** light string *cover structure*, comprising a wire cover **[**constituted by**]** *having* first front and rear covers, a lamp cover **[**constituted by**]** *having* second front and rear covers that are semicircular and an annular bundle cover, and combined with an electric wire configured with a plurality of lamp sockets and lamp bulbs, the lamp bulbs being respectively combined with the lamp sockets to form bulb-socket assemblies to each of which segments of the electric wire **[**are**]** connected at two sides thereof, wherein portions of the segments of the electric wire that are distant from the bulb-socket assembly are **[**clipped**]** *contained* inside said wire cover to allow the segments of said electric wire to be pulled away from said wire cover a certain length, allowing the bulb-socket assembly to be set at a distance from said wire cover; *wherein* said lamp socket of the bulb-socket assembly and a section of each of segments of the electric wire that are adjacent to and directly connected to the lamp socket are further **[**covered, clipped and fixed**]** *contained* inside said lamp cover through said second front and rear covers of said lamp cover tightly;

wherein the lamp cover **[**comprises**]** *includes* an interior forming an accepting space in which the lamp socket and the sections of the segments of the electric wire that are directly connected to the lamp socket are received and retained, *wherein* the interior **[**comprising**]** *includes* a lower chamber that receives the lamp socket therein and a second chamber that receives the sections of the segments of the electric wire that are directly connected to the lamp socket therein, wherein the second chamber **[**is larger in size**]** *has a diameter larger* than *a diameter of* the lower chamber in order to accommodate a bending of each of the sections of the segments of the electric wire; and

wherein the second front and rear covers of the lamp cover are combinable to define, therebetween, the accepting space of the lamp cover, which has a first opening in a top of the lamp cover and a second opening, which is larger than the first opening and is formed in a bottom of the lamp cover, the first and second openings being in communication with the accepting space; *wherein* a positioning rod is formed at a position of said accepting space of said second front cover close to a top thereof, and a positioning seat at a position of said accepting space of said second rear cover corresponding to said positioning rod; *wherein* said lamp socket of the sections of the segments of the electric wire are received and retained in said accepting space by means of said second front cover being **[**covered**]** *engaged* with said second rear cover such that said lamp **[**socked**]** *socket* of the bulb-socket assembly and the sections of the segments of the electric wire that are directly connected to the lamp socket are covered **[**and clipped**]** inside said lamp cover by engaging said positioning rod with said positioning seat.

2. The structure according to claim **1**, wherein **[**said wire cover is constituted by said first front and rear covers,**]** a curved wire groove**[**s**]** inclined downward and toward the center from the two sides is respectively formed at positions of said first front cover and first rear cover corresponding to each other; *wherein* a flange is formed on each outer side of said wire groove of said first front cover, and a notch *is formed on* each outer side of said wire grove of said first rear cover; *wherein* a through hole is respectively configured at positions of the centers of said first front and rear covers corresponding to each other; *wherein* the segments of the electric wire that are connected to the lamp socket at the two sides of the bulb-socket assembly are respectively placed in said wire groove of said first rear cover, and said first front cover is covered with said first rear cover together, allowing said first cover to be joined and fixed to said first rear cover by engaging said flanges with said corresponding notches to cover and clip the segments of the electric wire inside said wire grooves of said first front and rear covers; and *wherein* said first front cover and first rear covers are locked together by passing a bolt through said through holes to be engaged with a nut.

3. The structure according to claim **2**, wherein a hook ring is respectively formed on top ends of said first front cover and first rear cover of said wire cover.

4. The structure according to claim **1**, wherein said bundle cover is a circular collar with an inner diameter slightly larger than an outer diameter of a bottom of said lamp cover, said bundle cover is put around said lamp cover tightly after said second rear cover is covered with said second front cover together, allowing said second front cover to be engaged with said second rear cover firmly, and said lamp bulb is finally placed in the accepting space from a bottom face of said lamp cover and engaged with said lamp socket.

5. A light string cover structure, comprising:

a wire cover having a first front cover and a first rear cover defining a first accepting space therebetween; and

a lamp cover having a second front cover and a second rear cover defining a second accepting space therebetween to contain a lamp socket and a first segment of at least two electric wires directly connected to said lamp socket,

wherein said second front and rear covers form a top opening of said lamp cover to allow a second segment of said at least two electric wires to extend outside of said lamp cover,

wherein said second segment of said at least two electric wires is distant from said first segment of said at least two electric wires and contained in said first accepting space of said wire cover, and wherein a positioning rod is formed near a top side of said second front cover within said second accepting space, and a positioning seat is formed at a position corresponding to said positioning rod on said second rear cover within said second accepting space such that engaging said positioning rod and said positioning seat allows said lamp socket and said first segment of said at least two electric wires to be contained in said lamp cover.

6. A light string cover structure, comprising:

a lamp cover covering a lamp socket and a first segment of at least two electric wires directly connected to said lamp socket; and

a wire cover covering a second segment of said at least two electric wires, wherein said second segment is configurable to move in and out of said wire cover such that said wire cover is positioned at an adjustable distance from said lamp cover and wherein a positioning seat is formed near a top side of said lamp cover to position said first segment of said at least two electric wire within said lamp cover, and wherein said lamp cover includes a front cover and a rear cover, and wherein said positioning seat is formed on said rear cover and a positioning rod is formed on said front

cover such that when said positioning rod is placed inside said positioning seat said front cover is engaged with said rear cover.

7. The structure according to claim 6, wherein said front cover and said rear cover forms a top opening of said lamp cover to allow said second segment of said at least two electric wires to extend outside of said lamp cover.

8. The structure according to claim 6, further comprising a securing mechanism configurable to form on said lamp cover to tighten said engagement of said front and rear covers.

9. The structure according to claim 6, wherein said front and rear covers further form a bottom opening of said lamp cover to allow a lamp bulb to be connected to said lamp socket.

10. The structure according to claim 6, wherein said front and rear cover defines an accepting space with a first chamber and a second chamber, wherein said first chamber receives said lamp socket, and said second chamber receives said first segment of said at least two electric wires, and wherein said second chamber allows said first segment of said at least two electric wires to be bent therewithin.

11. The structure according to claim 10, wherein said first chamber has a diameter smaller than a diameter of said second chamber.

12. The structure according to claim 10, wherein said first chamber has a diameter larger than a diameter of said second chamber at the point where said first segment of said at least two electric wires enters the second chamber.

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