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(54) **CONNECTOR COVER MODULE AND COVER BODY**

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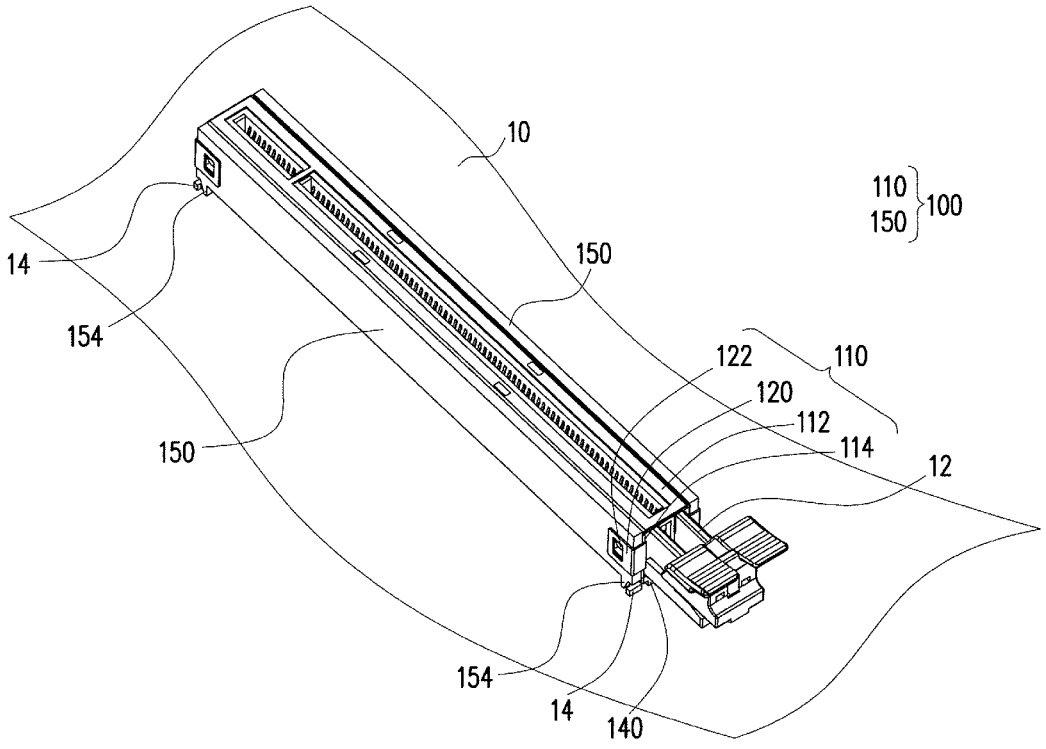
CPC ***H01R 13/7172*** (2013.01); ***H01R 12/716*** (2013.01)

(57) **ABSTRACT**

A connector cover module adapted to be disposed on a connector on a mother board is provided. The connector cover module includes a cover body and at least one light guide bar. The cover body includes a top surface, a plurality of lateral surfaces, and at least one arm extending from one of the lateral surfaces and bending outward to form an accommodating groove. The light guide bar is disposed beside one of the lateral surfaces, held by the arms, and located in the accommodating groove bent and formed by the arms. A cover body is further provided.



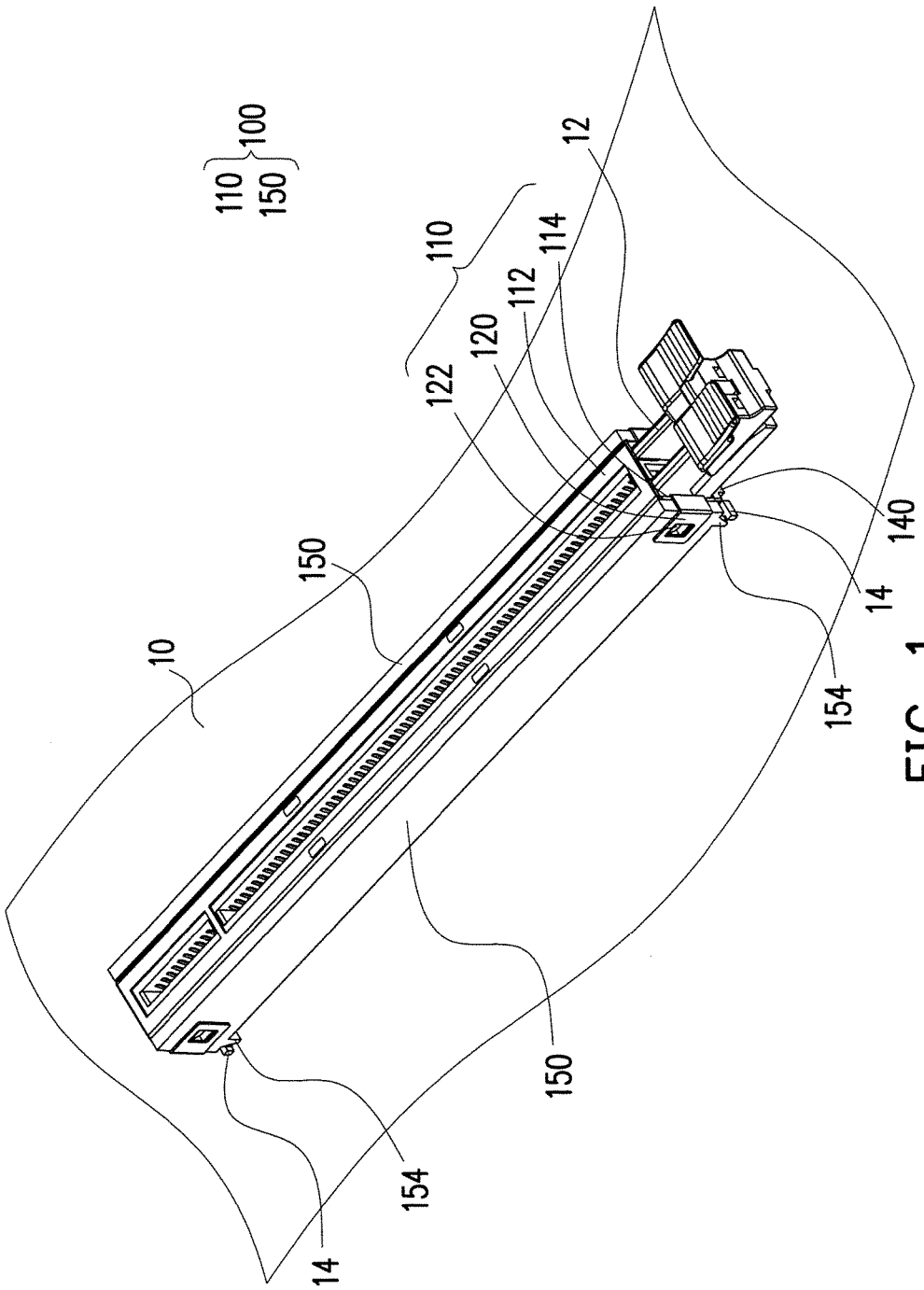


FIG. 1

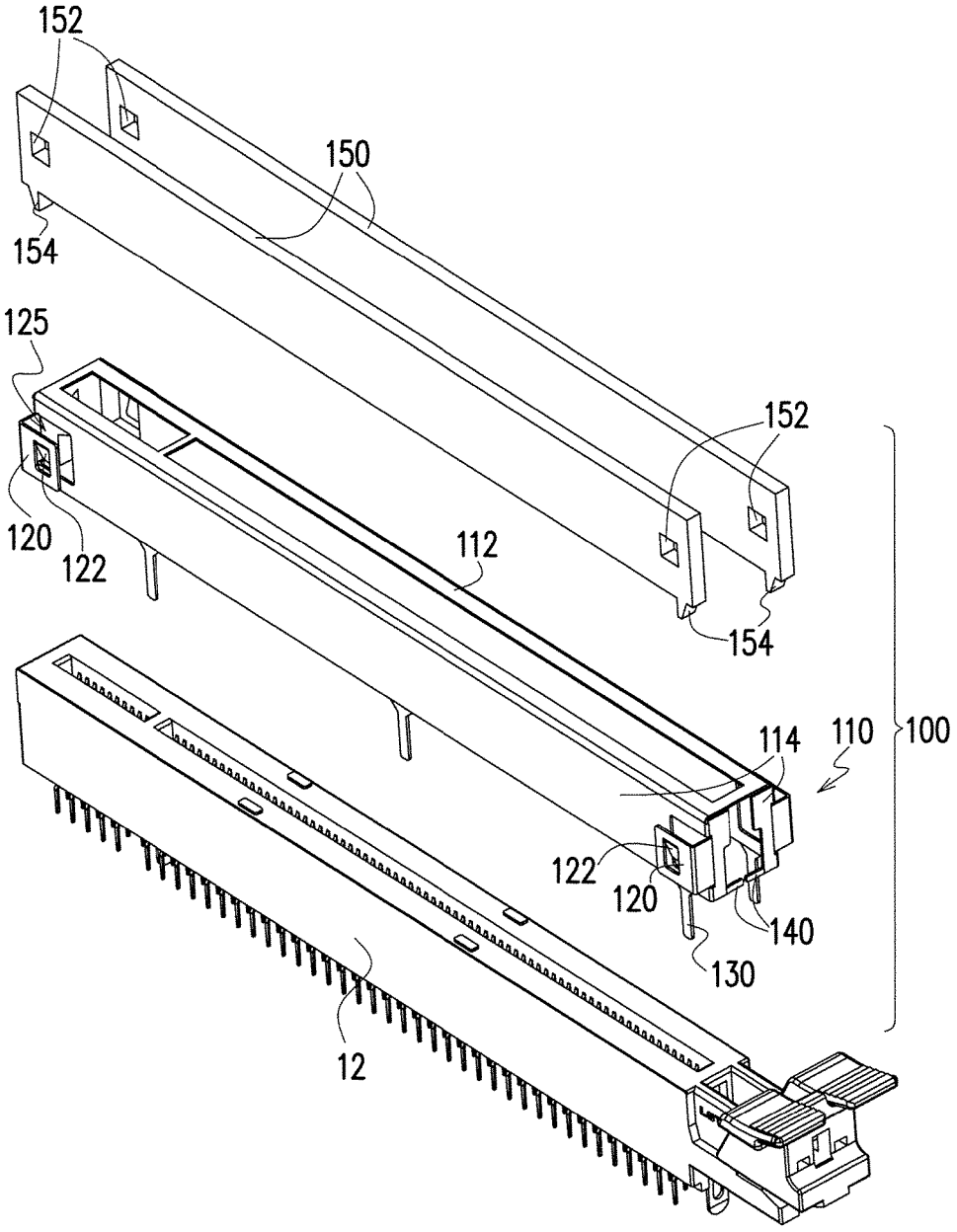

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FIG. 2

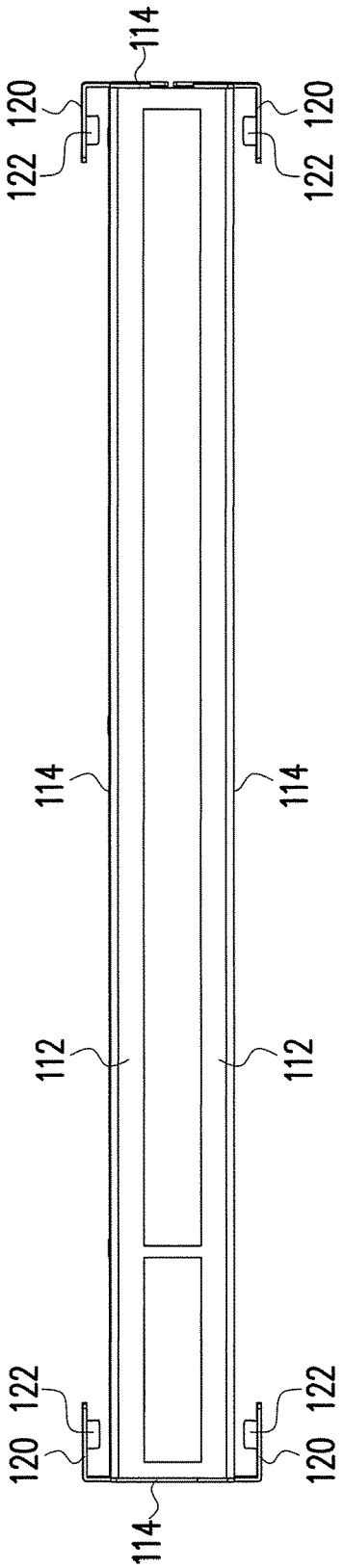

FIG. 3

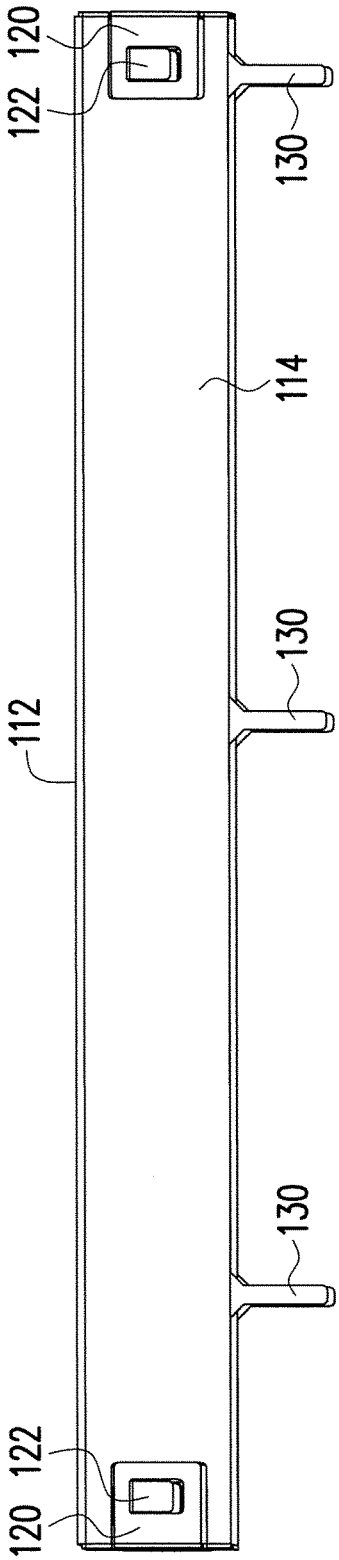

FIG. 4

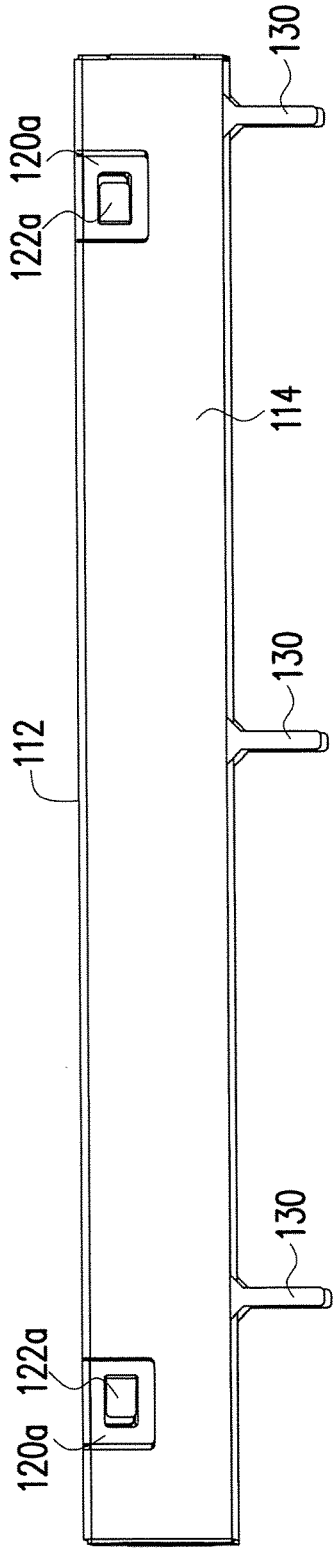

FIG. 5

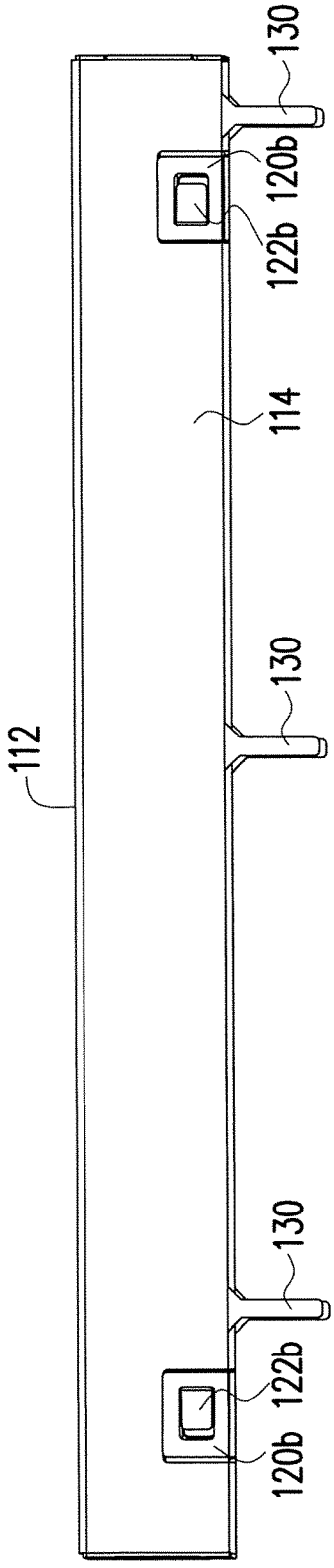

FIG. 6

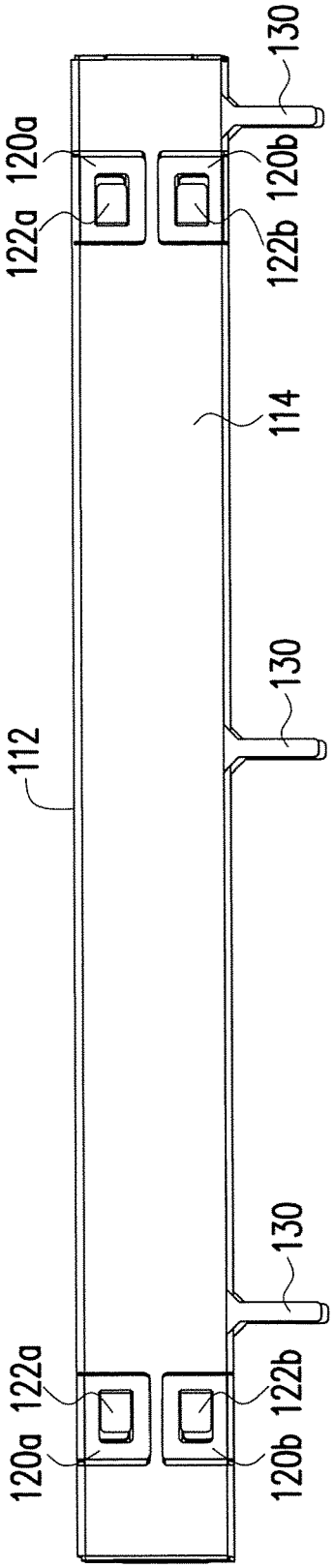

FIG. 7

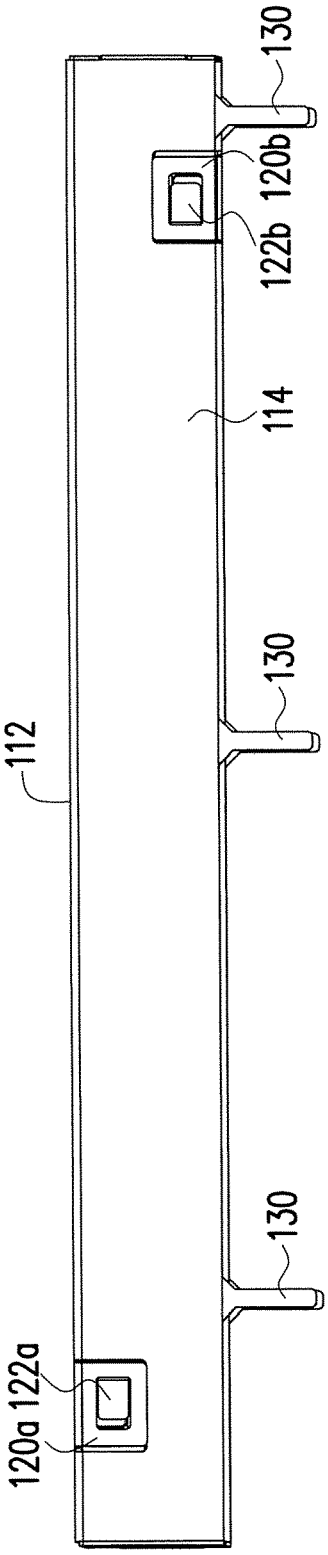

FIG. 8

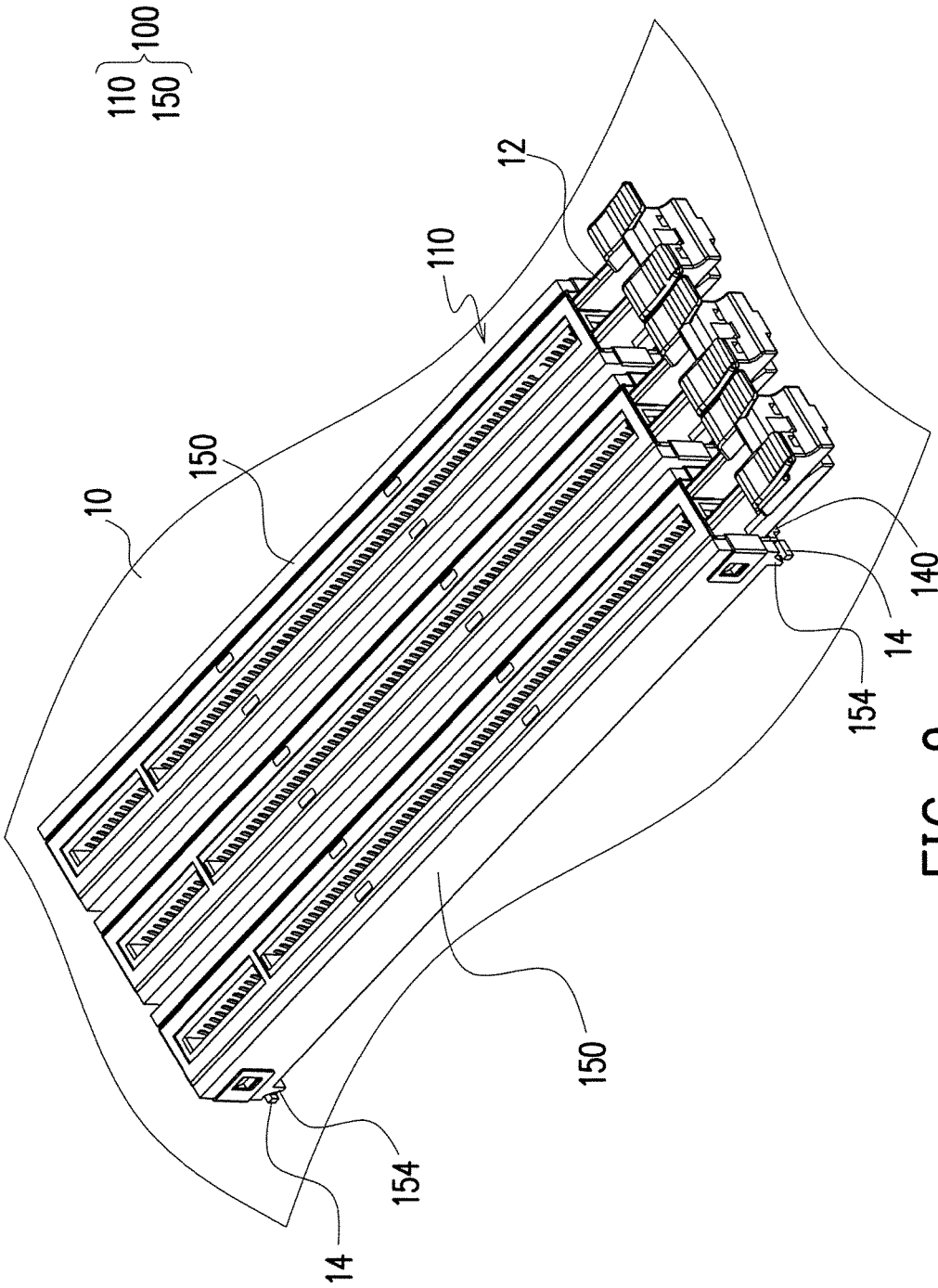

FIG. 9

CONNECTOR COVER MODULE AND COVER BODY

ROSS-REFERENCE TO RELATED APPLICATION

[0001] This application claims the priority benefit of Taiwan application serial no. 106111498, filed on Apr. 6, 2017. The entirety of the above-mentioned patent application is hereby incorporated by reference herein and made a part of this specification.

BACKGROUND OF THE INVENTION

Field of the Invention

[0002] The invention relates to a cover module and a cover body, and in particular, a connector cover module and a cover body.

Description of Related Art

[0003] As technology advances, users' demands are becoming more and more diversified. To enable a mother board to provide effects such as light indication, a light source such as an LED is disposed on the mother board. However, a wiring area on the mother board is limited, and it is not always possible to dispose the LED wherever light emission is desired. One of the goals to explore in the field is how to dispose a structure providing light emission in a large area at specific positions (e.g., beside a connector) on the mother board. Moreover, currently for certain connectors (a PCI-E connector, for example) on the mother board, since the inserted expansion card may be disposed with a fan or other components on one side and may be unevenly weighted, the connectors may crack easily.

SUMMARY OF THE INVENTION

[0004] The invention provides a connector cover module that functions with one or more LEDs for light transmission in a large area and enhances structural strength of a covered connector.

[0005] The invention provides a cover body that fixes a light guide bar to enable the light guide bar to transmit light in a large area and enhances the structural strength of the covered connector.

[0006] The invention provides a connector cover module adapted to be disposed on a connector on a mother board. The connector cover module includes a cover body and at least one light guide bar. The cover body includes a top surface, a plurality of lateral surfaces, and at least one arm, wherein the at least one aim extends from one of the lateral surfaces and bends outward to form an accommodating groove. The light guide bar is located beside one of the lateral surfaces, held by the corresponding arms, and located in the accommodating groove bent and formed by the arms.

[0007] In an embodiment of the invention, the at least one arm includes a plurality of the arms. The arms are respectively located on two opposite sides of one of the lateral surfaces and correspond to each other. The arms respectively extend toward an opposite direction to collectively bend and form the accommodating groove.

[0008] In an embodiment of the invention, the at least one arm includes a plurality of the arms. The arms are respectively located on two opposite sides of one of the lateral surfaces and are misaligned from each other. The arms respectively extend toward an opposite direction to collectively bend and form the accommodating groove.

[0009] In an embodiment of the invention, the at least one arm includes a plurality of the arms. The arms are aligned on an edge of one of the lateral surfaces in a length direction and extend in a same direction to collectively bend and form the accommodating groove.

[0010] In an embodiment of the invention, the at least one arm includes a plurality of the arms. The arms respectively protrude from two opposite lateral surfaces of the lateral surfaces and bend and form two accommodating grooves located outside the two lateral surfaces. The at least one light guide bar includes two light guide bars. The two light guide bars are held by the arms and are located in the two accommodating grooves.

[0011] In an embodiment of the invention, the light guide bar is in a plate shape and has a greater length in two opposite lateral surfaces of the lateral surfaces. One lateral surface of the light guide bar having a greater length is only covered by the arm, when the light guide bar is located in the accommodating groove.

[0012] In an embodiment of the invention, each of the arms includes a first fixing part. Each of the light guide bars includes a second fixing part corresponding to the first fixing part. One of the first fixing part and the second fixing part is a recess or a through-hole, and the other one is a bending elastic piece or a bump.

[0013] In an embodiment of the invention, the cover body includes a fixing leg extending from one of the lateral surfaces to a direction away from the top surface, and the fixing leg is adapted to be fixed to the mother board.

[0014] In an embodiment of the invention, the cover body includes a bending leg that is located on an edge of one of the lateral surfaces away from the top surface and is adapted to bend to below a bottom surface of the connector.

[0015] In an embodiment of the invention, each of the light guide bars includes an inclined light incident part adapted to be adjacently disposed beside a light source of the mother board such that light emitted by the light source enters the light guide bar via the light incident part.

[0016] The invention provides a cover body of the above-described connector cover module.

[0017] In light of the above, in the connector cover module of the invention, the arms extending from the lateral surface bend to form the accommodating groove to accommodate and hold the light guide bar. Since only a small portion of the light guide bar is covered by the arms and the other portions are exposed, the effect of transmitting light in a large area is achieved. Moreover, the cover body of the connector cover module of the invention is disposed on the connector, which effectively enhances the structural strength of the connector. Furthermore, since part of the connectors are aligned on the mother board, if the plurality of the connector cover modules are disposed on the connectors, the light guide bars disposed beside the lateral surfaces of the cover body fill in between the adjacent connectors, which also enhances the strength of the connectors and reduces the rate of cracking of the connectors.

[0018] To provide a further understanding of the aforementioned and other features and advantages of the invention, exemplary embodiments, together with the reference drawings, are described in detail below.

BRIEF DESCRIPTION OF THE DRAWINGS

[0019] FIG. **1** is a schematic diagram illustrating a connector cover module disposed on a connector according to an embodiment of the invention.

[0020] FIG. **2** is an exploded schematic diagram illustrating the connector cover module and the connector of FIG. **1**.

[0021] FIG. **3** is a top schematic diagram illustrating a cover body of the connector cover module of FIG. **1**.

[0022] FIG. **4** is a side schematic diagram illustrating the cover body of the connector cover module of FIG. **1**.

[0023] FIG. **5** to FIG. **8** are respectively side schematic diagrams illustrating cover bodies of various connector cover modules according to a plurality of embodiments of the invention.

[0024] FIG. **9** is a schematic diagram illustrating a plurality of the connector cover modules and the connectors of FIG. **1**.

DESCRIPTION OF THE EMBODIMENTS

[0025] FIG. **1** is a schematic diagram illustrating a connector cover module disposed on a connector according to an embodiment of the invention. FIG. **2** is an exploded schematic diagram illustrating the connector cover module and the connector of FIG. **1**. FIG. **3** is a top schematic diagram illustrating a cover body of the connector cover module of FIG. **1**. FIG. **4** is a side schematic diagram illustrating the cover body of the connector cover module of FIG. **1**.

[0026] Referring to FIG. **1** first, a connector cover module **100** of the present embodiment is adapted to be disposed on a connector **12** located on a mother board **10**. In the present embodiment, the connector **12** is, for example, a PCI-E connector **12**. However, the type of the connector **12** is not limited hereto. The connector cover module **100** of the present embodiment provides a light guide bar **150** that is light-transmitting in a large area on at least one side beside the connector **12** to provide a large-area light-emitting indication or esthetic effect on the condition that the light guide bar **150** is securely fixed.

[0027] Referring to FIG. **1** to FIG. **4**, the connector cover module **100** of the present embodiment includes a cover body **110** and at least one light guide bar **150**. The cover body **110** includes a top surface **112**, a plurality of lateral surfaces **114**, and at least one arm **120**, wherein each arm **120** extends from one of the lateral surfaces **114** and bends outward to form an accommodating groove **125**. As FIG. **2** shows, in the present embodiment, the cover body **110** includes four lateral surfaces **114**, wherein two opposite lateral surfaces **114** have a greater length, and the other two opposite lateral surfaces **114** have a smaller length. Moreover, the cover body **110** includes four arms **120**. The four arms **120** respectively extend from the two lateral surfaces **114** having the smaller length and turn to extend in a direction parallel with the lateral surfaces **114** having the greater length, such that each aim **120** is in an L shape.

[0028] In other words, as FIG. **3** shows, the four arms **120** respectively protrude from the two lateral surfaces **114** having the greater length and bend to form two accommodating grooves **125** outside the two lateral surfaces **114**. In addition, as FIG. **4** shows, the two arms **120** beside the same lateral surface **114** are respectively located on two opposite sides of the lateral surface **114** and correspond to each other, and extend toward an opposite direction to collectively bend and form the accommodating grooves **125** (labeled in FIG. **2**).

[0029] Referring to FIG. **1** again, in the present embodiment, the light guide bar **150** is in a plate shape, and a dimension of the light guide bar **150** approximates a dimension of the lateral surface **114** adjacent to it. However, the shape and the dimension of the light guide bar **150** are not limited hereto. The connector cover module **100** includes two light guide bars **150**. The two light guide bars **150** are respectively located outside the two opposite lateral surfaces **114** and are located in the two accommodating grooves **125** bent by the arms **120**.

[0030] As FIG. **1** clearly shows, the two arms **120** beside the same lateral surface **114** are respectively located on the two opposite sides of the lateral surface **114** and extend toward a direction of each other (i.e., a left or right direction). Therefore, when the light guide bar **150** is located in the accommodating groove **125**, the light guide bar **150** is confined in the left and right directions by the arms **120** on the two sides. In other words, the light guide bar **150** is unable to move in the left and right directions relative to the cover body **110**. Moreover, the light guide bar **150** is also confined in forward and backward directions by the arms **120** and the lateral surface **114** and is unable to move in the forward and backward directions relative to the cover body **110**.

[0031] In addition, as FIG. **2** shows, in the present embodiment, each arm **120** includes a first fixing part **122**, and each light guide bar **150** includes a second fixing part **152** corresponding to the first fixing part **122**. More specifically, in the present embodiment, the first fixing part **122** is a bending elastic piece, and the second fixing part **152** is a through-hole. In the present embodiment, the first fixing part **122** is connected to the arm **120** on an upper side and is suspending on a lower side. Moreover, the first fixing part **122** bends toward the lateral surface **114**. When the light guide bar **150** is assembled to the cover body **110**, one only needs to insert the light guide bar **150** downward from above into the accommodating groove **125**, and the first fixing part **122** is first pushed by light guide bar **150** outward in a direction away from the lateral surface **114**. As the second fixing part **152** of the light guide bar **150** moves to a position corresponding to the first fixing part **122** of the arm **120**, the first fixing part **122** of the arm **120** restores its original configuration, reaches into the second fixing part **152**, and fits against an inner wall of the through-hole so as to fix the light guide bar **150** to the cover body **110** in at least one direction.

[0032] In the present embodiment, the first fixing part **122** reaches into the second fixing part **152** and leans against a lower wall of the through-hole. Therefore, the light guide bar **150** is held by the corresponding arms **120** and does not move upward relative to the cover body **110**. Moreover, the first fixing part **122** is also confined by left and right walls of the through-hole and does not move leftward or rightward relative to the cover body **110**. In addition, as FIG. **1** shows, the connector cover module **100** rests on the mother board **10**. Therefore, the light guide bar **150** and the cover body **110** are both supported by the mother board **10**. The light guide bar **150** is unable to move downward relative to the cover body **110**.

[0033] In other words, in the present embodiment, the light guide bar **150** is confined in all of the upward,

downward, leftward, rightward, forward, and backward directions relative to the cover body **110**, such that the light guide bar **150** is securely fixed on the cover body **110**. Of course, the types of the first fixing part **122** and the second fixing part **152** are not limited hereto. In other embodiments, one of the first fixing part **122** and the second fixing part **152** is a recess or a through-hole, and the other is a bending elastic piece or a bump, as long as the two components can fix together.

[0034] In the present embodiment, the accommodating groove **125** used to accommodate the light guide bar **150** is formed by bending the arms **120** and confines the light guide bar **150** by the arms **120** so that the light guide bar **150** does not move leftward, rightward, forward, backward, and upward. An area of the arm **120** is small; as FIG. **4** shows, a projection area of the arm **120** on the lateral surface **114** having the greater length is only a small portion of an area of the lateral surface **114** (e.g., less than 10% of the area of the lateral surface **114**). Therefore, when the light guide bar **150** is located in the accommodating groove **125**, a lateral surface of the light guide bar **150** having the second fixing part **152** is only covered by the arm **120** and, as FIG. **1** shows, most of the area is exposed. In other words, the light guide bar **150** of the connector cover module **100** of the present embodiment is light-transmitting in a large area.

[0035] In the present embodiment, each light guide bar **150** includes at least one light incident part **154**, which is inclined. As FIG. **1** shows, each light guide bar **150** includes two inclined light incident parts **154** respectively at a bottom close to the two sides. The two light incident parts **154** are respectively located beside two light sources **14** of the mother board **10**, such that light emitted by the light sources **14** enters the light guide bar **150** via the light incident parts **154**, and light is emitted from the light guide bar **150** in a large area. The inclined light incident parts **154** increase a light incident area and effectively guide in more light. In the present embodiment, the light source **14** is, for example, an LED. However, the type of the light source **14** is not limited hereto.

[0036] As FIG. **2** shows, the cover body **110** includes at least one fixing leg **130** extending from one of the lateral surfaces **114** to a direction away from the top surface **112**. The fixing leg **130** is adapted to be fixed to the mother board **10**. In the present embodiment, the cover body **110** includes six fixing legs **130**. However, the number of the fixing legs **130** is not limited hereto. In the present embodiment, the fixing leg **130** is fixed to the mother board **10** through reflow soldering. The fixing leg **130** may be further connected to a grounding end of the mother board **10** to provide a flow path for static electricity. Since the light guide bar **150** of the present embodiment is assembled to the cover body **110** after the cover body **110** is assembled on the connector **12** and fixed to the mother board **10**, the light guide bar **150** is not subject to a high temperature of reflow soldering, which effectively avoids lowering light-guiding effect of the light guide bar **150** resulting from the influence of the high temperature. Therefore, excellent light-guiding quality of the light guide bar **150** can be maintained.

[0037] In addition, in the present embodiment, as FIG. **2** shows, the cover body **110** includes at least one bending leg **140** that is located on an edge of one of the lateral surfaces **114** having the smaller length away from the top surface **112** and bends inward to be adapted to, as FIG. **1** shows, fit with a bottom surface of the connector **12** close to a manipulation part on the right side. In the present embodiment, the cover body **110** is, for example, a metal piece. Before the cover body **110** is disposed on the connector **12**, the bending leg **140** is not bent yet and extends along a direction parallel with the lateral surface **114** having the greater length, to allow the cover body **110** to be disposed downward on the connector **12**. After the cover body **110** is disposed on the connector **12**, an operator bends the bending leg **140** such that the bending leg **140**, as FIG. **1** and FIG. **2** show, extends along a direction parallel with the lateral surface **114** having the smaller length. At a position below a bottom surface of the connector **12** close to the manipulation part on the right side, the bending leg **140** is hooked with the connector **12**, so that the cover body **110** does not move upward relative to the connector **12** and the two components are fixed to each other. Similarly, the top surface **112** and the four lateral surfaces **114** of the cover body **110** cover a top surface and four sides of the connector **12** and confine the cover body **110** such that the cover body **110** does not move forward, backward, leftward, rightward, and downward relative to the connector **12**. Moreover, the cover body **110** is further fixed to the mother board **10** by the fixing leg **130** and is securely fixed to the connector **12**.

[0038] It shall be noted that the position of the arm **120** of the cover body **110** is not limited to that in the present embodiment. Other configurations of the arm **120** are described below. FIG. **5** to FIG. **8** are respectively side schematic diagrams illustrating cover bodies of various connector cover modules according to a plurality of embodiments of the invention. It shall be noted that, in the following embodiments, components identical or similar to those in the previous embodiment are labeled by the same or similar reference numerals. Only main differences from the previous embodiment are described, and the identical content is not repeatedly described.

[0039] Referring to FIG. **5** first, in the present embodiment, arms **120***a* are aligned on an edge of one of the lateral surfaces **114** in a length direction and extend in the same direction to collectively bend and form the accommodating groove **125** (marked in FIG. **2**). More specifically, as FIG. **5** shows, in the lateral surface **114**, the two arms **120***a* are aligned on an upper edge of the lateral surface **114** and extend downward. In the present embodiment, the alms **120***a* confine upward movement and movement in the forward and backward directions of the light guide bar **150** (illustrated in FIG. **2**). Two first fixing parts **122***a* of the two arms **120***a* reach into the through-holes of the light guide bar **150** and lean against the inner wall of the through-holes. The first fixing part **122***a* on the left side confines the rightward movement and upward/downward movement of the light guide bar **150**, and the first fixing part **122***a* on the right side confines the leftward movement and upward/downward movement of the light guide bar **150**. Moreover, the mother board **10** (illustrated in FIG. **1**) confines the downward movement of the light guide bar **150** and fixes the light guide bar **150**.

[0040] Referring to FIG. **6**, in the present embodiment, two arms **120***b* are aligned on a lower edge of the lateral surface **114** and extend upward. Similarly, in the present embodiment, the arms **120***b* confine the downward movement and movement in the forward and backward directions of the light guide bar **150** (illustrated in FIG. **2**). Two first fixing parts **122***b* of the two arms **120***b* reach into the through-holes of the light guide bar **150** and lean against the

inner wall of the through-holes. The first fixing part **122***b* on the left side confines the rightward movement and upward/downward movement of the light guide bar **150**. The first fixing part **122***b* on the right side confines the leftward movement and upward/downward movement of the light guide bar **150**. Moreover, the mother board **10** (illustrated in FIG. **1**) confines the downward movement of the light guide bar **150** and fixes the light guide bar **150**.

[0041] Referring to FIG. **7**, in the present embodiment, the two arms **120***a* are aligned on the upper edge of the lateral surface **114** and extend downward. The other two arms **120***b* are aligned on the lower edge of the lateral surface **114** and extend upward. Similarly, they achieve the effect of confining the upward/downward, leftward/rightward, and forward/backward movement of the light guide bar **150**.

[0042] Referring to FIG. **8**, in the present embodiment, the two arms **120***a*, **120***b* are respectively located on the two opposite sides of the lateral surface **114** and are misaligned from each other. The arms **120***a*, **120***b* respectively extend toward the opposite direction and collectively bend to form the accommodating groove **125**. Specifically, the one arm **120***a* is located on the upper edge of the lateral surface **114** and extends downward. The other arm **120***b* is located on the lower edge of the lateral surface **114** and extends upward. Moreover, the two arms **120***a*, **120***b* are misaligned. Such configuration similarly achieves the effect of confining the upward/downward, leftward/rightward, and forward/backward movement of the light guide bar **150**.

[0043] It shall be mentioned that, in the embodiment of FIG. **1**, the arms **120** are symmetrically located on the two opposite lateral surfaces **114** having the greater length. In other words, in the two opposite lateral surfaces **114** having the greater length, the configuration of the arms **120** on each lateral surface **114** is all identical to the configuration in FIG. **4**. However, in other embodiments, in the two opposite lateral surfaces **114** having the greater length, different arms **120**, **120***a*, **120***b* may be disposed. For example, in one of the lateral surfaces **114** having the greater length, the configuration of FIG. **5** may be adopted to dispose the arms **120***a*. In the other lateral surface **114** having the greater length, the configuration of FIG. **6** may be adopted to dispose the arms **120***b*. Alternatively, in one of the lateral surfaces **114** having the greater length, the configuration of FIG. **8** (i.e., upper-left and lower-right) may be adopted to dispose the arms **120***a*, **120***b*, and in the other lateral surface **114** having the greater length, a configuration reverse to that of FIG. **8** (i.e., upper-right and lower-left) may be adopted to dispose the arms **120***a*, **120***b*. The configuration is not limited to the description above.

[0044] FIG. **9** is a schematic diagram illustrating a plurality of the connector cover modules and the connectors of FIG. **1**. Referring to FIG. **9**, FIG. **9** illustrates a plurality of the connector cover modules **100**. Since the PCI-E connectors **12** on the mother board **10** are in an aligned configuration, a designer may fill the light guide bar **150** of the connector cover module **100** in between two adjacent connectors **12**. Accordingly, in the connector cover module **100**, the strength of the connector **12** is, on the one hand, enhanced through the cover body **110** of the metal material. On the other hand, since the two adjacent connectors **12** are filled in with the light guide bar **150**, the light guide bar **150** provides light indication or esthetic effect. Moreover, if the connector **12** is inserted into an expansion card which is disposed with a fan on one side and is unevenly weighted, the light guide bar **150** disposed beside the connector **12** provides support against a cracking direction and reduces a rate of cracking of the connector **12**.

[0045] In summary of the above, in the connector cover module of the invention, the arms extending from the lateral surface bend to form the accommodating groove to accommodate and hold the light guide bar. Since only a small portion of the light guide bar is covered by the arms and the other portions are exposed, the effect of transmitting light in a large area is achieved. Moreover, the cover body of the connector cover module of the invention is disposed on the connector, which effectively enhances the structural strength of the connector. Furthermore, since part of the connectors are aligned on the mother board, if a plurality of the connector cover modules are disposed on the connectors, the light guide bars disposed beside the lateral surfaces of the cover body fill in between the adjacent connectors, which also enhances the strength of the connectors and reduces the rate of cracking of the connectors.

[0046] Although the invention is disclosed as the embodiments above, the embodiments are not meant to limit the invention. Any person skilled in the art may make slight modifications and variations without departing from the spirit and scope of the invention. Therefore, the protection scope of the invention shall be defined by the claims attached below.

1. A connector cover module adapted to be disposed on a connector on a mother board, the connector cover module comprising:

a cover body comprising a top surface, a plurality of lateral surfaces, a fixing leg, and at least one arm, wherein the fixing leg extending from one of the lateral surfaces to a direction away from the top surface, the fixing leg is adapted to be fixed to the mother board, and the at least one arm extends from one of the lateral surfaces and bends outward to form an accommodating groove; and

at least one light guide bar located beside one of the lateral surfaces, held by the corresponding at least one arm, and located in the accommodating groove bent and formed by the at least one arm.

2. The connector cover module according to claim **1**, wherein the at least one arm comprises a plurality of the arms, the arms are respectively located on two opposite sides of one of the lateral surfaces and correspond to each other, and the arms respectively extend toward an opposite direction to collectively bend and form the accommodating groove.

3. The connector cover module according to claim **1**, wherein the at least one arm comprises a plurality of the arms, the arms are respectively located on two opposite sides of one of the lateral surfaces and are misaligned from each other, and the arms respectively extend toward an opposite direction to collectively bend and form the accommodating groove.

4. The connector cover module according to claim **1**, wherein the at least one arm comprises a plurality of the arms, and the arms are aligned on an edge of one of the lateral surfaces in a length direction and extend in a same direction to collectively bend and form the accommodating groove.

5. The connector cover module according to claim **1**, wherein the at least one arm comprises a plurality of the arms, and the arms respectively protrude from two opposite

lateral surfaces of the lateral surfaces and bend and form two accommodating grooves located outside the two lateral surfaces, wherein the at least one light guide bar comprises two light guide bars, and the two light guide bars are held by the arms and are located in the two accommodating grooves.

6. (canceled)

7. The connector cover module according to claim **1**, wherein the cover body comprises a bending leg that is located on an edge of one of the lateral surfaces away from the top surface and is adapted to bend to below a bottom surface of the connector.

8. The connector cover module according to claim **1**, wherein each of the light guide bars is in a plate shape and has a greater length in two opposite lateral surfaces of the lateral surfaces, wherein one of the lateral surfaces of the light guide bar having a greater length is only covered by the arm, when the light guide bar is located in the accommodating groove.

9. The connector cover module according to claim **1**, wherein each of the arms comprises a first fixing part, and each of the light guide bars comprises a second fixing part corresponding to the first fixing part, wherein one of the first fixing part and the second fixing part is a recess or a through-hole, and the other one is a bending elastic piece or a bump.

10. The connector cover module according to claim **1**, wherein each of the light guide bars comprises an inclined light incident part adapted to be adjacently disposed beside a light source of the mother board such that light emitted by the light source enters the light guide bar via the light incident part.

11. A cover body of connector cover module, comprising:

a top surface;

a plurality of lateral surfaces, connected to the top surface;

a fixing leg, extending from one of the lateral surfaces to a direction away from the top surface, the fixing leg is adapted to be fixed to the mother board;

a bending leg, located on an edge of one of the lateral surfaces away from the top surface and is configured to bend to below a bottom surface of a connector; and

at least one arm, extending from one of the lateral surfaces and bends outward to form an accommodating groove.

12. The cover body according to claim **11**, wherein the at least one arm comprises a plurality of the arms, the arms are respectively located on two opposite sides of one of the lateral surfaces and correspond to each other, and the arms respectively extend toward an opposite direction to collectively bend and form the accommodating groove.

13. The cover body according to claim **11**, wherein the at least one arm comprises a plurality of the arms, the arms are respectively located on two opposite sides of one of the lateral surfaces and are misaligned from each other, and the arms respectively extend toward an opposite direction to collectively bend and form the accommodating groove.

14. The cover body according to claim **11**, wherein the at least one arm comprises a plurality of the arms, and the arms are aligned on an edge of one of the lateral surfaces in a length direction and extend in a same direction to collectively bend and form the accommodating groove.

15. The cover body according to claim **11**, wherein the at least one arm comprises a plurality of the arms, and the arms respectively protrude from two opposite lateral surfaces of the lateral surfaces and bend and form two accommodating grooves located outside the two lateral surfaces, wherein two light guide bars are adapted to be held by the arms and are located in the two accommodating grooves.

16-17. (canceled)

18. The cover body according to claim **11**, wherein a light guide bar is adapted to be held by the at least one arm and located in the accommodating groove, the light guide bars is in a plate shape and has a greater length in two opposite lateral surfaces of the lateral surfaces, wherein one of the lateral surfaces of the light guide bar having a greater length is only covered by the arm, when the light guide bar is located in the accommodating groove.

19. The cover body according to claim **11**, wherein each of the arms comprises a first fixing part, and a light guide bar comprises a second fixing part corresponding to the first fixing part, wherein one of the first fixing part and the second fixing part is a recess or a through-hole, and the other one is a bending elastic piece or a bump.

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