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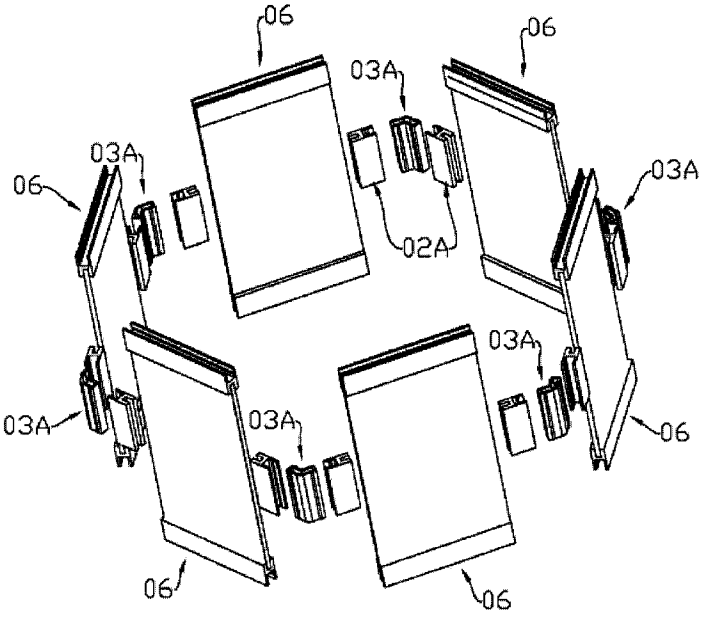
(54) **Titre : AFFICHAGE D'EXPOSITION ASSEMBLE AU MOYEN DE RACCORDS**
(54) **Title: SPLICED AND ASSEMBLED DISPLAY BODY**



(57) **Abrégé/Abstract:**
The present invention relates to the fields of exhibition and displaying, and discloses an exhibition display assembled using fittings. In the exhibition display, paired male connectors (11) and female connectors (21) are fitted together to arrange decorative frames (06) into a desired shape. Desired shapes in accordance with local situation can be arranged. The exhibition display can be disassembled during transportation and occupies small space.

Abstract

A spliced and assembled display body belongs to the fields of display and exhibition. The display body is used for assembling the assembling bodies (06) into the required shapes by splicing the paired male joints (11) and female interfaces (21), and can be arranged into the required shapes according to the site shape. The display body is disassembled while transportation, so that the space occupation is small.

Spliced and Assembled Display Body

Technical Field

The present invention relates to the fields of display and exhibition, and particularly to a spliced and assembled display body.

Background

The shape of the existing assembling bodies (such as photo frames, picture frames and display frames) cannot be changed again once made, regardless of specifications and sizes. However, irregular positions are often presented in a number of display and exhibition spaces, and in order to adapt to the positions, the assembling bodies are made according to the irregular positions, which brings inconvenience to the transportation and arrangement; and when the assembling bodies are made into small specifications, the assembling bodies are arranged and installed one by one, and the correlation is lacked to one another, thereby, the installation is convenient.

Summary of the Present Invention

The purpose of the present invention is to provide a spliced and assembled display body which is convenient for transportation and can be flexibly arranged according to site requirements.

In order to achieve the above purpose, the spliced and assembled display body of the present invention is used for assembling the assembling bodies into required shapes by splicing paired male joints and female interfaces.

As a preferred technical measure: the male joints are provided with a bulge, a stopping edge is arranged on the bulge, a recess is arranged on the female interfaces, a stopping groove is arranged on the inner wall of the recess, the bulge is inserted into the recess and the stopping edge is located in the stopping groove, thereby realizing the splicing of the male joints and the female interfaces. Further, a locating protrusion is arranged on the bulge, a locating slot is arranged on the inner wall of the recess, and the locating protrusion is located in the locating slot when the male joints are spliced with the female interfaces together.

As a preferred technical measure: the male joints are arranged on male connecting parts, and the female interfaces are arranged on female connecting parts. Specifically, the male connecting parts and the female connecting parts are assembled on two adjacent assembling

bodies respectively, and the assembly of the two adjacent assembling bodies is realized by splicing the male joints of the male connecting parts and the female interfaces on the female connecting parts. Or, the male connecting parts are assembled on the two adjacent assembling bodies respectively, the assembly of the two adjacent assembling bodies is realized by splicing connectors and the male connecting parts, the connectors are provided with the two female interfaces, and the two female interfaces of the connectors are spliced with the male joints of the male connecting parts respectively, thereby realizing the assembly of the two adjacent assembling bodies. Or, the female connecting parts are assembled on the two adjacent assembling bodies respectively, the assembly of the two adjacent assembling bodies is realized by splicing the connectors and the female connecting parts, the connectors are provided with the two male joints, and the assembly of the two adjacent assembling bodies is realized by splicing the two male joints of the connectors and the female interfaces of the female connecting parts. Especially, the connectors are in a hinged shape.

As a preferred technical measure: the male joints are arranged on the male connecting parts, the female interfaces are arranged on the female connecting parts, the male connecting parts and the female connecting parts are assembled on the two adjacent assembling bodies respectively, the assembly of the two adjacent assembling bodies is realized by splicing the connectors and the male connecting parts and the female connecting parts, the connectors are provided with the male joints and the female interfaces, the male joints of the connectors are spliced with the female interfaces of the female connecting parts, and the female interfaces of the connectors are spliced with the male joints of the male connecting parts. Especially, the connectors are in the hinged shape.

As a preferred technical measure: the male connecting parts or/and the female connecting parts are one of a straight plate shape, a break angle shape and a rounded angle shape. The connectors are one of the straight plate shape, the break angle shape and the rounded angle shape. The male connecting parts or/and the female connecting parts are provided or matched with accessories.

As a preferred technical measure: the display body comprises support bodies assembled by the paired male joints and female interfaces and the assembling bodies. Specifically, the support bodies are column-shaped, and the assembling bodies are radially assembled around

the column-shaped support bodies. Further, the lower end of the support bodies is rotatably connected to a base. Or, the support bodies are vase-shaped, and the assembling bodies are assembled between the support bodies; and further, the support bodies are spliced through the corresponding connector.

In order to achieve the purpose, the spliced and assembled display body of the present invention can also be used for assembling the assembling bodies into the required shapes with the connector.

Further, the connectors are provided with two inserting openings, and the edges of the two adjacent assembling bodies are assembled in the two inserting openings respectively, thereby realizing the assembly.

The spliced and assembled display body has the beneficial effects that: the assembling bodies are assembled into the required shapes by splicing the paired male joints and female interfaces; therefore, the assembling bodies can be arranged into the required shapes according to the site shape; and the display body is disassembled while transportation, so that the space occupation is small.

Description of Drawings

Figure 1 is a structural diagram of a spliced and assembled display body of the present invention;

Figure 2 is another structural diagram of a spliced and assembled display body of the present invention;

Figure 3 is a third structural diagram of a spliced and assembled display body of the present invention;

Figure 4 is a fourth structural diagram of a spliced and assembled display body of the present invention;

Figures 5-8 are diagrams of female connecting parts with four different structures of the present invention;

Figures 9-12 are diagrams of male connecting parts with four different structures of the present invention;

Figure 13 is a diagram of one connector of the present invention;

Figure 14 is a diagram of one accessory of the present invention;

Figure 15 is a diagram that the vase-shaped support bodies of the present invention are spliced to each other; and

Figures 16-18 are three structural diagrams of the connectors of the present invention for assembling the assembling bodies into the required shapes;

In which, label declaration is as follows:

01A, 01B, 01C, 01D-male connecting parts;

11-male joint, 12-bulge, 13-stopping edge, 14-locating protrusion;

02A, 02B, 02C, 02D-female connecting parts;

21-female interface, 22-recess, 23-stopping groove, 24- locating slot;

03A, 03B, 03C, 03D, 03E-connectors, 31-inserting opening;

04-accessories;

05A, 05B-support bodies, 51-base;

06-assembling bodies;

07-sucker.

Detailed Description of Embodiments

Further description is made for the present invention in combination with the drawings of the description.

The spliced and assembled display body of the present invention is used for assembling the assembling bodies into the required shapes by splicing paired male joints and female interfaces. As shown in Figures, Figure 1 is orthohexagonal, Figure 2 is in a wall shape of a facade, Figure 3 is radial, Figure 4 is rotatable, and the situations shown in Figures 1-4 are arranged vertically, so that the assembly is convenient. The layout can be carried out in accordance with a spatial position: in the specific implementation, the whole display body can be adsorbed on a flat wall (such as glass wall, marble wall and the like, see Figure 2) independently or in combination with a sucker 07 and other tools, thereby realizing the arrangement on the wall and strengthening the stability. The display body with a plurality of shapes and structural styles can be arranged into the required shape according to the site shape because the assembling bodies are assembled by splicing; and the display body is disassembled while transportation, so that the space occupation is small.

As the further improvement and supplement for the above technical solution, the present

invention further comprises additional technical features involved in paragraphs below; and the additional technical features can be selected for the technical solution of the present invention according to the specific effect when implementing the present invention.

Firstly, see Figures 9-12. Male joints 11 are provided with a bulge 12, and a stopping edge 13 is arranged on the bulge 12; see Figures 5-8; a recess 22 is arranged on female interfaces 21, a stopping groove 23 is arranged on the inner wall of the recess 22, and the bulge 12 is inserted into the recess 22 and the stopping edge 13 is located in the stopping groove 23, thereby realizing the splicing of the male joints and the female interfaces. Further, see Figures 9-12. A locating protrusion 14 is arranged on the bulge 12. See Figures 5-8. A locating slot 24 is arranged on the inner wall of the recess 22, and the locating protrusion 14 is located in the locating slot 24 when the male joints 11 are spliced with the female interfaces 21, thereby facilitating the aligned splicing; and after splicing, an external force can be borne by the locating protrusion and the locating slot horizontally, thereby being suitable for the male joints and the female interfaces spliced together to realize the connection in a plurality of postures.

Secondly, the male joints 11 are arranged on the male connecting parts 01A, 01B, 01C and 01D; and the female interfaces 21 are arranged on the female connecting parts 02A, 02B, 02C and 02D. At this time, the assembling bodies can be assembled with the following ways: first, the male connecting parts and the female connecting parts are assembled on two adjacent assembling bodies respectively, and the assembly of the two adjacent assembling bodies is realized by splicing the male joints of the male connecting parts and the female interfaces on the female connecting parts. Second, the male connecting parts are assembled on the two adjacent assembling bodies respectively, the assembly of the two adjacent assembling bodies is realized by splicing connectors and the male connecting parts, the connectors are provided with the two female interfaces, and the two female interfaces of the connectors are spliced with the male joints of the male connecting parts respectively, thereby realizing the assembly of the two adjacent assembling bodies. The structural style of the connectors can refer to that of the female connecting parts. Third, the female connecting part 02A is assembled on the two adjacent assembling bodies 06 respectively, the assembly of the two adjacent assembling bodies is realized by splicing the connector 03A and the female connecting part 02A, the

connector 03A is provided with the two male joints 11, and the assembly of the two adjacent assembling bodies is realized by splicing the two male joints of the connectors and the female interfaces of the female connecting parts (See Figure 1). The structural style of the connectors can refer to that of the male connecting parts. In allusion to the second and the third situations, the connector 03B can also be in a hinged shape, so that the two assembling bodies can be relatively rotated through the connectors (see Figure 4).

Thirdly, the male joints are arranged on the male connecting parts, the female interfaces are arranged on the female connecting parts, the male connecting parts and the female connecting parts are assembled on the two adjacent assembling bodies respectively, the assembly of the two adjacent assembling bodies is realized by splicing the connectors and the male connecting parts and the female connecting parts, the connectors are provided with the male joints and the female interfaces, and the male joints of the connectors are spliced with the female interfaces of the female connecting parts, and the female interfaces of the connectors are spliced with the male joints of the male connecting parts. Further, the connectors are in the hinged shape, so that the two assembling bodies can be relatively rotated through the connectors (see Figure 4).

Fourthly, the male connecting parts or/and the female connecting parts are one of a straight plate shape (see Figure 5, Figure 6 and Figure 9), a break angle shape (see Figure 12) and a rounded angle shape (see Figures 7-8 and 10-11). The connectors are one of the straight plate shape, the break angle shape and the rounded angle shape. Thereby, the assembling bodies can be spliced into a plurality of shapes.

Fifthly, accessories are arranged on the male connecting parts or/and the female connecting parts; or accessories 04 are arranged on the male connecting parts or/and the female connecting parts. The accessory shown in Figure 14 shows a hook spliced with the female connecting parts, the hook is used for hanging a basket and other objects; and while the specific implementation, the accessories can be in other shapes and structural styles, and can also be spliced with the male connecting parts.

Sixthly, the display body comprises support bodies assembled by the paired male joints and female interfaces and the assembling bodies. Specifically, the support body 05A can be column-shaped, and the assembling bodies 06 are radially assembled around the

column-shaped support bodies 05A (see Figure 3). Further, the lower end of the support body 05A is rotatably connected to a base 51. Accordingly, the assembling bodies assembled on the support bodies can be rotated by virtue of the supporting bodies, thereby being convenient for seeing. The support body 05B can also be vase-shaped, and the assembling bodies 06 are assembled between the support bodies (see Figure 2). Further, the vase-shaped support bodies can also be spliced through the corresponding connector.

The spliced and assembled display body of the present invention can also be used for assembling the assembling bodies into the required shapes with the connector. Further, the connectors (see Figures 16-18) are provided with two inserting openings, and the edges of the two adjacent assembling bodies are assembled in the two inserting openings respectively, thereby realizing the assembly.

The present invention shows the male connecting parts, the female connecting parts and the connectors with a plurality of different structural styles, and the plurality of structural styles have indicated the technical enlightenment of the male connecting parts and the female connecting parts. Therefore, in the specific implementation, the male connecting parts and the female connecting parts with more structural styles can be made according to the requirements. However, the assembling bodies shown in the Figure are rectangular; can also be in other shapes in the specific implementation, such as parallelogram, regular pentagon, regular hexagon and the like; and can also be a combination of a plurality of shapes. The purpose is to assemble the assembling bodies (including other decorative parts) by splicing into the required shapes, which belongs to the protection scope claimed in the present invention.

Claims

1. A spliced and assembled display body, wherein:

assembling bodies are assembled into required shapes by splicing paired male joints and female interfaces;

the male joints are provided with a bulge, a stopping edge is arranged on the bulge, a recess is arranged on the female interfaces, a stopping groove is arranged on an inner wall of the recess, the bulge is inserted into the recess and the stopping edge is located in the stopping groove, thereby realizing the splicing of the male joints and the female interfaces;

a locating protrusion is arranged on the bulge, a locating slot is arranged on the inner wall of the recess, and the locating protrusion is located in the locating slot when the male joints are spliced with the female interfaces together.

2. The spliced and assembled display body according to claim 1, wherein:

the male joints are arranged on male connecting parts, and the female interfaces are arranged on female connecting parts.

3. The spliced and assembled display body according to claim 2, wherein:

the male connecting parts and the female connecting parts are assembled on two adjacent assembling bodies respectively, and the assembly of the two adjacent assembling bodies is realized by splicing the male joints of the male connecting parts and the female interfaces on the female connecting parts.

4. The spliced and assembled display body according to claim 2, wherein:

the male connecting parts are assembled on the two adjacent assembling bodies respectively, the assembly of the two adjacent assembling bodies is realized by splicing connectors and the male connecting parts, the connectors are provided with the two female interfaces, and the two female interfaces of the connectors are spliced with the male joints of the male connecting parts respectively, thereby realizing the assembly of the two adjacent assembling bodies.

5. The spliced and assembled display body according to claim 2, wherein:

the female connecting parts are assembled on the two adjacent assembling bodies respectively, the assembly of the two adjacent assembling bodies is realized by splicing the connectors and the female connecting parts, the connectors are provided with the two male joints, and the assembly of the two adjacent assembling bodies is realized by splicing the two male joints of the connectors and the female interfaces of the female connecting parts.

6. The spliced and assembled display body according to claim 4 or 5, wherein:

the connectors are in a hinged shape.

7. The spliced and assembled display body according to claim 1, wherein:

the male joints are arranged on the male connecting parts, the female interfaces are arranged on the female connecting parts, the male connecting parts and the female connecting parts are assembled on the two adjacent assembling bodies respectively, the assembly of the two adjacent assembling bodies is realized by splicing the connectors and the male connecting parts and the female connecting parts, the connectors are provided with the male joints and the female interfaces, the male joints of the connectors are spliced with the female interfaces of the female connecting parts, and the female interfaces of the connectors are spliced with the male joints of the male connecting parts.

8. The spliced and assembled display body according to claim 7, wherein:

the connectors are in the hinged shape.

9. The spliced and assembled display body according to claim 2 or 7, wherein:

the male connecting parts and the female connecting parts are one of a straight plate shape, a break angle shape and a rounded angle shape.

10. The spliced and assembled display body according to claim 4 or 5 or 7, wherein:

the connectors are one of the straight plate shape, the break angle shape and the rounded angle shape.

11. The spliced and assembled display body according to claim 2, wherein:

the male connecting parts and the female connecting parts are provided or matched with accessories.

12. The spliced and assembled display body according to claim 1, wherein:

the display body comprises support bodies assembled by the paired male joints and female interfaces and the assembling bodies.

13. The spliced and assembled display body according to claim 12, wherein:

the support bodies are column-shaped, and the assembling bodies are radially assembled around the column-shaped support bodies.

14. The spliced and assembled display body according to claim 13, wherein:

the lower end of the support bodies is rotatably connected to a base.

15. The spliced and assembled display body according to claim 12, wherein:

the support bodies are vase-shaped, and the assembling bodies are assembled between the support bodies.

16. The spliced and assembled display body according to claim 15, wherein:

the support bodies are spliced through the corresponding connector.

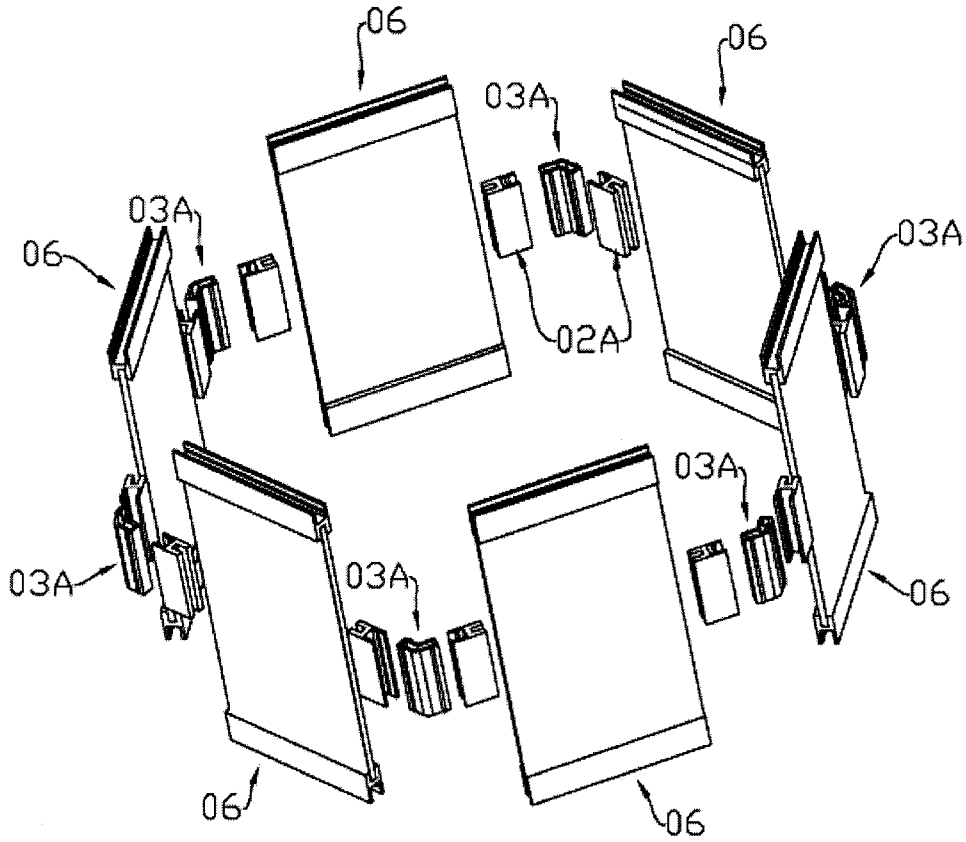


Figure 1

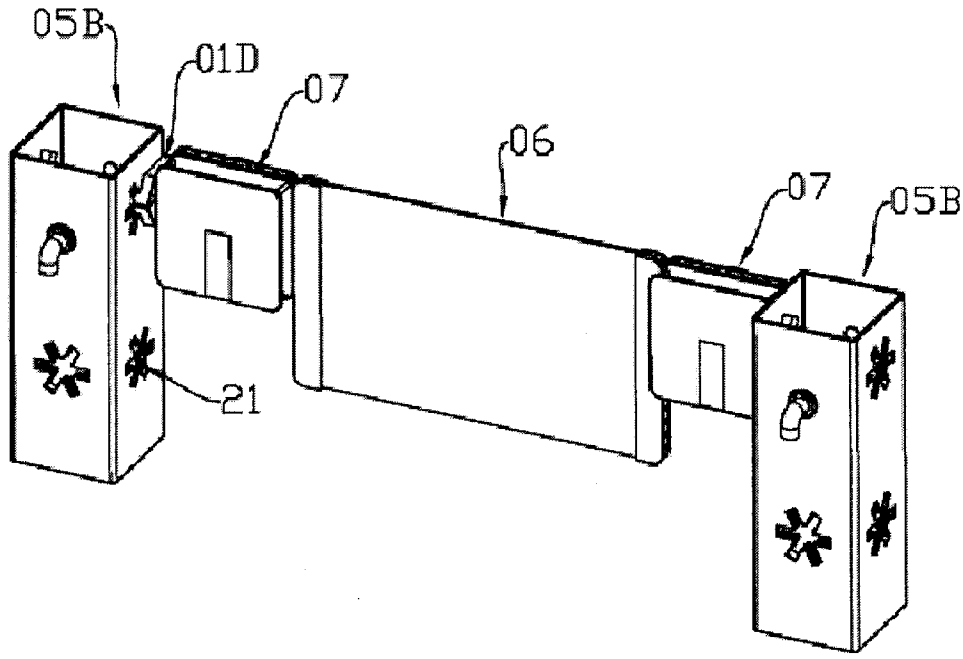


Figure 2

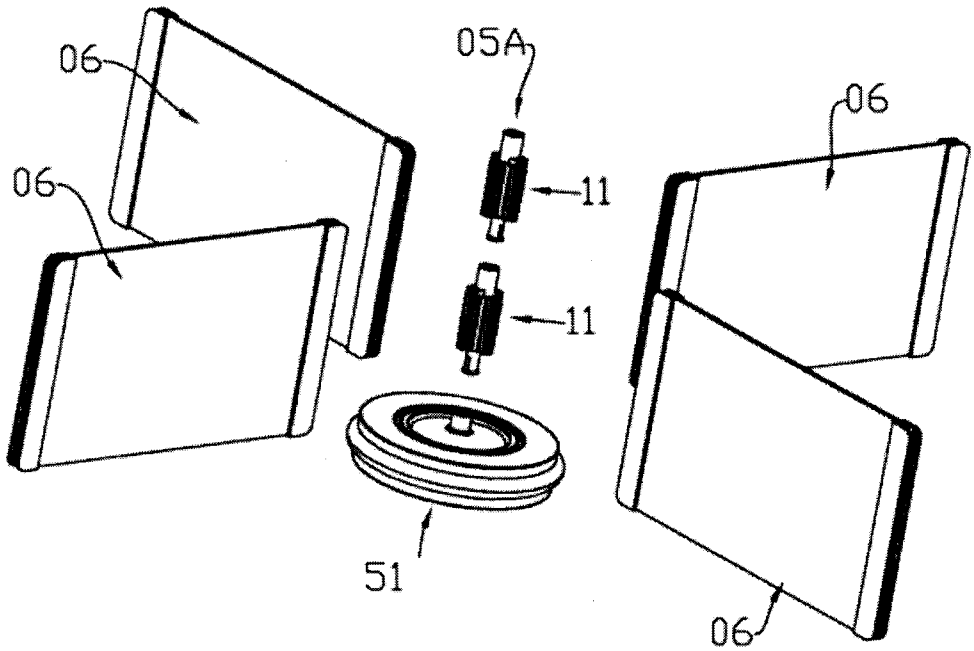


Figure 3

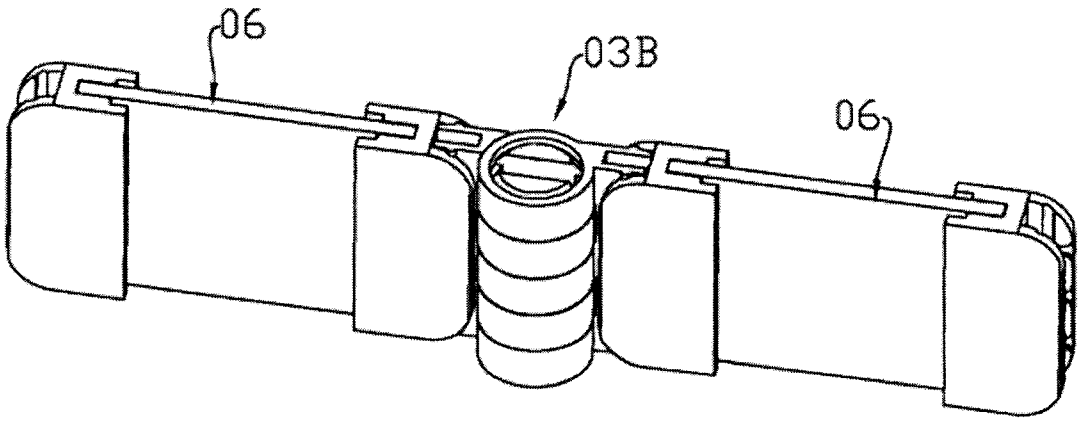


Figure 4

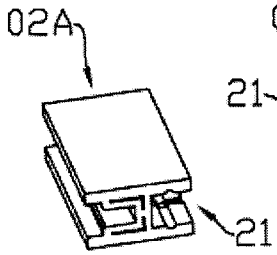


Figure 5

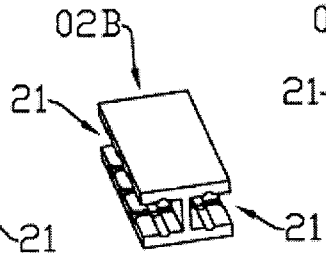


Figure 6

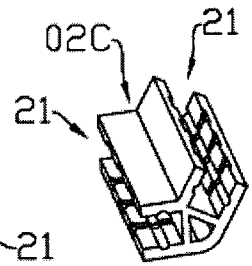


Figure 7

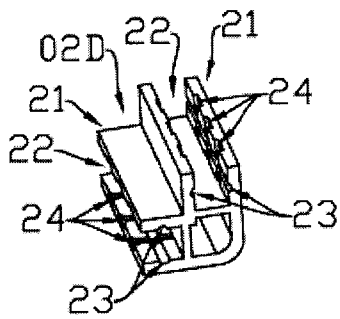


Figure 8

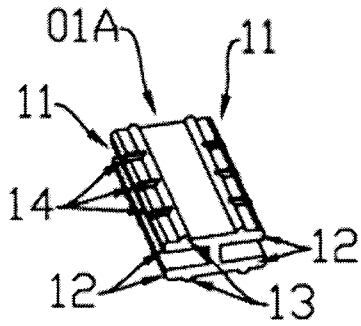


Figure 9

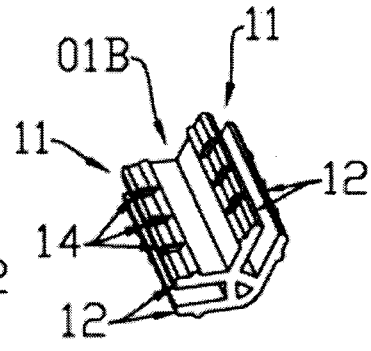


Figure 10

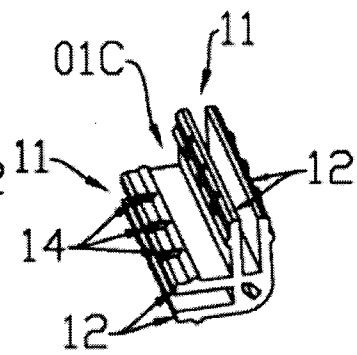


Figure 11

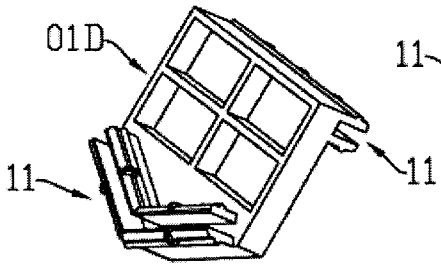


Figure 12

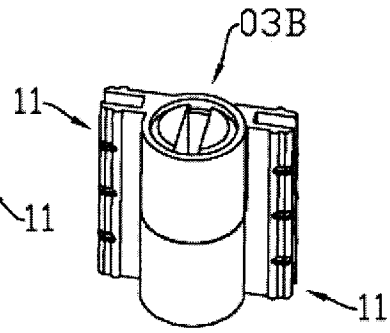


Figure 13

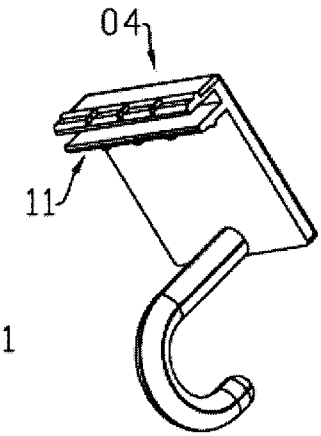


Figure 14

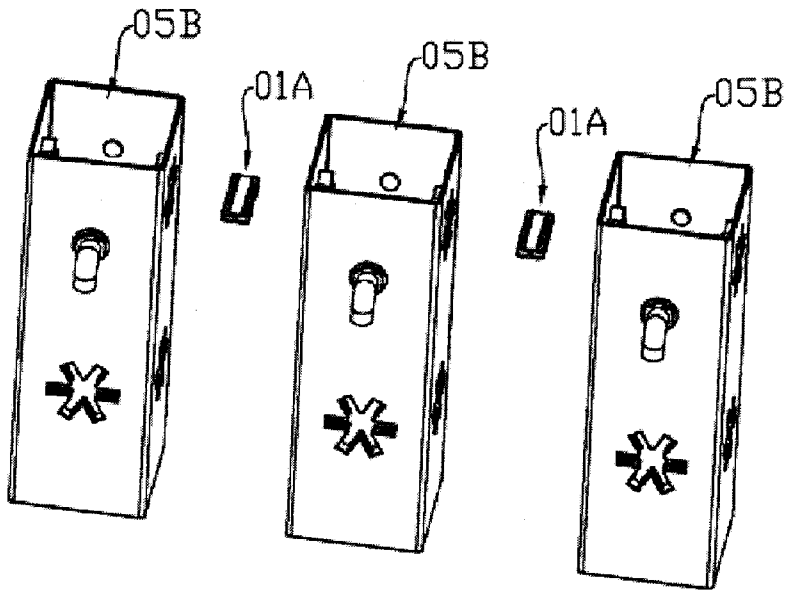


Figure 15

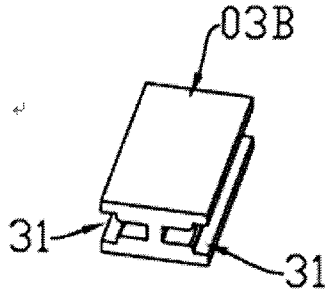


Figure 16

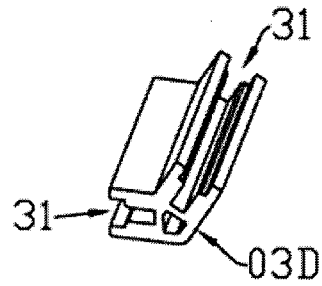


Figure 17

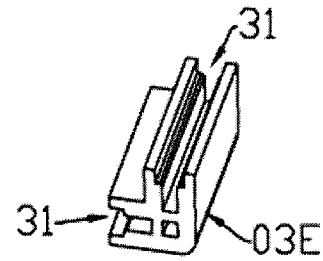
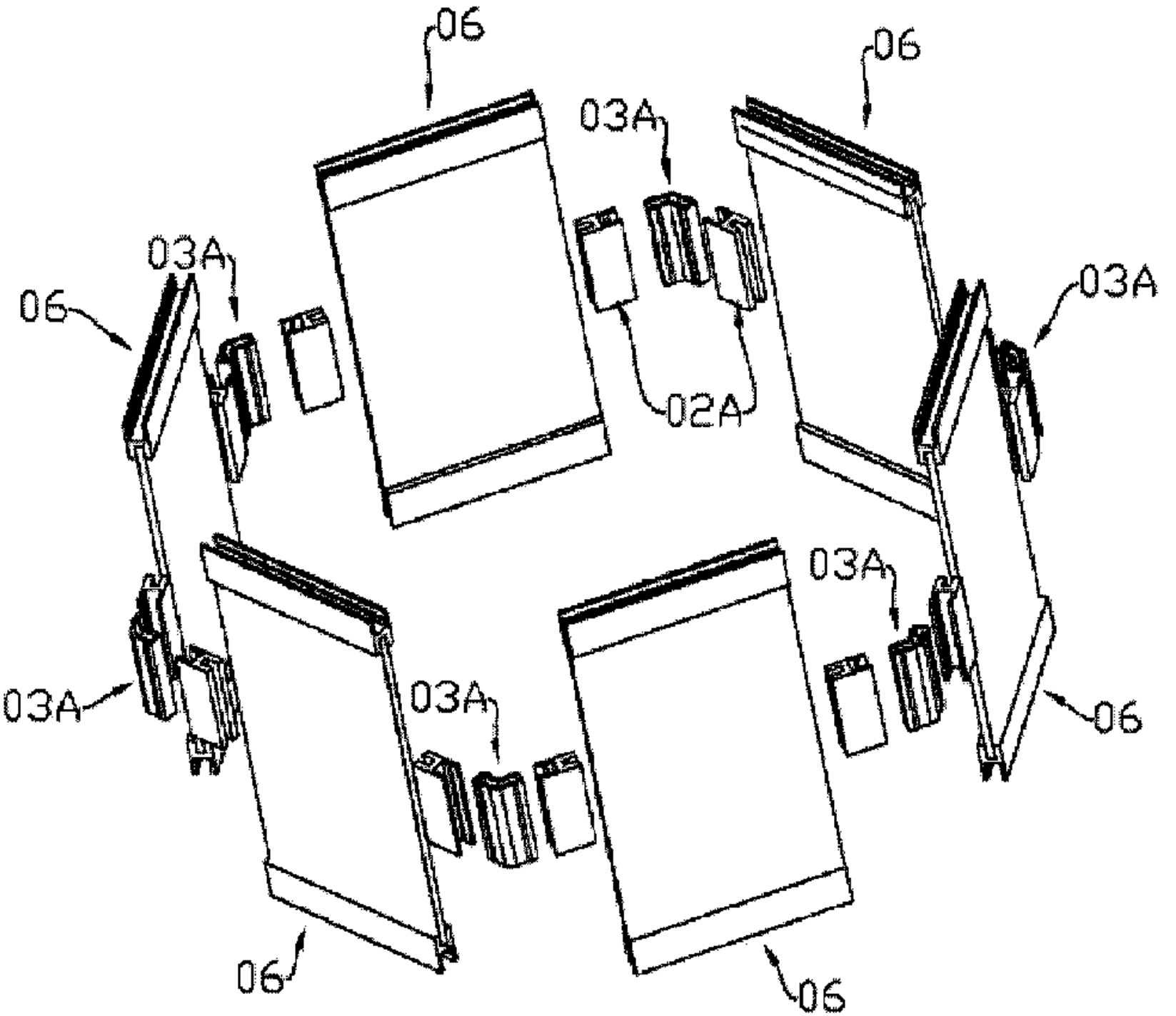


Figure 18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