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**(54) Poster display stand**

(57) A poster stand, comprising a poster frame for mounting a poster, a supporting leg for supporting the poster frame (1), and a connector (3) for connecting the poster frame (1) and the supporting leg (2) is provided. Said poster frame (1) includes several poles (4), wherein, at least one of said supporting leg (2) and poles (4) is wood/bamboo strip.

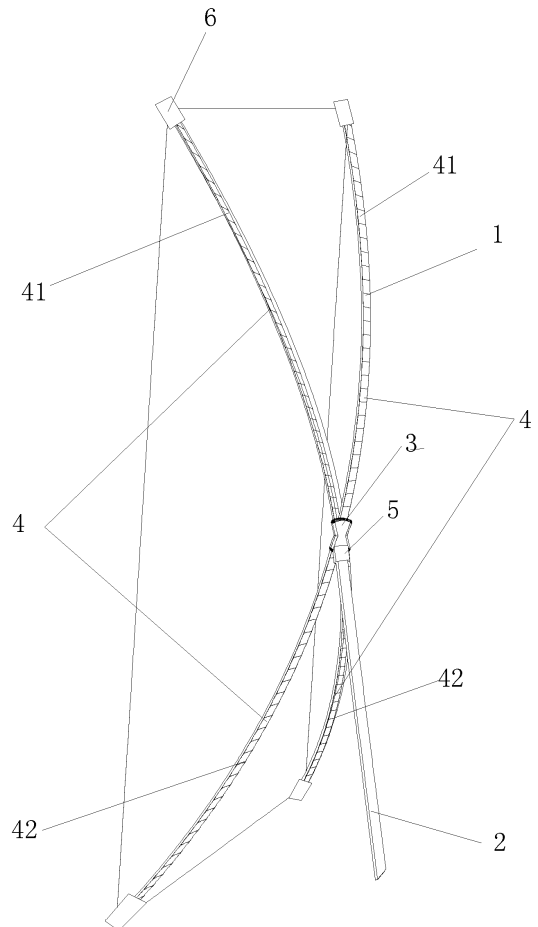


Fig. 2

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## Description

### Field of the invention

**[0001]** The field of the invention generally relates to a poster display stand, particularly a poster display stand made of bamboo or wood.

### Background

**[0002]** With the development of business, advertising and exhibition, there has been a tremendous increase in the use of poster display stand. At present, the poster display stand generally comprises a poster frame, a supporting leg supporting the poster frame, a poster is displayed by the poster frame for the purpose of advertising and exhibiting. However, most of the supporting legs and the poles for assembling the poster display stand are hollow circular poles, which are unstable and need to be positioned and fixed by retainers, and it takes time to assemble and disassemble the stand. Nowadays, people around the world are paying more and more attention to the protection of the environment, while the hollow poles are made of fiberglass, which is not a kind of green materials.

### Summary of the invention

**[0003]** The objection of the invention is to provide a poster display stand whose supporting leg and poles are made of wood/bamboo strips. Therefore, the display stand could be easily assembled without retainer and is stable, green and environment-friendly.

### Technical solutions of the invention

**[0004]** A poster display stand comprising: a poster frame for mounting a poster, a supporting leg for supporting the poster frame, a connector for connecting the poster frame and the supporting leg. The poster frame includes several poles, at least one of the supporting legs and the poles are wood/bamboo strips; the upper portion of said connector is designed to receive and fix the first end of the two upper poles, and the lower portion of the connector is designed to receive the first end of the two lower poles, which could rotate respectively within the limit of the connector.

**[0005]** The upper poles and the lower poles are arranged to have an X-shaped configuration, the rear end of the connector is provided with a downward sloping rear socket, the first end of the supporting leg is inserted into the rear socket and fixed by the rear socket, the said connector comprising a front cover and a rear cover, respectively provided with a sloping groove at their upper parts, the two sloping grooves are interlaced arranged, the first ends of the upper poles are inserted into their respective sloping grooves, the front and rear covers are provided with fan-shaped grooves respectively, the two

fan-shaped grooves are interlaced arranged, respectively having a location pin, disposed symmetrically, the first end of the lower pole is provided with a location hole corresponding to the location pin, the location pins are inserted into their respectively location holes and position the two lower poles in their respective fan-shaped grooves, the lower pole could rotate around the location pin.

**[0006]** After the disassembling of the poster display stand, the two lower poles are superposed at the overlapping portion of the two fan-shaped grooves.

**[0007]** The second ends of the said upper poles and the lower poles are inserted into respective hook seats, the hook seat is provided with a hook, the poster is strained by the four hooks and the said rear socket is arranged at the rear side of the rear cover.

**[0008]** The upper part and the lower part of the said connector may coupled with a pole respectively, arranged to have a C-shaped configuration, the said connector is provided with an upper socket at its upper part and a lower socket at its lower part, and the upper socket and the lower socket are designed to receive and fix poles, a sloping downward rear socket is disposed at the rear part of the connector, the first end of a supporting leg is inserted into the rear socket, the second end of the said poles are coupled with a transverse rod respectively, each rod clips one end of a poster and strain the poster.

**[0009]** The advantages of the present invention are as follows:

1. The supporting leg and the poles of the invention are wood/bamboo strips, the supporting leg and the poles themselves are stable without employing a retainer.

2. The supporting leg and the poles of the invention are directly inserted in to the connector without employing a retainer, it is very easy to disassemble the stand, and also convenient for packing it away.

3. The supporting leg and the poles of the invention are wood/bamboo strips, which is environment-friendly. The present invention will be further described in conjunction with the drawings and the embodiments:

Fig.1 is a schematic view of the invention in embodiment 1;

Fig.2 is a side view of the invention;

Fig.3 is the schematic view of the front cover of the connector in embodiment 1;

Fig.4 is a schematic view of the rear cover of the connector in embodiment 1;

Fig.5 is a top view of the connector in embodiment 1;

Fig.6 is a bottom view of the connector in embodiment 1;

Fig.7 is a side view of the connector in embod-

- iment 1;  
 Fig.8 is an assembly drawing of poles, supporting leg and connector in embodiment 1;  
 Fig.9 is a schematic view of hook seat in embodiment 1;  
 Fig.10 is a schematic view of the invention in embodiment 2;  
 Fig.11 is a schematic view of hook seat in embodiment 2; and  
 Fig.12 is a schematic view of the connector in embodiment 2.

**[0010]** In the drawing: 1 poster frame; 2 supporting leg; 3 connector; 31 front cover; 32 rear cover; 33 sloping groove; 34 fan-shaped groove; 35 location pin; 36 upper socket; 37 lower socket; 4 pole; 41 upper pole; 42 lower pole; 421 location hole; 5 rear socket; 6 hook seat; 7 hook; 8 rod; 9 groove; 10 pin; 11 annular groove.

#### Description of the Preferred Embodiments

**[0011]** Embodiment 1: In accordance with Fig.1, Fig. 2, a poster display stand, comprising: a connector 3, the top end of said connector 3 is designed to receive the first ends of two upper poles 41, and the bottom end of the connector is designed to receive the first end of two lower poles 42, both lower poles 42 could rotate within the limit of the connector.

**[0012]** In unfolded state, the upper poles 41 and the lower poles 42 are arranged to have an X-shaped configuration, the connector 3 is provided with a rear socket 5 sloping downward, the rear socket 5 is designed to receive and fix a supporting leg 2.

**[0013]** At least one of the supporting leg 2 and poles 4 is wood/bamboo strip, in a more preferred embodiment, all of them are wood/bamboo strips.

**[0014]** In accordance with Fig.9, the second ends of the upper 41 and lower poles 42 are inserted into hook seats 6 respectively, the hook seat 6 is provided with a hook 7, a poster is mounted on the hooks 7 fixed at the second ends of the poles 4.

**[0015]** In accordance with Fig.10, said hook seat 6 could be replaced by a pin 10, the second ends of the upper and lower poles 41, 42 has corresponding holes to the pin 10, the first end of the pin protrudes through the hole, fixed by a screw at the second end of the upper and lower pole, the pin has a annular groove 11 at its middle part, the poster is mounted on the pins 10 by annular grooves 11.

**[0016]** In accordance with Fig.3 to Fig.8, the connector 3 comprising a front cover 31 and a rear cover 32, respectively provided with a sloping groove 33 at their upper part, the two sloping grooves 33 are interlaced arranged, the first ends of the upper poles 41 are inserted into their respective sloping grooves 33, the front cover 31 and rear cover 32 are respectively provided with a fan-shaped groove 34, the two fan-shaped grooves 34 are interlaced arranged, respectively having a location

pin 35, disposed symmetrically, the first end of the lower pole 42 is provided with a location hole 421 corresponding to the location pin 35, the location pins 35 are inserted into their respective location holes 421 and position the two lower poles 42 in their respective fan-shaped grooves 34, and the lower pole 42 could rotate about the location pin 35, when the poster display stand is in folded state, the two lower poles 42 are superposed at the overlapping part of the two fan-shaped grooves 34, the rear socket 5 is disposed at the rear portion of the rear cover 32.

**[0017]** In order to assemble the stand, firstly, unfold the lower poles 42, coupled to the connector 3, then, insert the first end of the upper poles 41 into the upper sloping grooves 33 of the connector 3, and insert the first end of the supporting leg 2 into the rear socket 5, fix the hook seats 6 on the second end of the upper and lower poles 41, 42, finally, stand the poster display stand on the floor, the poster is mounted on the poster frame 1 by the four hooks 7 on the hook seat 6.

**[0018]** Embodiment 2: In accordance with Fig.11 and Fig.12, a poster display stand, comprising: a connector 3, provided with an upper socket 36 at the upper portion and a lower socket 37 at the lower portion, the upper and lower socket 36,37 are designed to respectively receive and fix the first ends of the poles 4, two poles 4 are arranged to have a C-shaped configuration, at the rear portion of the connector 3 a downward sloping socket 5 is provided, which receive and fix the supporting leg 2.

**[0019]** At least one of the supporting leg 2 and poles 4 is wood/bamboo strip, in a more preferred embodiment, all of them are wood/bamboo strips.

**[0020]** Said poster display stand further comprising two traverse rods 8, the rear portion of each rod 8 is provided with a groove 9, the second ends of the poles 4 are inserted in to the grooves 9 respectively, so as to fix the rods 8, each of the upper and lower brim of the poster is coupled with a corresponding rod 8.

**[0021]** Because the poles and the supporting leg 2 are wood/bamboo strips, which could not rotate in the unfolded state, without employing any retainer, thus it is convenient for assembling the stand.

**[0022]** Because the first end of the poles 4 and the leg 2 are directly inserted into the connector 3, without using any retainer, it is very convenient for disassembling the stand, and packing it away as well.

#### Claims

1. A poster stand, comprising a poster frame for mounting a poster, a supporting leg for supporting the poster frame (1), and a connector (3) for connecting the poster frame (1) and the supporting leg (2), said poster frame (1) includes several poles (4), wherein, at least one of said supporting leg (2) and poles (4) is wood/bamboo strip.
2. The poster display stand as claimed in claim 1, **char-**

**acterized in that** all of the supporting leg (2) and poles (4) are wood/bamboo strips.

3. The poster display stand as claimed in claim 2, **characterized in that** the upper portion of said connector (3) is designed to receive the first end of two upper poles (41), and the lower portion of the connector (3) is designed to receive the first end of two lower poles (42), which could rotate respectively within the limitation of the connector (3), the upper poles (41) and lower poles (42) are arranged to have an X-shaped configuration, the rear end of the connector (3) is provided with a downward sloping rear socket (5), the first end of the supporting leg (2) is inserted into the rear socket (5) and fixed by the rear socket (5). 5
  
4. The poster display stand as claimed in claim 3, **characterized in that** said connector comprising a front cover (31) and a rear cover (32), respectively provided with a sloping groove (33) at their upper part, the two sloping grooves (33) are interlaced arranged, the first ends of the upper poles (41) are inserted into their respective sloping grooves (33), the front cover (31) and rear cover (32) are respectively provided with a fan-shaped groove (34), the two fan-shaped grooves (34) are interlaced arranged, respectively having a location pin (35), disposed symmetrically, the first end of the lower pole (42) is provided with a location hole (421) corresponding to the location pin (35), the location pins (35) are inserted into their respective location holes (421) and position the two lower poles (42) in their respective fan-shaped grooves (34), the lower pole (42) could rotate about the location pin (35), after the poster display stand is disassembled, the two lower poles (42) are superposed at the overlapping part of the two fan-shaped grooves (34). 10 15 20 25 30 35
  
5. The poster display stand as claimed in claim 3, **characterized in that** the second ends of said upper and lower poles (41, 42) are inserted into hook seats (6) respectively, the hook seat (6) is provided with a hook (7), the poster is mounted on the four hooks (8). 40
  
6. The poster display stand as claimed in claim 3, **characterized in that** the said rear socket (5) is arranged at the rear side of the rear cover (32). 45
  
7. The poster display stand as claimed in claim 2, **characterized in that** the upper part and the lower part of said connector (3) may be coupled with a pole (4) separately, two poles (4) are arranged to have a C-shaped configuration. 50
  
8. The poster display stand as claimed in claim 7, **characterized in that** said connector (3) is provided with an upper socket (36) at its upper part and a lower socket (37) at its lower part, and the upper and lower 55

sockets (36,37) are designed to receive and fix poles, a downward sloping rear socket (5) is disposed at the rear part of the connector (3), a supporting leg (2) is inserted into the rear socket (5).

9. The poster display stand as claimed in claim 7, **characterized in that** each of the upper and lower brims of said poster is coupled to a transverse rod (8), the second end of each pole (4) is inserted into the groove (9) of the corresponding rod (8).

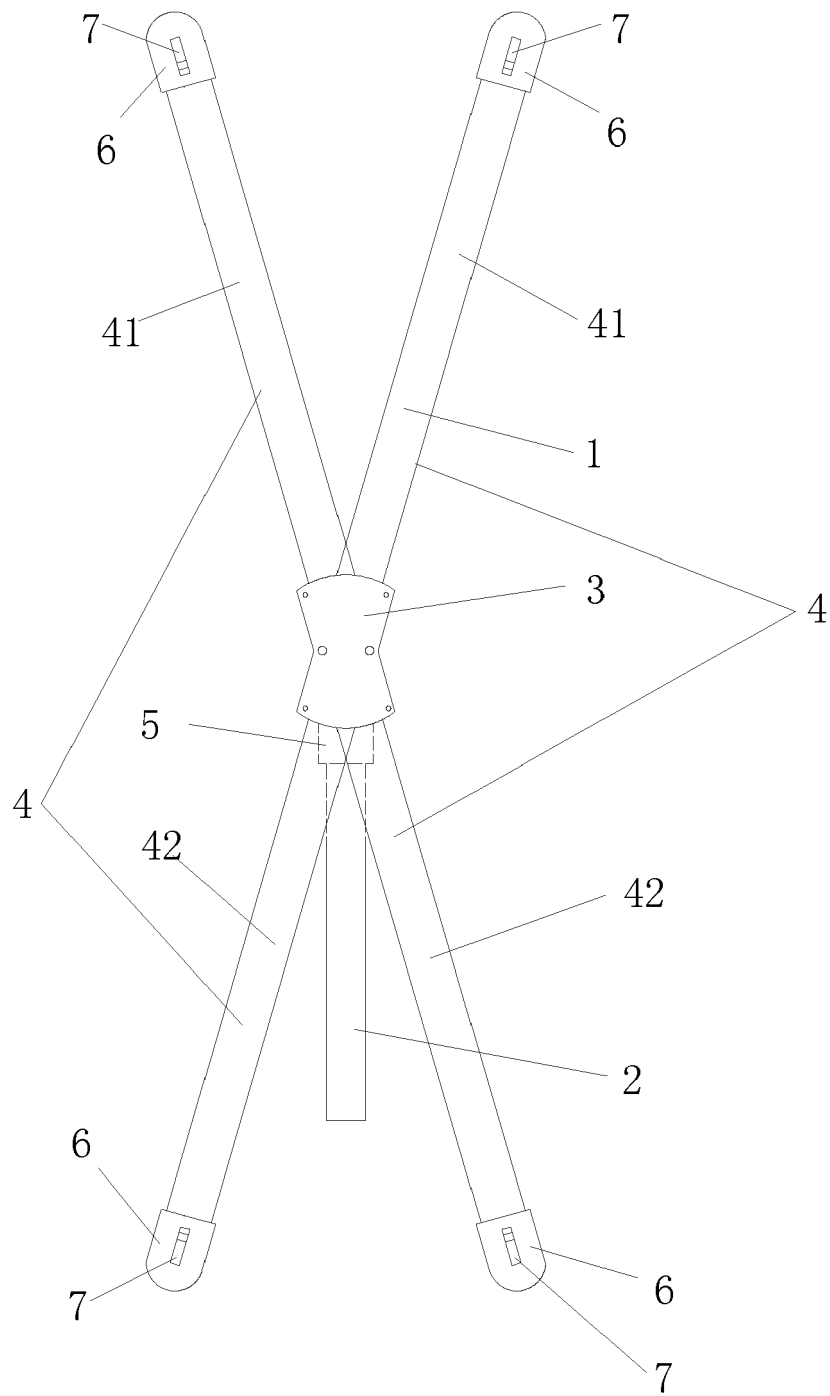


Fig. 1

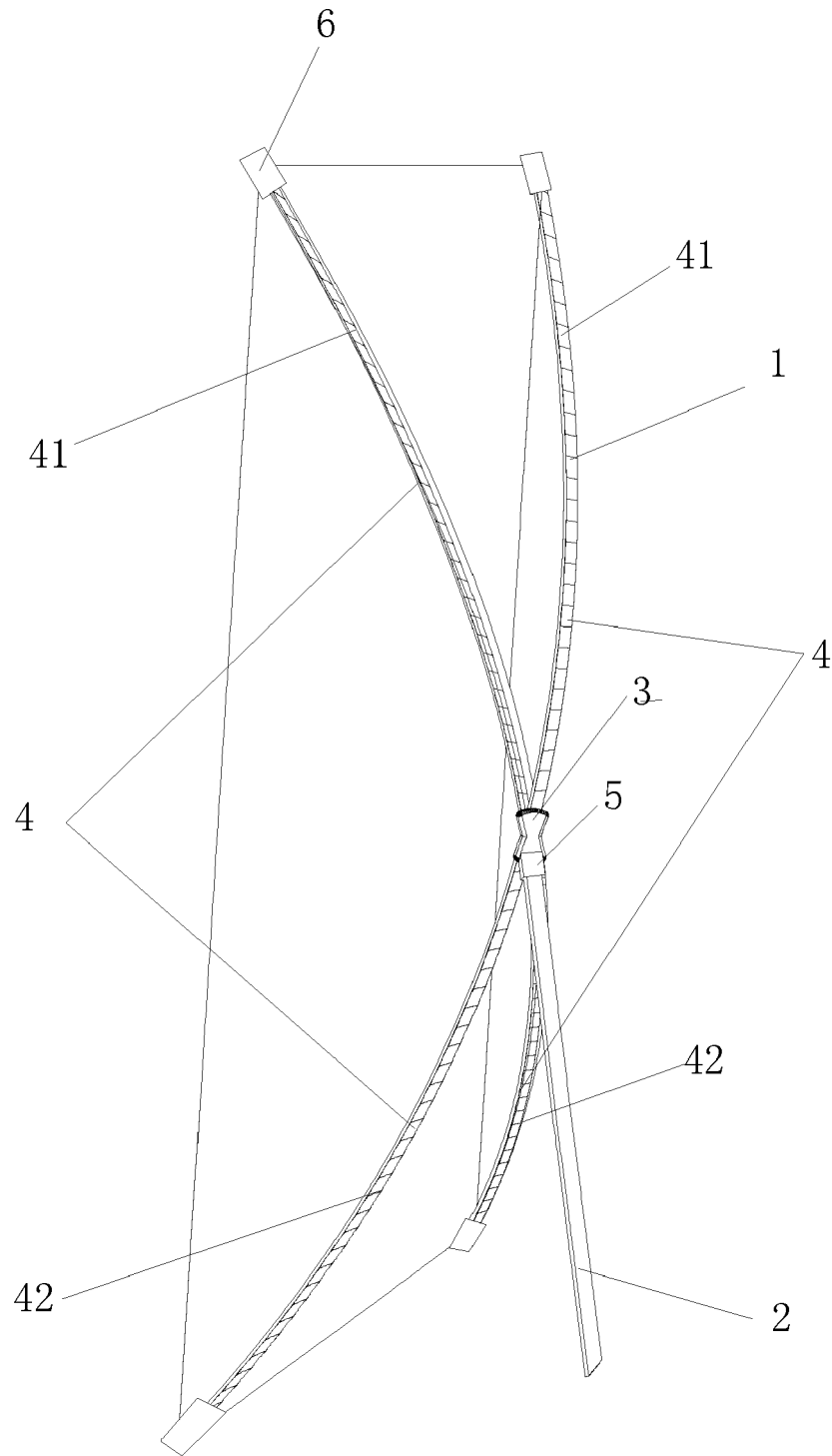


Fig. 2

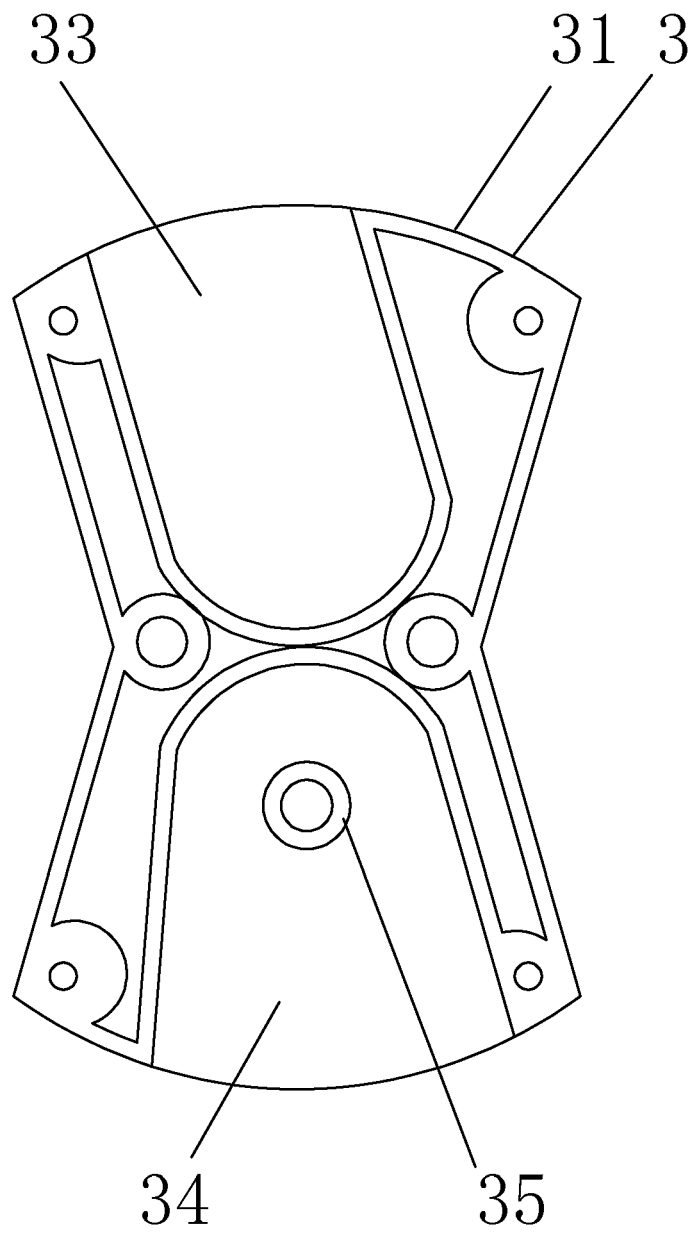


Fig. 3

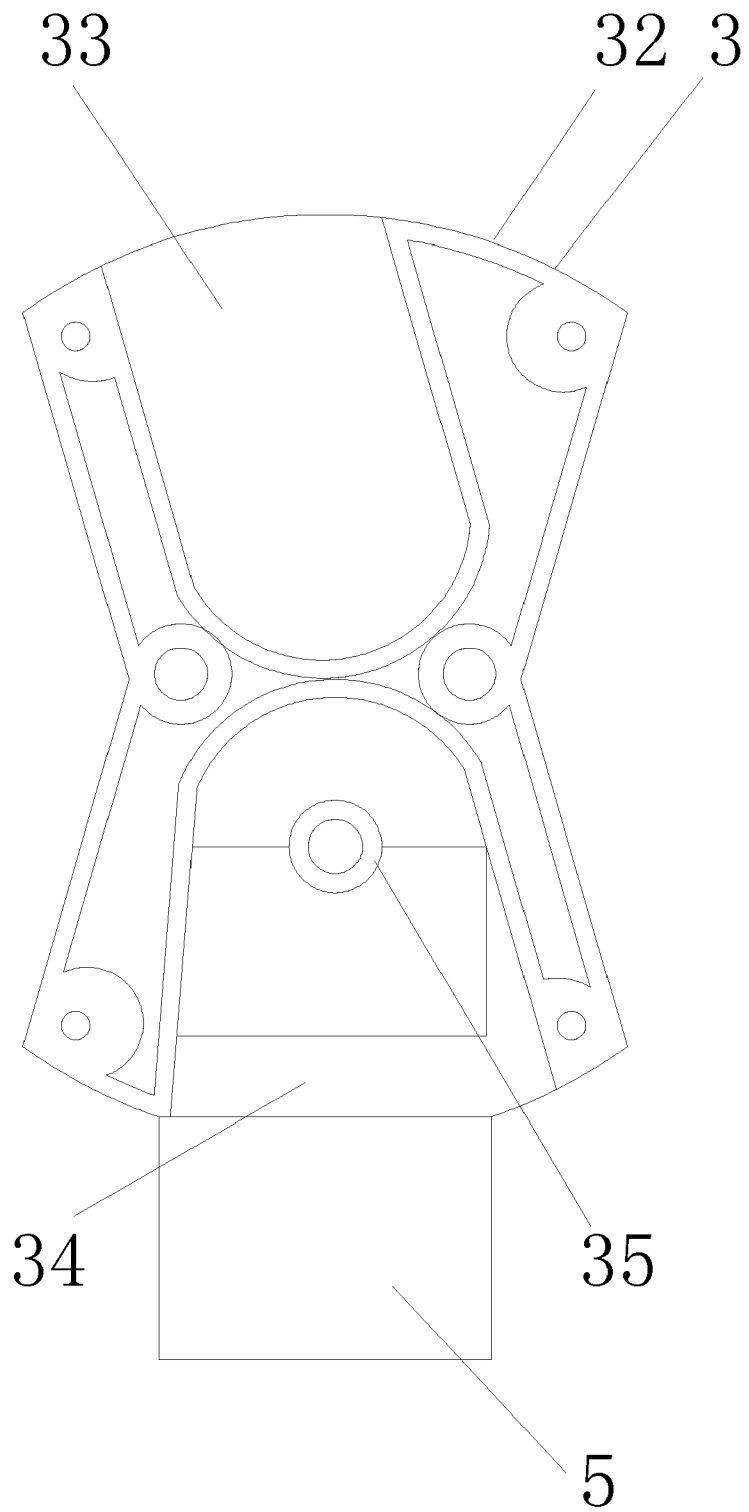


Fig. 4

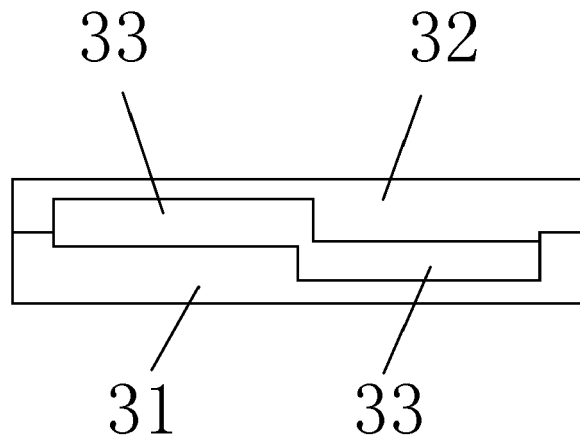


Fig. 5

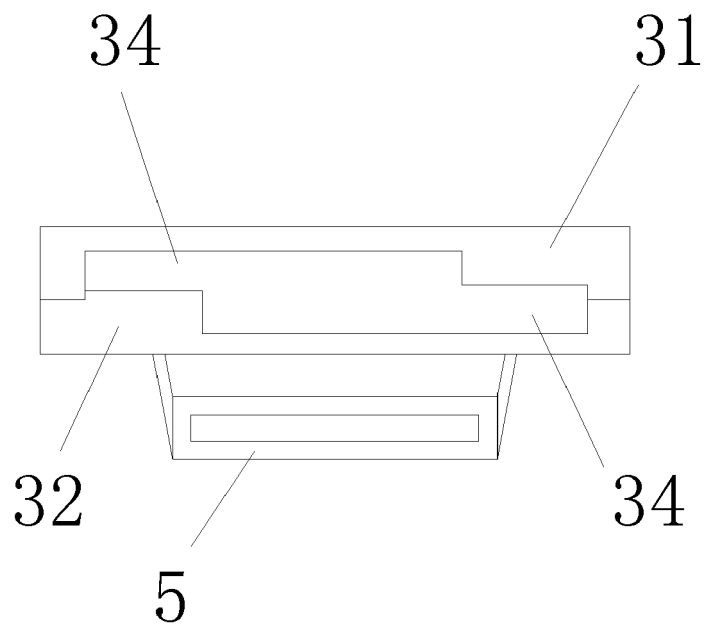


Fig. 6

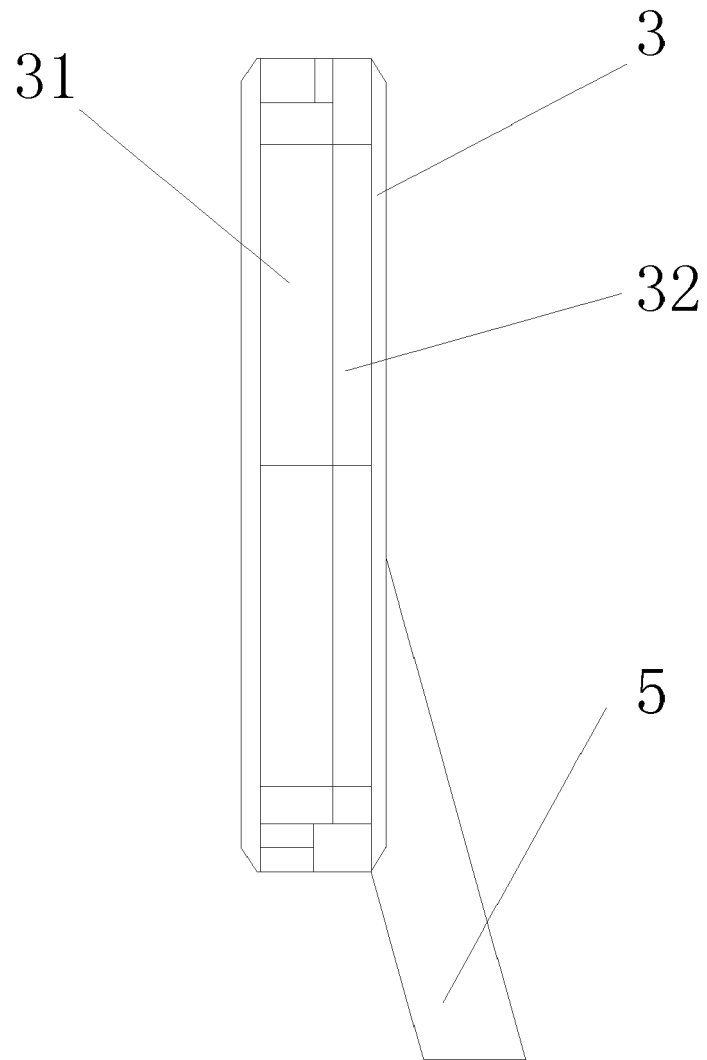


Fig. 7

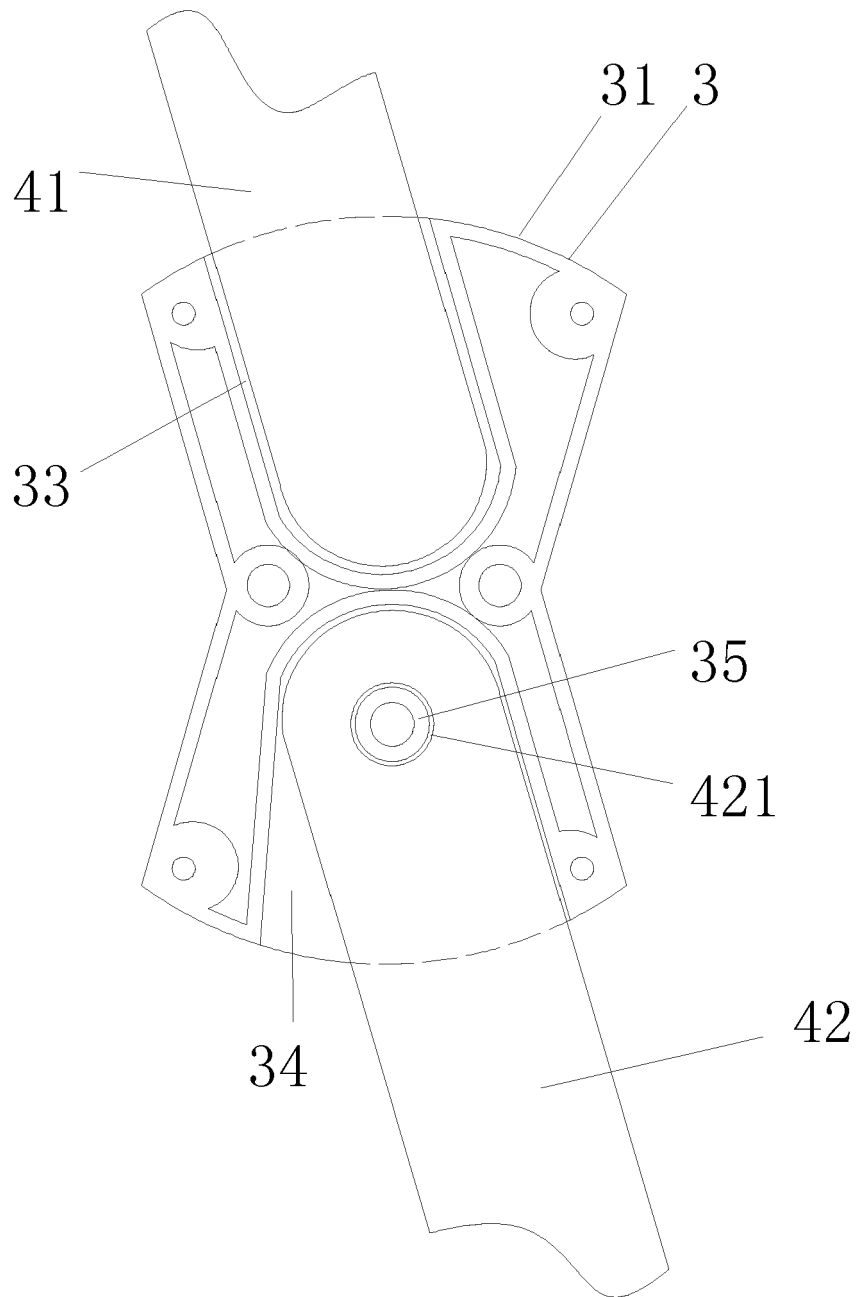


Fig. 8

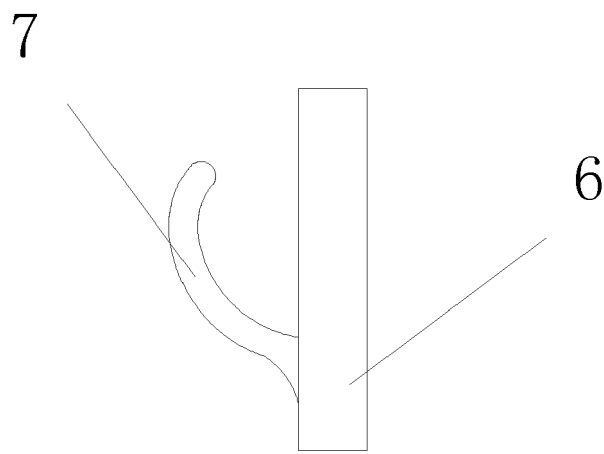


Fig. 9

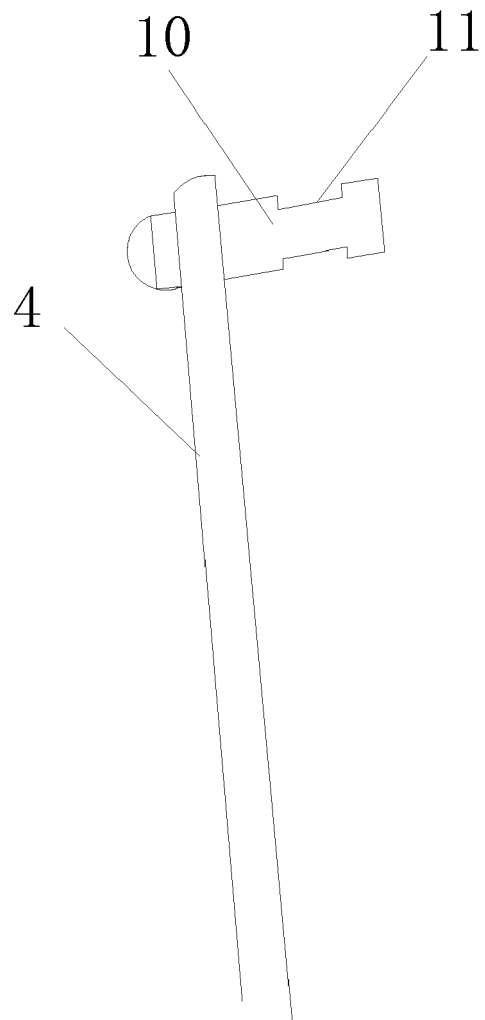


Fig. 10

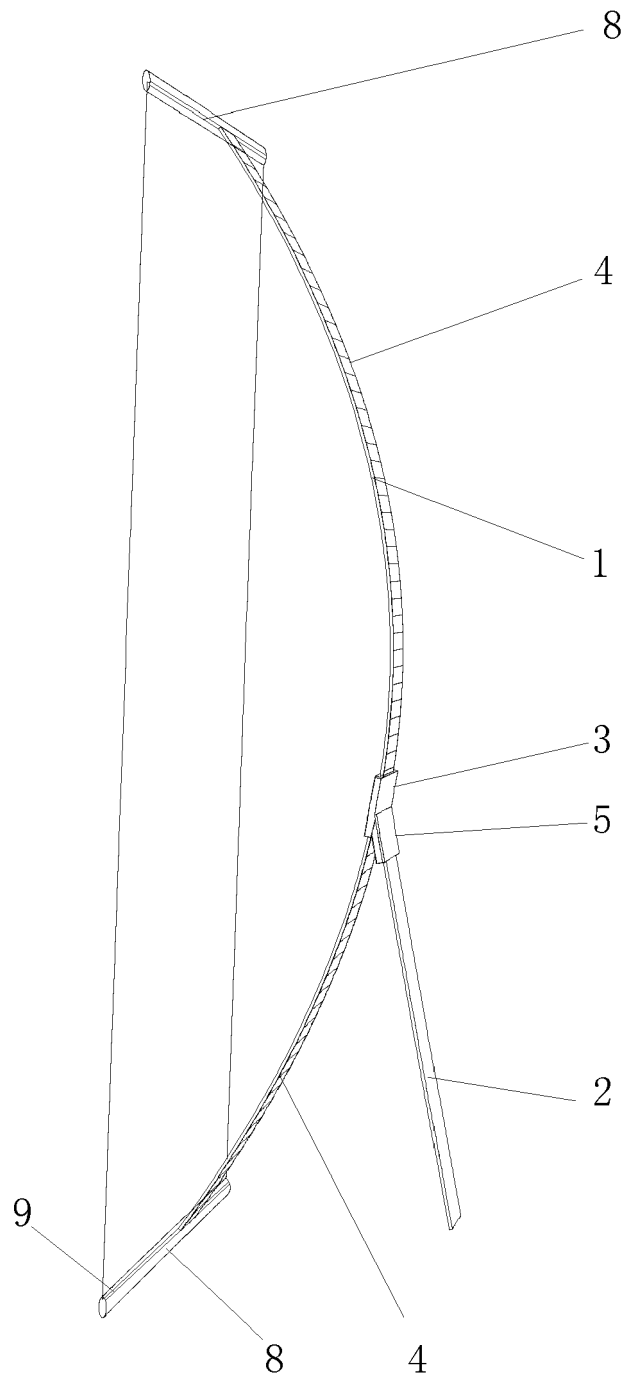


Fig. 11

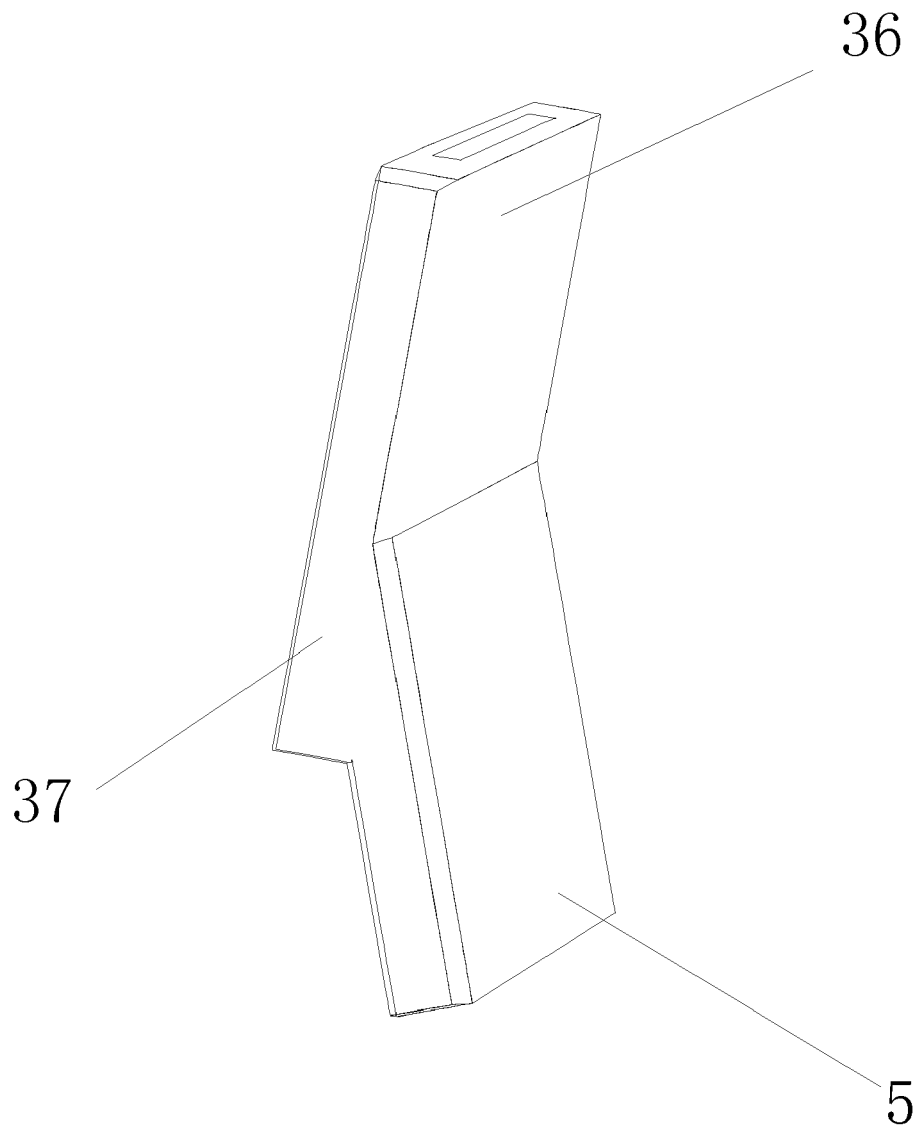


Fig. 12



DOCUMENTS CONSIDERED TO BE RELEVANT				
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Y	WO 2004/025608 A (XSTAND PTY LTD [AU]; BAUMANIS ROBERT ANDREW [AU]; BAUMANIS PAUL MICHAEL) 25 March 2004 (2004-03-25) * page 3, line 5 - page 6, line 7 * * figures 3,4,6,9,10 * -----	1,2		TECHNICAL FIELDS SEARCHED (IPC)
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	The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 14 January 2008	Examiner Pierron, Christophe	
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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
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