

(19)



(11)

EP 2 927 415 A1

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication:
07.10.2015 Bulletin 2015/41

(51) Int Cl.:
E06B 9/326 ^(2006.01) **E06B 9/262** ^(2006.01)

(21) Application number: **14162899.0**

(22) Date of filing: **31.03.2014**

(84) Designated Contracting States:
**AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO
PL PT RO RS SE SI SK SM TR**
Designated Extension States:
BA ME

(71) Applicant: **Ching Feng Home Fashions Co., Ltd.**
506 Changhua County (TW)

(72) Inventor: **Hsu, Sheng-Ying**
506 Changhua County (TW)

(74) Representative: **Chaillot, Geneviève**
Cabinet Chaillot
16-20 Avenue de l'Agent Sarre
B.P. 74
92703 Colombes Cedex (FR)

(54) **Roman shade with covering members to hide the connection rope**

(57) A Roman shade includes a top box in which a control mechanism is located. A shade has its top end connected to the top box. A connection rope has the first end thereof connected to the lower end of the shade, and the second end of the connection rope is connected to the shade and cooperated with the control mechanism

in the top box. The second end of the connection rope eventually connected to the lower end of the shade. At least one covering member is sewed to the shade at multiple sewing positions and located at the inside of the shade to cover the connection rope which is not visible from the inside of the shade.

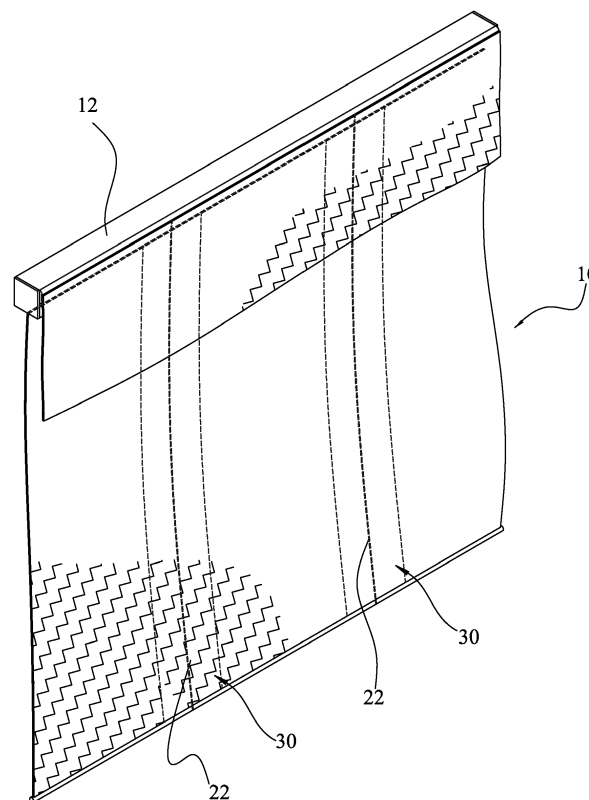


FIG. 1

EP 2 927 415 A1

Description

FIELD OF THE INVENTION

[0001] The present invention relates to a roman shade, and more particularly, to a roman shade with covering members which hide the connection rope.

BACKGROUND OF THE INVENTION

[0002] One of conventional curtains is the Roman shade which includes has one end connected to the top box and the shade has multiple transverse passages defined therethrough. Rods pass through the passages to form multiple sections separated by the rods. There are rings fixed to the seams of the passages. A connection rope is cooperated with the control mechanism located in the top box of the Roman shade and the two ends of the connection rope extend through holes defined through the bottom of the top box and pass through the rings and are fixed to the lower end of the shade. Two control ropes each are cooperated with the control mechanism and located on two sides of the shade so that when the user pulls either one of the two control ropes, the control mechanism is operated to pull connection rope so that the shade is lifted section by section.

[0003] The control ropes are freely hanging on two sides of the shade and these control ropes may trap kids' limbs if kids play the control ropes. Once the kids are trapped by the control ropes, the result might be a disaster.

[0004] In order to improve the shortcomings mentioned above, some of the curtains are developed to be equipped with a cordless control mechanism which do not have the exposed control ropes and the user simply move the bottom bar to set the curtain.

[0005] However, the connection rope of the shade is visible on the shade from the top box to the bottom bar, and the exposed connection rope does not meet the users' requirements of the interior design.

[0006] The present invention intends to provide a Roman shade wherein the connection rope is hidden by covering members which are positioned by way of sewing on the shade.

SUMMARY OF THE INVENTION

[0007] The present invention relates to a Roman shade and comprises a top box in which a control mechanism is located. A shade has a top end connected to the top box. A connection rope has the first end thereof connected to the lower end of the shade, and the second end of the connection rope is connected to the shade and cooperated with the control mechanism in the top box. The second end of the connection rope eventually connected to the lower end of the shade. At least one covering member is sewed to the shade at multiple positions and located at the inside of the shade to cover the connection

rope which is not visible from the inside of the shade. The at least one covering member is connected to the inside of the shade and comprises a first part and a second part. The first end of each of the first and second parts is connected to the top box, and the second end of each of the first and second parts is connected to the lower end of the shade. The connection rope is located between the first and second parts, and the second part is located between the shade and the connection rope.

[0008] Preferably, the first and second parts are sewed to the shade at multiple sewing positions.

[0009] Preferably, at least one covering member is an elongate member which is sewed to the shade at the multiple sewing positions located on two sides thereof.

[0010] Preferably, the at least one covering member is a piece of fabric.

[0011] The primary object of the present invention is to provide a Roman shade with hidden connection rope which is covered by at least one covering member so that the connection rope is not exposed.

[0012] The present invention will become more obvious from the following description when taken in connection with the accompanying drawings which show, for purposes of illustration only, a preferred embodiment in accordance with the present invention.

BRIEF DESCRIPTION OF THE DRAWINGS

[0013]

Fig. 1 is a perspective view to show the Roman shade with the covering members of the present invention, viewed from the outside of the Roman shade;

Fig. 2 is another perspective view to show the Roman shade with the covering members of the present invention, viewed from the inside of the Roman shade;

Fig. 3 is a side view to show position relationship between the covering member, the connection rope and the shade;

Fig. 4 is an enlarged view to show that the covering member is sewed to the shade, and

Fig. 5 shows that the Roman shade is collected upward.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0014] Referring to Figs. 1 to 4, the Roman shade of the present invention comprises a top box 12 in which a control mechanism (not shown) is located. A shade 10 has the top end thereof connected to the top box 12 and the lower end can be lowered relative to the top box 12.

[0015] A connection rope 22 has the first end thereof connected to the lower end of the shade 10, and the second end of the connection rope 22 is connected to the shade 10 and cooperated with the control mechanism in the top box 12, the second end of the connection rope 22 then extends out from the top box 12 and is connected

to the lower end of the shade 10. When the user pushes bottom bar at the lower end of the shade 10, the control mechanism operates the connection rope 22 so that the shade 10 is lifted and positioned at the desired position when the user releases the bottom bar. The shade 10 is lowered when the user pulls the bottom bar downward.

[0016] Two covering members 30 are connected to the inside of the shade 10 and each comprise a first part 31 and a second part 32. In this embodiment, each of the covering members 30 is a piece of fabric. The first end of each of the first and second parts 31, 32 is connected to the top box 12, and the second end of each of the first and second parts 31, 32 is connected to the lower end of the shade 10. The connection rope 22 is located between the first and second parts 31, 32, and the second part 32 is located between the shade 10 and the connection rope 22. The covering members 30 each are an elongate member. The first and second parts 31, 32 are sewed to the shade 10 at multiple sewing positions 40. In detail, each of the covering members 30 is an elongate member which is sewed to the shade 10 at the sewing positions 40 located on two sides thereof.

[0017] The covering members 30 each are wide enough to completely hide the connection rope 22 from the people in the room. Besides, the covering members 30 also decorate the shade 10. As shown in Fig. 5, when the user lifts and collects the shade 10, the shade 10 is lifted and folded at the sewing positions 40.

[0018] While we have shown and described the embodiment in accordance with the present invention, it should be clear to those skilled in the art that further embodiments may be made without departing from the scope of the present invention.

Claims

1. A Roman shade having a top box in which a control mechanism is located, comprising:

a shade having a top end adapted to be connected to the top box;

a connection rope having a first end connected to a lower end of the shade, a second end of the connection rope connected to the shade and adapted to be cooperated with the control mechanism in the top box, the second end of the connection rope connected to the lower end of the shade, and

at least one covering member connected to an inside of the shade and comprising a first part and a second part, a first end of each of the first and second parts adapted to be connected to the top box, a second end of each of the first and second parts connected to the lower end of the shade, the connection rope located between the first and second parts, the second part located between the shade and the connection

rope.

2. The Roman shade as claimed in claim 1, wherein the first and second parts are sewed to the shade at multiple sewing positions.
3. The Roman shade as claimed in claim 2, wherein the at least one covering member is an elongate member which is sewed to the shade at the multiple sewing positions along two sides thereof.
4. The Roman shade as claimed in claim 1, wherein the at least one covering member is a piece of fabric.

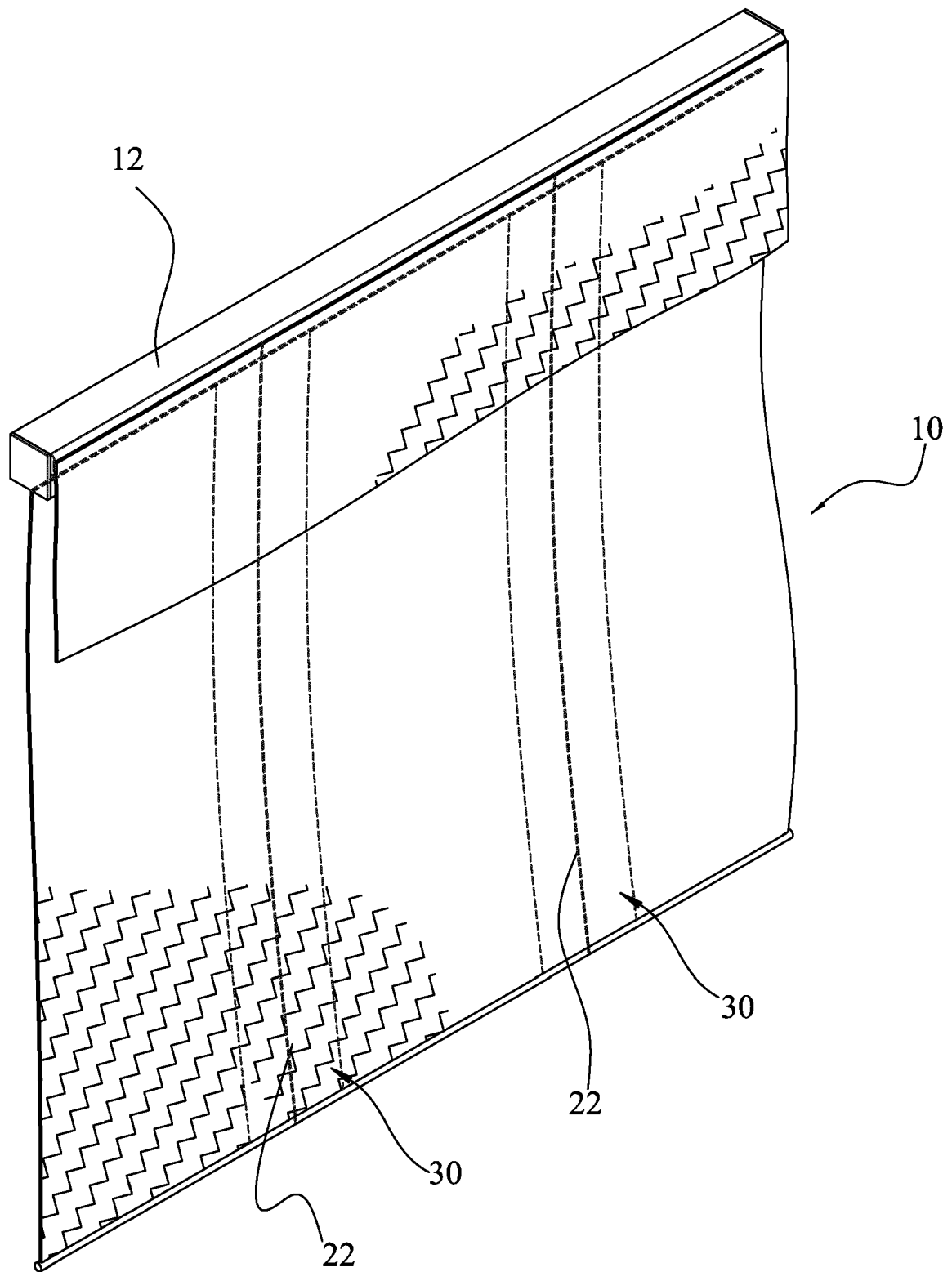


FIG. 1

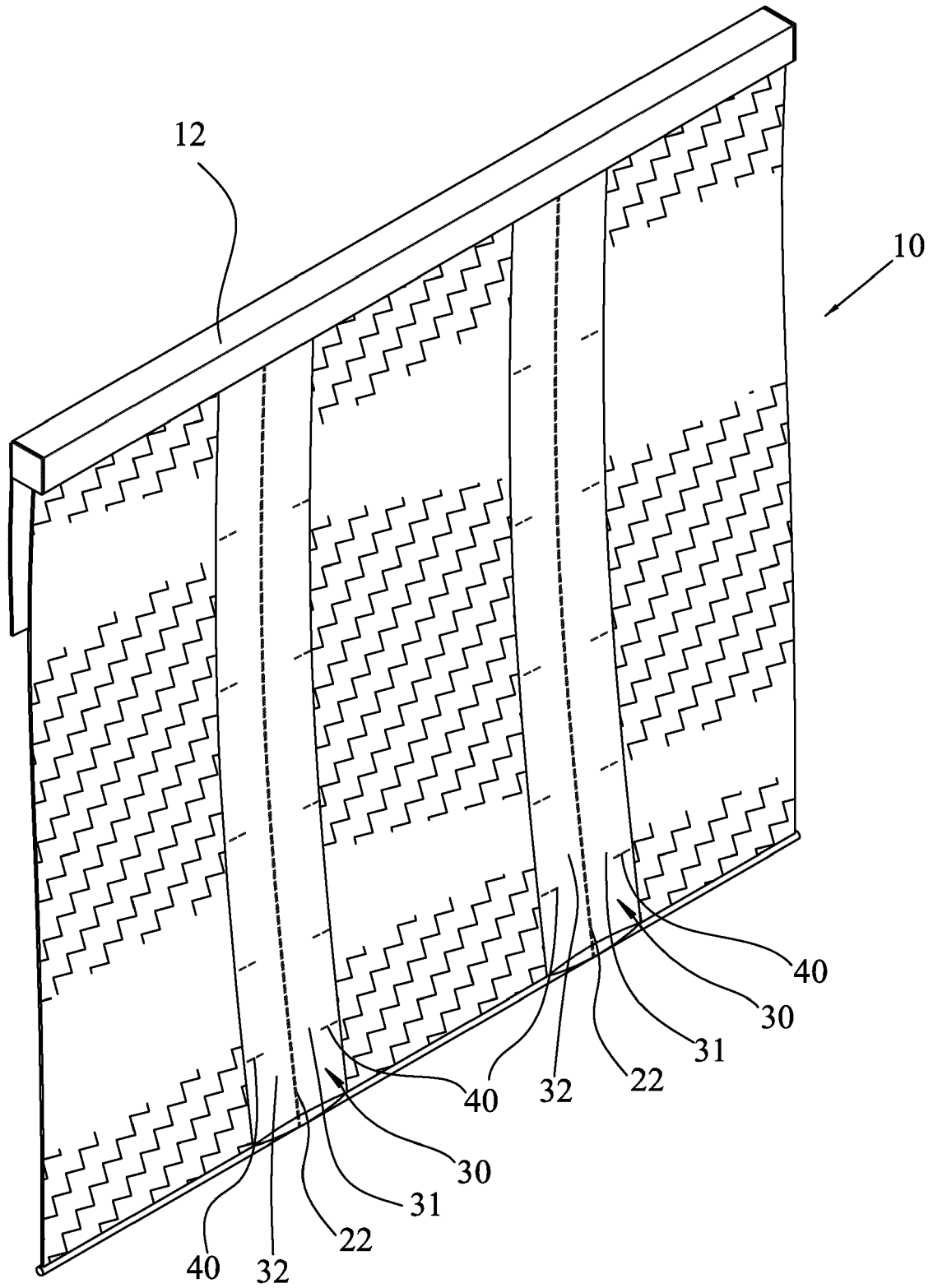


FIG. 2

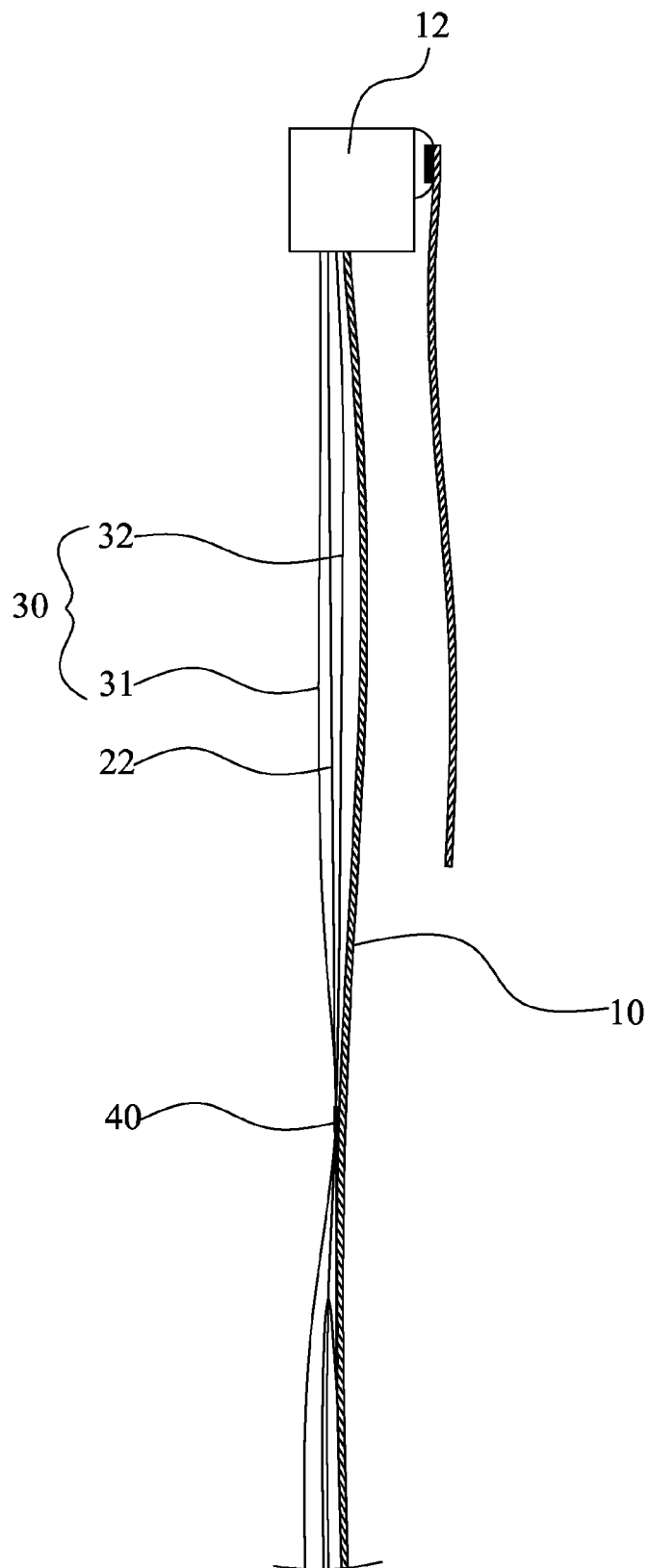


FIG. 3

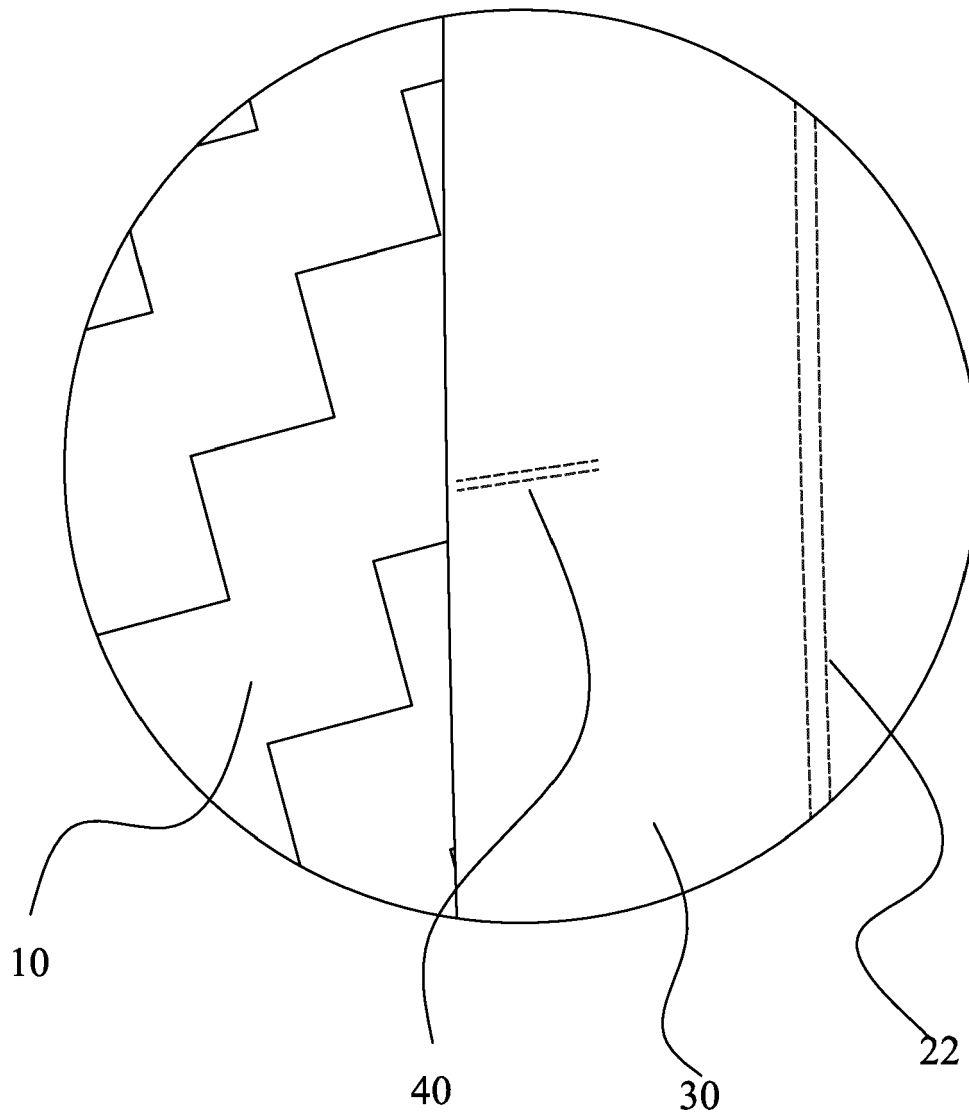
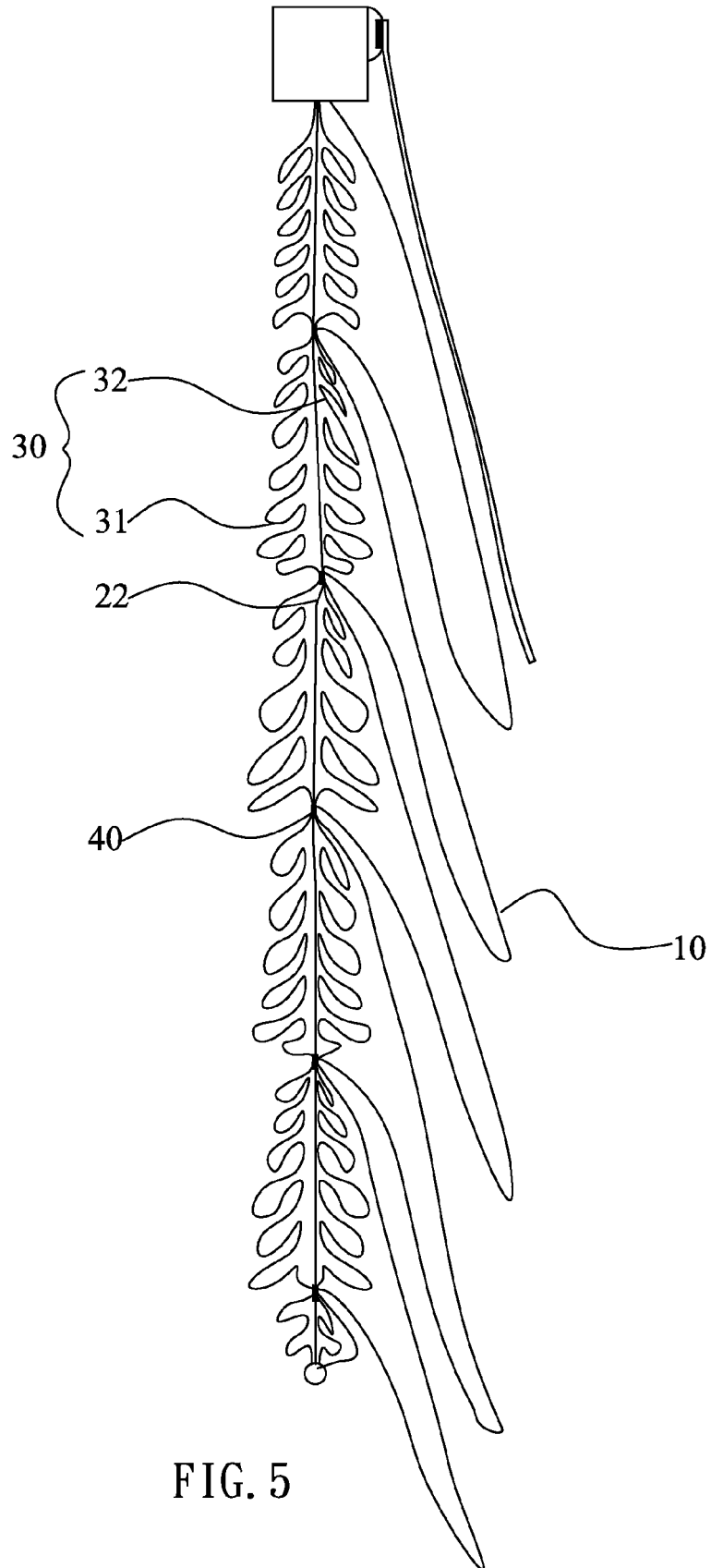


FIG. 4





EUROPEAN SEARCH REPORT

Application Number
EP 14 16 2899

5

10

15

20

25

30

35

40

45

50

55

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2012/193043 A1 (BISHOP RYAN BARCLAY [US] ET AL) 2 August 2012 (2012-08-02) * paragraphs [0054] - [0055], [0061], [0063]; figures 11,17 *	1-4	INV. E06B9/326 E06B9/262
X	US 2010/186903 A1 (LIANG WEN YING [TW] ET AL) 29 July 2010 (2010-07-29) * paragraphs [0023] - [0024]; figures 6-9 *	1-4	
			TECHNICAL FIELDS SEARCHED (IPC)
			E06B
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 1 September 2014	Examiner Kofoed, Peter
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

 1
EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 14 16 2899

5

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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

01-09-2014

10

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2012193043 A1	02-08-2012	NONE	
US 2010186903 A1	29-07-2010	NONE	

15

20

25

30

35

40

45

50

55

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82