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(54) **Cloth covered blade for transverse type venetian blind.**

(57) A cloth covered blade (10) for transverse type Venetian blind, wherein a lining of elastic film (11) is covered with a cloth (12) on both sides by means of adhesive to form a sheet, said sheet being further tightly sewed up to reinforce the adhesion of the cloth (12) to the lining and to increase its strength, the well sewed sheet being further made into curved shape by means of roller ramming process, the curve-shaped sheet thus obtained being further cut into proper length to form cloth covered blade (10) for making a variety of colorful and transverse type Venetian blind.

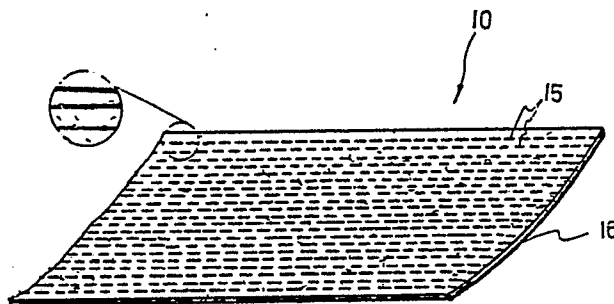


FIG. 3

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CLOTH COVERED BLADE FOR TRANSVERSE TYPE VENETIAN BLIND

BACKGROUND OF THE INVENTION

The present invention is related to a cloth covered blade for transverse type Venetian blind, which makes use of innovative material through special manufacturing process to produce seamed or seamless cloth blades for making Venetian blind so as to let Venetian blind provide color variation, wherein cloth material is used to cover a lining of elastic film for manufacturing of transverse type Venetian blind to make the structure of the blind more attractive.

Following fast increasing of personal income, people tend to enjoy high quality living standard. Fine and quality products have become the main stream of the fashion. Either furnitures or indoor decorative items, people would prefer to buy quality ones. Among indoor decorations, window blind is a very popular item. When to install a window blind, people may consider the material used, the color and the pattern of a blind provided for selection. Regular Venetian blinds include a vertical type and a transverse type. Due to structural problem, the materials used for making transverse type Venetian blind are still confined to plastic or aluminum. However, plastic or aluminum made Venetian blind is either expensive or easy to get aged, which provides little variation in color assortment, or the painting of which is easy to fade, or it is difficult to wash when dirtied (while washing, the blades may be scratched). More particularly to aluminum blades, when they are hit or bent, the painting on the blades is easy to drop to leave rugged tracks on the surface. Further, either plastic or aluminum blades, the color is additionally painted. Therefore, to blind manufacturers, they may have to learn about color arrangement so as to produce beautiful and elegant window blinds. For the reason said, there is a strong demand for innovative materials and manufacturing process to produce window blinds in a more practical way. The present invention is thus created by the present inventor to provide cloth covered blades and its manufacturing method for further production of transverse type Venetian blind.

The above described and other objects, features, and advantages of the present invention will be more apparent from the following description quoted on the basis of annexed drawings as hereunder.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a production flow chart for manu-

facturing a cloth covered sheet for Venetian blind according to the present invention.

Figure 2 is another production flow chart for manufacturing another kind of cloth covered sheet for Venetian blind according to the present invention.

Figure 3 is a perspective view drawing of a cloth covered sheet for Venetian blind according to the present invention.

Figure 4 is a fragmentary view drawing of a cloth covered sheet for Venetian blind according to the present invention.

Figure 5 is a partially sectional view drawing of a cloth covered sheet for Venetian blind according to the present invention.

Figure 6 illustrates a transverse type Venetian blind embodying the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring to Figure 1, the manufacturing process of cloth covered blade for Venetian blind according to the present invention is as hereunder.

1. Select an elastic film as for lining;
2. Attach one layer of cloth respectively on both sides of the lining by means of adhesive to let the lining be fully enclosed;
3. Sew up the cloth covered sheet by means of sewing machine to let the cloth and the lining be tightly stuck together and to let the prepared sheet become practical for light to penetrate.
4. Use roller to press the sheet into circular shape to reinforce the strength.
5. Cut the sheet into proper size to form into cloth covered blades ready for further production of window blind.

Referring to another production flow chart of the present invention as shown in Figure 2, wherein the procedures are same as the above said as illustrated in Figure 1 except the step 2. In this embodiment, the step 2 is to weave a fabric on the selected elastic sheet to let the sheet be covered within the fabric, so as to form a seamless cloth covered sheet for further stitching and cutting process.

Further, the cloth covered sheets, either seamed type or seamless type, may be treated by means of pressuring, punching, heating, adhesion, ultrasonic weave adhesion, stitching, or ejection process or the combination of said process made through laser or other mechanical device to finish the hem around the border, so as to reinforce the structure and to make it more attractive and precious.

Referring to Figures 3 and 4, the structure of the blade (10) according to the present invention, comprises an elastic film (11) covered with cloth (12) wherein adhesive (13) is used to stick the elastic film (11) and the cloth (12) together. The blade (10) is sewed up finely and delicately to provide fine and delicate stitches (15) regularly on the surface wherein the stitching holes are provided for light to penetrate therethrough to make the blade (10) become light-penetrative to provide suitable indoor lighting when in application. The blade (10) is treated through pressure rolling process to provide archshaped curvature (16) to reinforce the strength of the structure.

Referring to Figure 5, it is directly to weave yarns into a fabric over an elastic film (11) to let the film be directly enclosed by the fabric (4), so as to form a seamless cloth covered blade for Venetian blind.

Referring to Figure 6, when in application to build up cloth covered blades of the present invention into a transverse type Venetian blind, it is to use a thread (20) or cord to connect a plurality of blades (10) at both ends by means of series connection. The connected series of blades (10) is further suspended from a cross beam (30). The suspended series of blades is further hung on a window by means of a support (40). By means of said arrangement, a soft, colorful, easy-to-wash, and inexpensive window blind is thus completed, which provides various advantages as described hereunder.

1. The elastic lining allows the blade (10) to provide high elasticity, such that the blade (10) will not be damaged and will immediately return back to original shape when it is hit or bent.

2. The outer surface of the blade (10) is covered with cloth material (12) which provides much more color variation and assortment to fully satisfy consumers' preference. Further, the soft cloth (12) does not hurt user's hands, and even if the blade (10) is scratched, the coloring of the blade (10) will not be damaged.

3. Through stitching process, the elastic film (11) and the cloth (12) are closely sewed up together. The fine and delicate stitches (15) make the blade (10) more attractive. If to place the blade (10) below a lamp or sun light, you can see that fine rays or light are penetrating through the stitch holes. Therefore, the blade (10) is also light-penetrative.

In general, the present invention is to provide such a cloth covered blade for transverse type Venetian blind having numerous features, each of which tends to make the structure more practical, utilitarian, attractive, and inexpensive to manufacture and durable in use.

Claims

1. A cloth covered blade for transverse type Venetian blind, having a curved, prolonged and sheet-like configuration which is to stick a cloth on the both sides of a lining of elastic film, said cloth covered film being further sewed up by sewing machine finely and delicately to let the elastic film and the cloth be tightly attached together and to let the finished blade become applicable for light to penetrate.

2. A cloth covered blade for transverse type Venetian blind as claimed in Claim 1 wherein the cloth is directly woven around the elastic film to let the film be enclosed by means of seamless cloth.

3. A cloth covered blade for transverse type Venetian blind as claimed in Claim 1 wherein the manufacturing process for such a cloth covered blade includes said procedures;

(1) selecting an elastic film as for lining;

(2) attaching one layer of cloth respectively on both sides of the lining by means of adhesive to let the lining be fully enclosed;

(3) sewing up the cloth covered sheet by means of sewing machine to let the cloth and the lining be tightly stuck together and to let the prepared sheet become practical for light to penetrate;

(4) using a roller to press the sheet into curved shape to reinforce the strength of the structure;

(5) letting the sheet be cut into proper size to form into cloth covered blade ready for further production of window blind.

4. A cloth covered blade for transverse type Venetian blind as claimed in Claim 3 wherein the manufacturing process of step (2) is to weave a fabric on the selected elastic sheet to let the sheet be covered within the fabric, so as to form a seamless cloth covered sheet for further stitching and cutting process.

5. A cloth covered blade for transverse type Venetian blind as claimed in Claim 1 wherein the cloth covered sheet, either seamed type or seamless type, is treated by means of pressuring, punching, heating, adhesion, ultrasonic weave adhesion, stitching, or ejection process or the combination of said process made through laser or other mechanical device to finish the hem around the border, so as to reinforce the structure and to make it more attractive and precious.

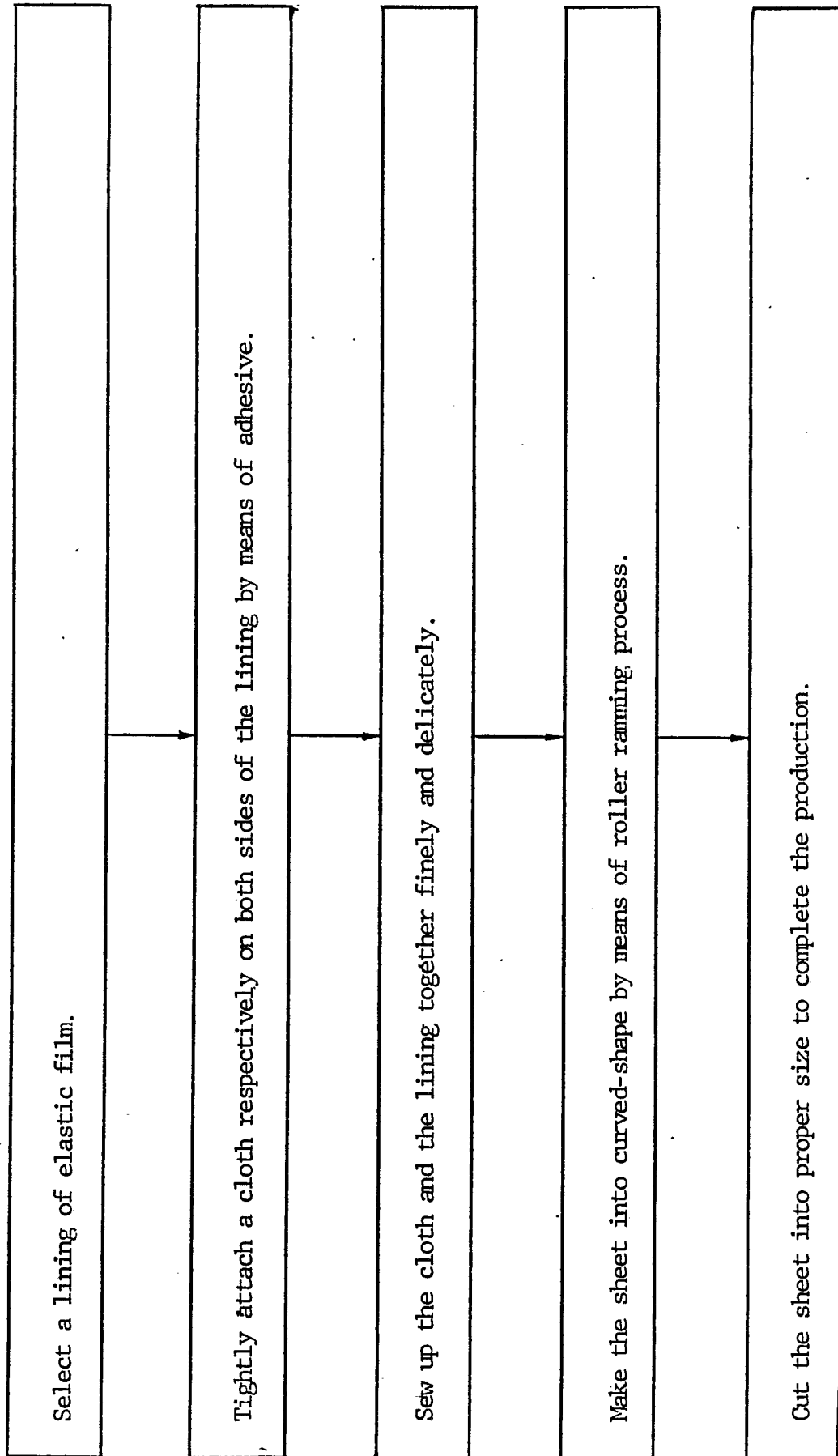


FIG. 1

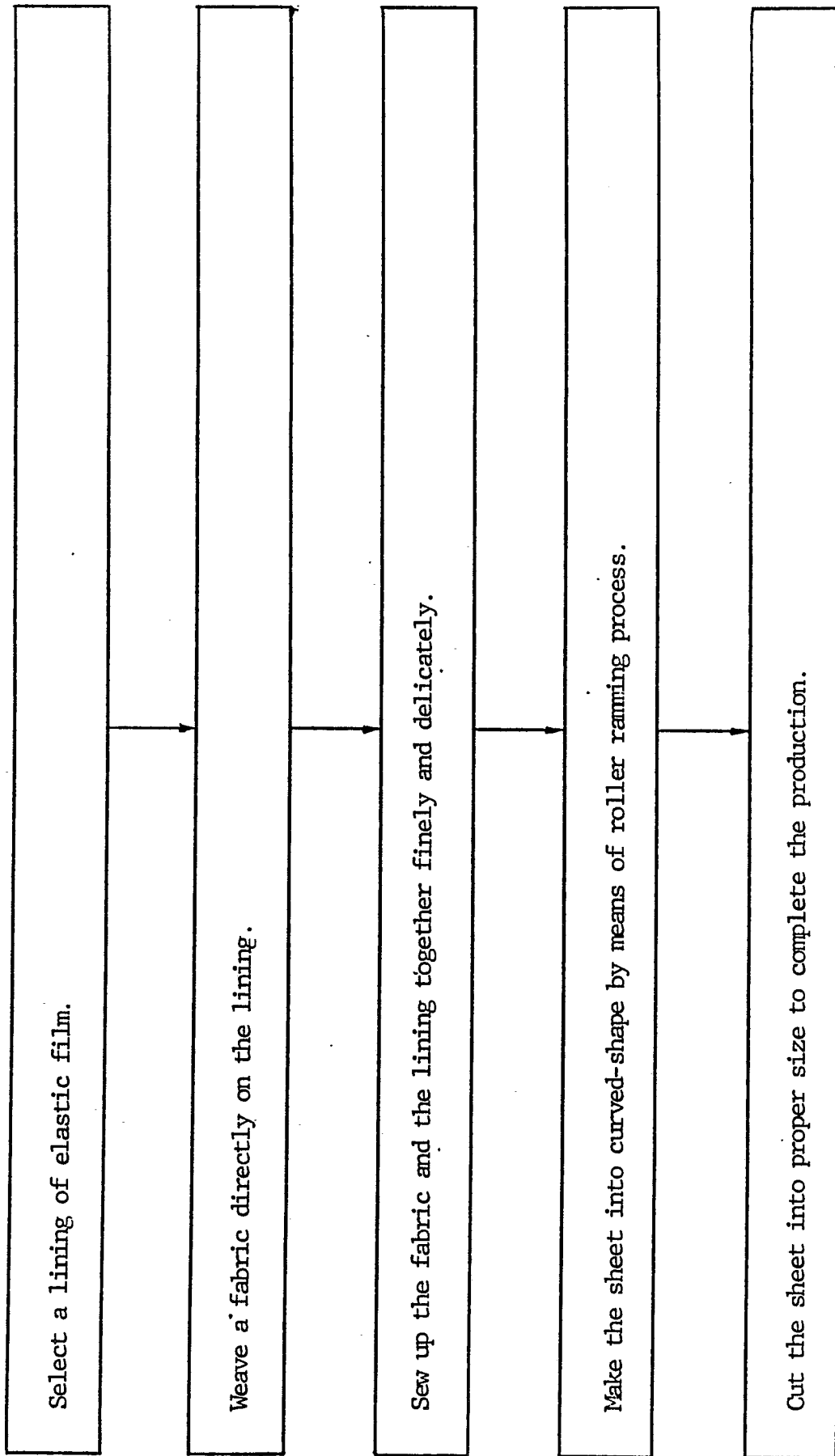


FIG. 2

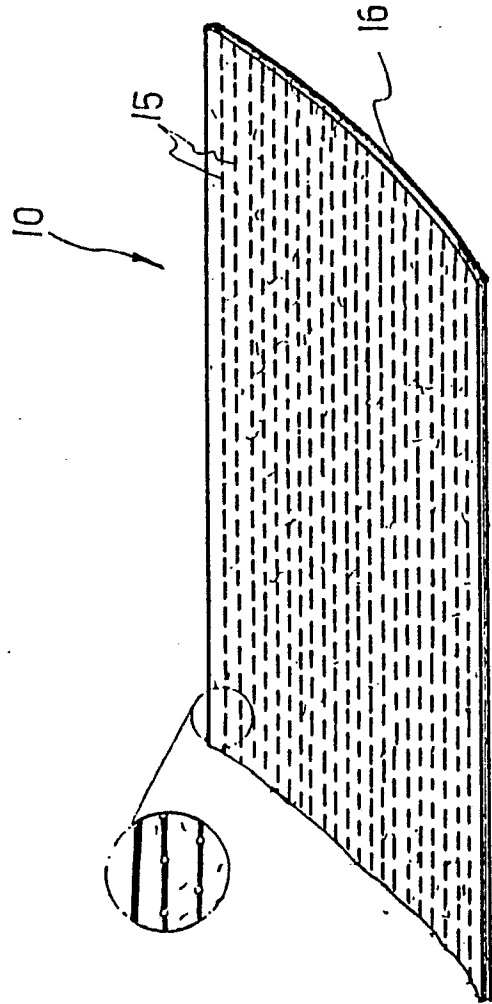


FIG. 3

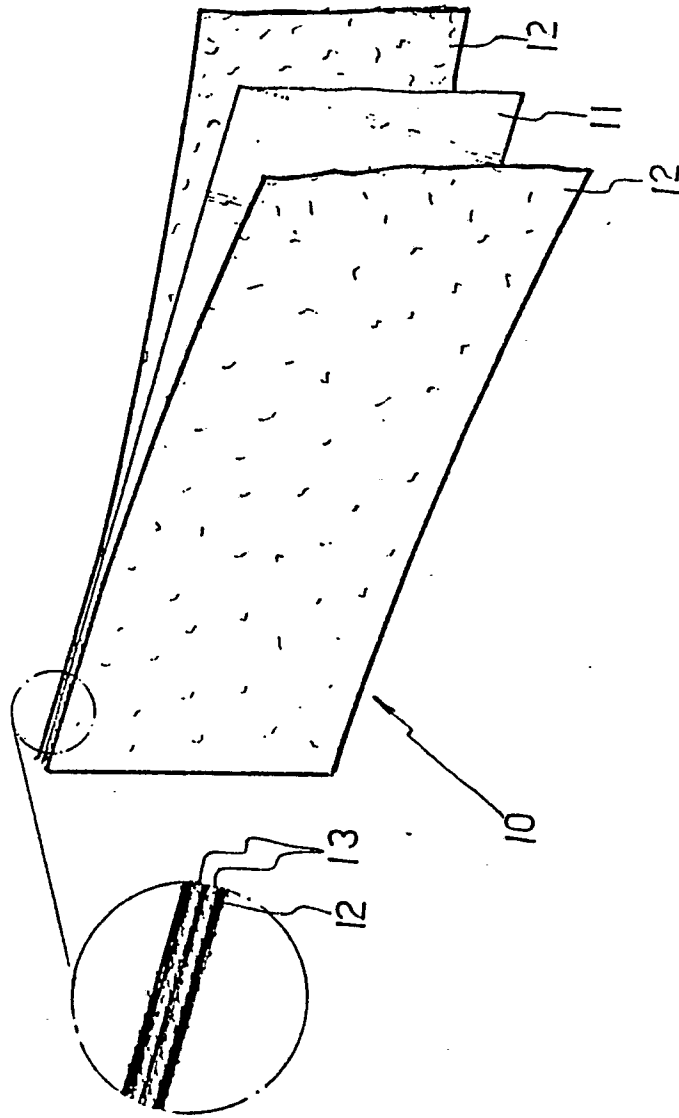


FIG. 4

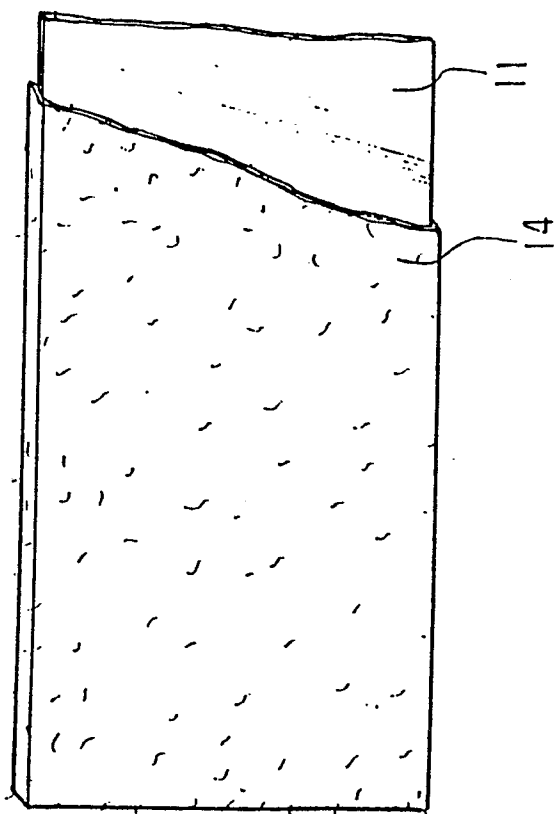


FIG. 5

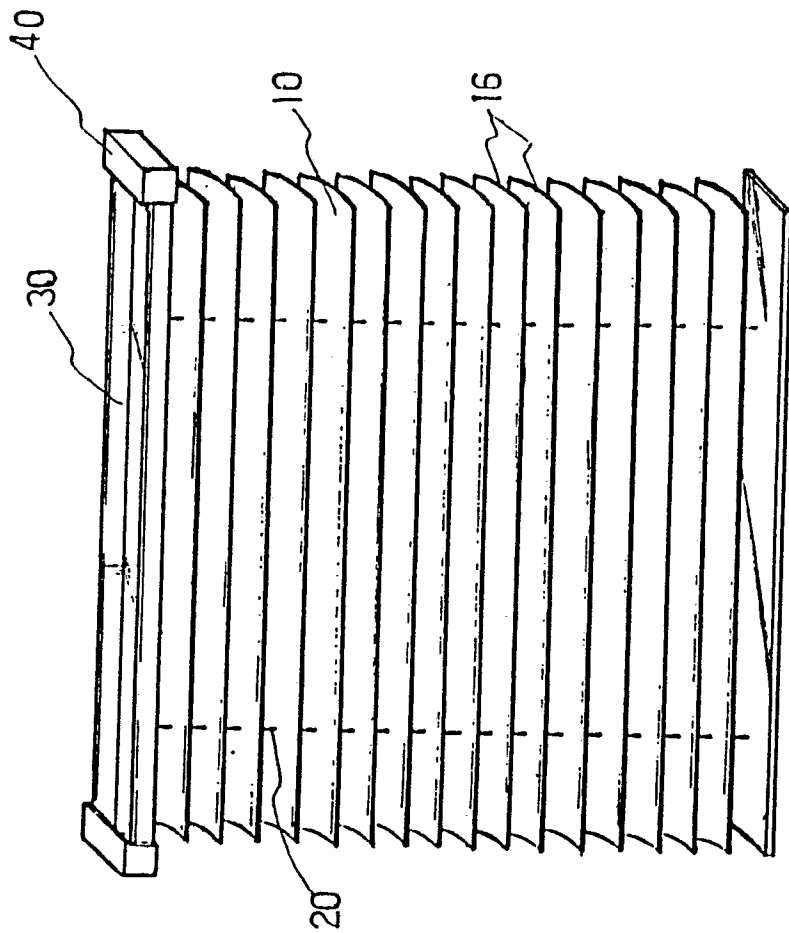


FIG. 6



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	US-A-4 519 435 (K. STIER) * complete document * ---	1,3,5	E 06 B 9/386
A	DE-A-3 207 850 (TV-MAIN ROLLO GMBH) * figures 1-6; page 6, paragraph 3 * ---	1,2,5	
A	EP-A-0 228 937 (J. GARIN) * complete document * -----	1,3,5	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			E 06 B 9/00
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 06-07-1989	Examiner KRABEL A.W.G.
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			