Sept. 15, 1953 R. H. WRIGHT 2,652,114

TAPE SUPPORT FOR VENETIAN BLINDS

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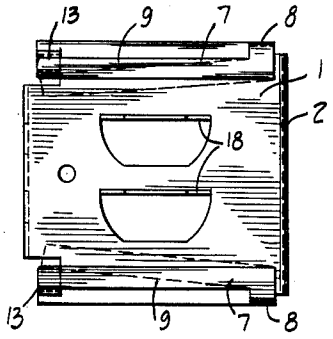


FIG. 1

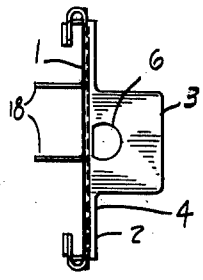


FIG. 2

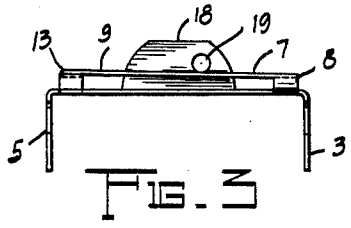


FIG. 3

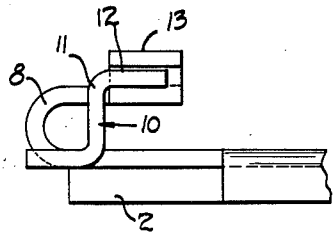


FIG. 4

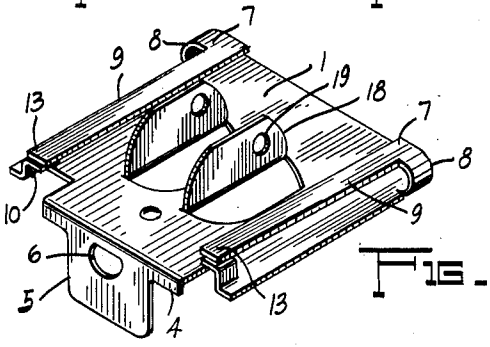


FIG. 5

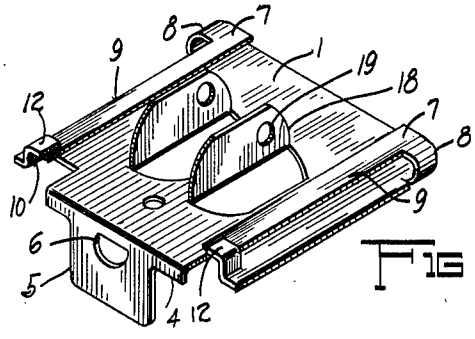


FIG. 6

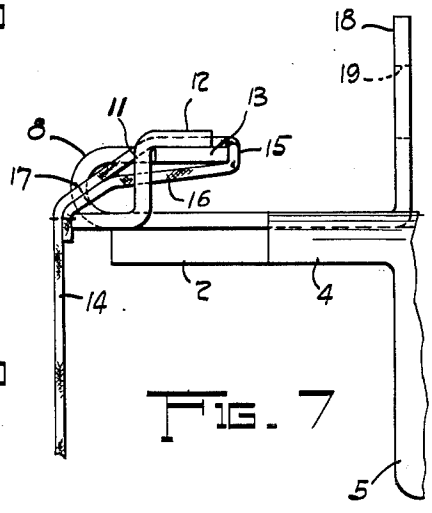


FIG. 7

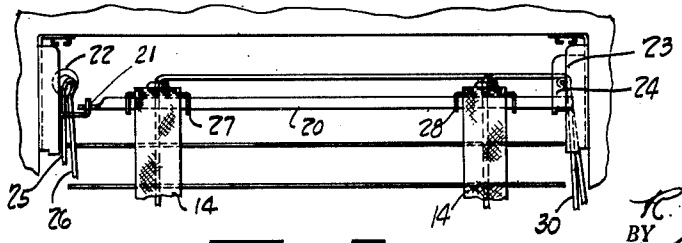


FIG. 8

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TAPE SUPPORT FOR VENETIAN BLINDS

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Application May 14, 1952, Serial No. 287,665

4 Claims. (Cl. 160—178)

1

This invention relates to Venetian blinds and more particularly to certain novel tape supporting devices suitable for use therewith.

More particularly, the tape supporting devices are suitable for use in Venetian blinds which avail of a metal head unit although the means for connecting the tapes to the supports may be availed of in other types of blinds.

In general the tape supports of this invention are intended to be supplied where it is desirable to use a combination head bar and tilt rail, which head bar and tilt rail includes a main supporting member which is carried at one end by the usual tilting device, and at the other end mounted for rotation in or on a bracket or a combination bracket and cord lock as is commonly provided at the present time. The tape supports which constitute this invention are in turn carried upon the main supporting element, whereby the Venetian blind tapes are attached thereto and depend therefrom, the usual slats being carried in the tapes on the ladders thereof.

In the construction above generally outlined, the tapes as supported, are adaptable for manipulation into various positions for regulating light and air as is commonly known. The particular tape supports are supplied so as to be readily available for attaching and detaching the tapes thereto, as occasion requires, the tapes being provided themselves with loops at the ends thereof for engaging with supports of this invention.

With the foregoing in mind, it is a principal object of this invention to provide a novel form of tape support, which is readily formed of metal or the like, and includes suitable provisions for quickly attaching and detaching tapes therefrom, the tapes being provided with loops suitably formed at the ends thereof.

A further object of this invention is to provide a novel form of locking arrangement, which will prevent the tapes from slipping off of the support and permitting the blind to be actuated as is customarily desired, without the necessity of using loose parts or other attachable or detachable parts which might become lost or otherwise damaged in handling during assembly or disassembly of the blinds.

It is a further object of this invention to provide the tape supports in novel form, whereby the same may be made of integral construction including elements which are struck out of the body of the support, and moved into position by bending or otherwise, whereby the attributes desired to be accomplished are available.

Other and further objects of this invention will

2

be understood from a consideration of the specification appended hereto, and shown in the drawing, wherein:

Figure 1 is a top plan view of a tape support formed in accordance with this invention.

Figure 2 is an end view of the support shown in Figure 1, further illustrating the form of the device.

Figure 3 is a side view, in elevation, of the device, shown in Figure 1, further illustrating the general conformation.

Figure 4 is an enlarged fragmentary view, taken from one end of Figure 1 near the corner thereof, and illustrating the latch elements which are provided.

Figure 5 is a perspective view showing the support with the tape loop engaging elements in one position.

Figure 6 is a perspective view, similar to Figure 5, showing the tape loop engaging members in another position.

Figure 7 is a greatly enlarged fragmentary view, somewhat similar to the disclosure of Figure 4, showing the manner of engagement of the tape loop by the loop engaging member; the same being in locked or fully engaged position with the latch element.

Figure 8 is a somewhat diagrammatic view, showing a portion of a Venetian blind as mounted in a window, and generally indicating the manner of use of the tape supports of this invention.

As shown in Figure 1, the tape support of this invention includes a body designated 1, of substantially rectangular outline, the same being preferably formed of light gauge metal or the like. As shown in Figures 1, 2 and 3, the end at the right in Figure 1 is bent downwardly so as to form a skirt designated 2, from which a mounting lug designated 3 extends to a somewhat lower point, and includes a suitable opening therein adapted to engage a main supporting member in a Venetian blind as will be more clearly set forth subsequently. At the opposite end, the said end is similarly formed, including a downwardly extending skirt section 4 from which depends to a further extent a supporting lug 5. The supporting lug 5 includes the mounting opening 6 therein, said mounting opening 6 being aligned with the corresponding mounting opening in the lug 3 at the opposite end of the body.

Since both sides of the body are similarly formed with the provision for engaging the loops of the tapes in the Venetian blinds, only one will be specifically described, it being understood that the other side of the body is similarly formed and includes corresponding elements.

Referring therefore to Figures 1 to 7 inclusive, it is noted that the tape loop engaging member 7 is in the form of a finger-like member which is integrally connected at 8 to the body 1, the finger 9 thereof being spaced from the body portion, and as shown in Figure 4 bent at 8 upwardly and over into a position, where the same lies substantially parallel with the body 1, and near the edge thereof. It will be noted as shown in Figure 1 that the finger 9 is spaced slightly inwardly from the side or edge of the body, for purposes which will be understood hereinafter.

The latching element or construction, generally designated 10 and clearly shown in the consideration of Figures 1 and 4, includes a portion lanced from the corner of the body and bent upwardly at 11, and thence inwardly as at 12, so as to form a latch member including a stop section formed by the upward bend 11 and the forwardly extending portion 12.

It will be apparent that in view of the relatively thin, narrow and long formation of the finger 9, that the same will be of substantially a resilient nature so as to be moved into the positions shown in dotted lines in Figure 1, whereby the end 13 of the finger 9 may be moved from a position above the inwardly extending portion 12 into a position below the same and into engagement with the stop section including the portions 11 and 12 of the latch member 10. Thus, the tape loop engaging means provides ready mounting for a tape such as is shown in Figure 7 designated 14, which tape 14 includes a loop 15 formed by bending the extremity 16 of the side of the tape back upon itself and fastening the same by the fastening 17 or any equivalent thereof. There is thus provided suitable quickly operable means for attaching and detaching the loops of Venetian blind tapes to the respective loop engaging means, it being understood that the means specifically described hereinbefore are provided at opposite edges or sides of the body of the tape support.

As will be understood also, the body 1 of the tape support herein described, may be provided with suitable pulley supporting ears designated 18, which are struck out of the body 1 of the support, into positions at right angles thereto, and extending in a direction opposite the mounting lugs previously mentioned. The supporting ears 18 may be provided with suitable holes 19 (see Figure 3) which will support the pin or bearing which is provided for a pulley.

Figures 5 and 6, somewhat fragmentary in nature, show the manner of manipulating the respective fingers 9 so as to be moved into locked and unlocked positions for retaining the tapes in position in connection with the support, or disengaging the loops of the tape therefrom.

As shown in Figure 8, the tape supports are intended to be mounted upon a main supporting member 20, which supporting member is connected at 21 to a tilt unit designated 22, and at its opposite end is carried in a bracket 23 of a cord lock unit 24. As is well known, suitable manipulation of the tilt unit 22 by means of the cords 25 and 26 thereof, will cause a tilting or rotative action of the main support 20, the tape supports of this invention being shown at 27 and 28; the same usually being provided in pairs although in large or wide blinds where more tapes are required to be furnished, additional tape supports are likewise intended to be provided.

It will be apparent that suitable manipulation of the cords 25 and 26 as previously mentioned, with the tapes 14, suitably connected to the tape supports 27 and 28, will cause the slats 29 to be rotated or tilted as required. Suitable manipulation of the lift cord 30 usually provided, and trained over pulleys carried in the tape supports 27 and 28, will raise and lower the blinds as is usually required.

In view of the foregoing, it will be apparent that there has been here described and illustrated, a novel form of tape support, formed of an integral construction, including novel tape loop engaging means, which are releasable as occasion demands for mounting or dismounting tapes in connection therewith, which supporting means prevent the tapes from accidentally becoming disengaged from the same, and yet are readily disengaged when the occasion demands.

I claim:

1. A tape support of the class described, comprising a body, means for mounting said body for tilting movement, a resilient tape loop engaging member integrally connected at one end to the body and extending therealong, and a latch element adjacent the other end of said member for releasably engaging the same, the free end of the engaging member being positionable above and below said latch element.

2. A tape support as claimed in claim 1, wherein the loop engaging member comprises a relatively long narrow section, integrally formed with the body and extend substantially parallel thereto from one end toward the opposite end and the latch element is integral with the body and formed at the said opposite end.

3. A new article of manufacture, comprising a substantially flat rectangular body, integral mounting lugs extending downwardly therefrom at opposite ends and comprising flat bent extensions of the body, a pair of finger-like tape loop engaging members each integrally formed at one end with the body extending substantially parallel thereto from a first end near the edges of the body, said members being bent up over the face of said body, and an integral latch element for each member struck upwardly near the other end of said body, and having provisions for releasably engaging corresponding ends of said members.

4. As a new article of manufacture, a one-piece tape supporting member, comprising a substantially rectangular flat body, a pair of tape loop engaging fingers each integral at one end with the body, and having free opposite ends, extending from one end of the body bent upwardly and over said body near the sides into substantial parallelism with each other and with the body, and latch elements for each finger integral with and forming parts bent from the body and extending upwardly from corresponding corners thereof, and having stop sections for receiving the free ends of the fingers aforesaid.

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