Sept. 15, 1936. F. J. BURNS 2,054,241

VENETIAN BLIND

Filed Sept. 23, 1935

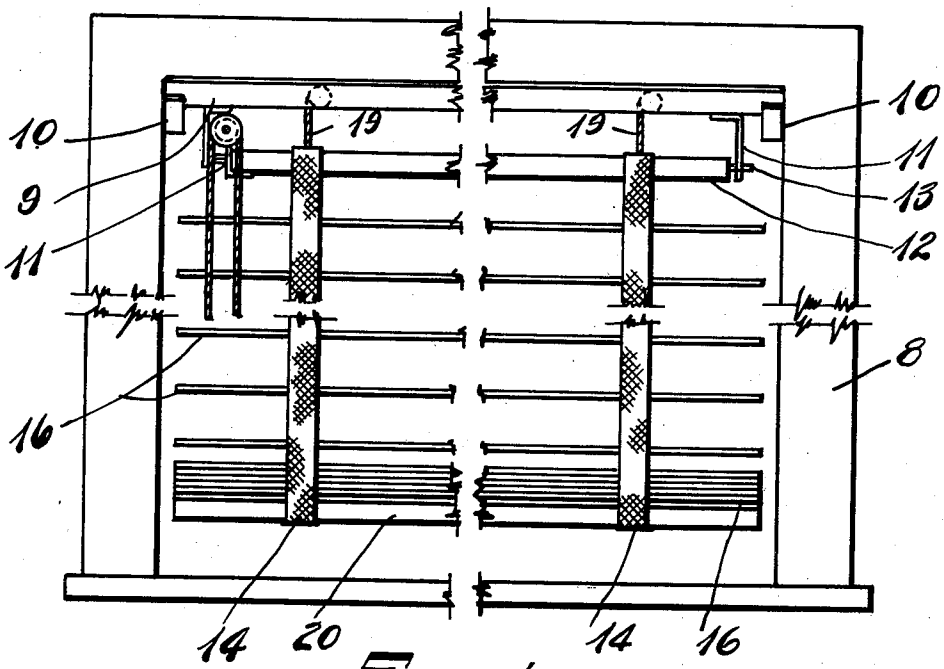
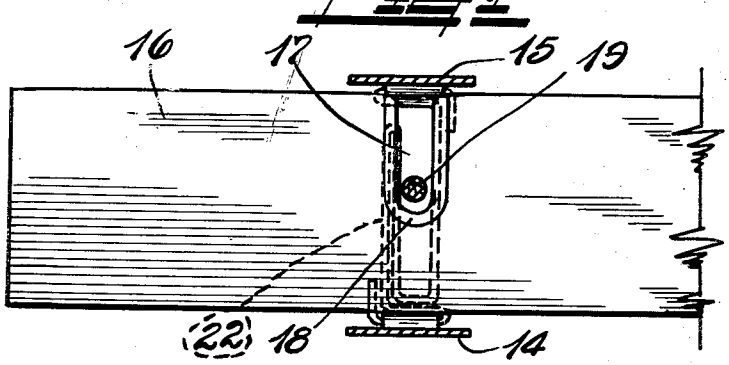
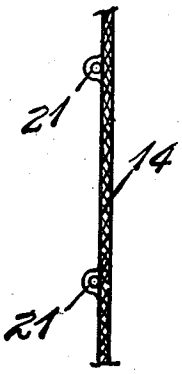


Fig. 1





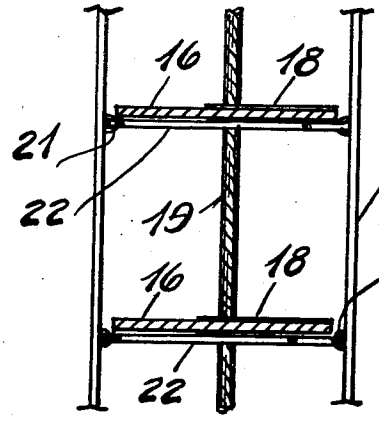


Fig. 4

21

Fig. 3



Fig. 5

Fig. 2

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VENETIAN BLIND

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8 Claims. (Cl. 156—17)

One of the prime objects of the invention is to design a slat supporting clip which is readily attachable or detachable from the ladder tape to permit the ready assembly or disassembly of the blind slats, or for the removal and subsequent replacement of one or more of the slats for cleaning, repair, painting, or for any other reason.

Another object is to design an inexpensive and substantial clip which cannot accidentally become unfastened due to blind operation or manipulation, but which can be easily detached when desired.

A further object is to provide a clip so designed that it readily accommodates the lifting cords, and from which said cords can be quickly and easily disengaged when desired or necessary.

The above and other objects will appear as the specification progresses, reference being had to the accompanying drawing in which I have shown the preferred embodiment of my invention, and in which like references indicate like parts throughout the several views thereof.

In the drawing—

Fig. 1 is a front elevation of a Venetian blind showing the arrangement of slats and ladder tape.

Fig. 2 is a top plan view showing my detachable clip.

Fig. 3 is a fragmentary plan view of a slat showing the supporting clip in position.

Fig. 4 is a fragmentary, transverse, sectional view through the slats.

Fig. 5 is a detail edge view of one of the looped ladder tapes.

The ladder tape on conventional Venetian blinds is made up of a pair of spaced apart strips connected together at vertically spaced intervals by means of transversely disposed cloth or tape strips, sewed or otherwise secured to the vertical strips on which the blind slats rest. Elongated slots are provided in the slats, and accommodate the lifting cords which pass therethrough and lead to the head rail as usual. Such construction required that the slats be inserted endwise to assemble, and that the lifting cords be then threaded through the slotted openings in the slats, and when it was desired to remove one or more of these slats for any reason whatsoever, it was necessary to remove the lifting cords from the slats down to the slat which required removal to permit its removal endwise from the ladder tape, and this is eliminated in my improved construction, in which each clip is detachably connected to the vertical tapes, said clips having openings to permit disengagement of the lifting cords without disconnecting or otherwise interfering with the remaining slats.

Referring now to the drawing in which I have shown the preferred embodiment of my invention, the numeral 8 indicates a frame defining an opening in which a Venetian blind is hung, said blind comprising a head rail 9 mounted on brackets 10; hangers 11 depend from the head rail and revolubly support a tilt rail 12 which is provided with pintles 13 which are in turn mounted in the hangers 11 as usual. Vertical tapes 14 and 15 are secured to the tilt rail and are adapted to support slats 16, each slat being provided with opposed slotted channels 17, and a metal ferrule 18 forms a binding for the edge of said channel, the lifting cords 19 leading through said openings and are connected to the bottom rail 20 as usual.

Each vertical tape 14 is formed as clearly shown in Figs. 3, 4, and 5 of the drawing, and loops 21 are woven in each tape in spaced apart relation and are adapted to be detachably engaged by the clips 22 in a manner to be presently described.

The clip proper is preferably, but not necessarily, formed of wire, and it comprises the end sections 23 shaped to form a loop 24, the outer strand of which engages the loops on the tape, the strands being parallel, with the free end 25 bent inwardly and parallel to the main body strands 26, this main body strand extending longitudinally, thence being reversely bent to provide a passage 27, which accommodates the lifting cord 19, thence the strand is bent to parallel the end section or loop 24, and thence longitudinally and being bent to form the loop 24 on the opposite end of the clip, the free end also being bent at right angles to the end and parallel to the main strands so that a substantial supporting clip is provided.

To assemble, the free ends 25 of the clip are first threaded through the tape loops 21, and the clip is then turned so that the outer strand of each end section rests in the tape loop, thus securing the vertical tapes in spaced relation; the lifting cords 19 are then passed through the openings 27 so that they freely hang between the main strands of the clips; the slats 16 are then placed on the clips, the cord being accommodated by the slotted channels 27, and the assembly is completed. Removal of any desired slat merely means the disengagement of the lifting cords from the passages 27, and the slat is then free for removal.

This clip and arrangement in no manner inter-

fere with the usual blind operation or the tight closing thereof; it is practical and convenient, and will not accidentally become unfastened.

This detachable clip arrangement is also very advantageous when cleaning the blind slats, and in the conventional slat construction where the lifting cords pass through a slotted opening in the slats, the slats are, of course, not removable until the lifting cords are removed; however, the detachable clip permits the vertical tapes to be completely disengaged so that cleaning or repair is easily and quickly accomplished.

From the foregoing description it will be obvious that I have perfected a simple, inexpensive, and practical detachable clip for supporting the slats of Venetian blinds.

What I claim is:

1. A clip of the character described and comprising a main body provided with an elongated, centrally disposed passage therein, and end sections formed integral with the main body and having a transversely disposed loop engaging section, the end of which is free and bent to lie in a plane substantially parallel to the main body.

2. A slat clip formed of a single strand of wire bent to form spaced apart, horizontally disposed side members and forming an elongated slot therebetween, a passage opening into said slot, said side members terminating in transversely disposed looped end sections, the free ends of which are bent horizontally and parallel to the horizontally disposed side members.

3. A slat clip of the character described and comprising spaced apart horizontally disposed side sections defining an elongated slot, a passage opening into said slot, transversely disposed end sections formed integral with the side sections, the free end of the end sections being bent at right angles and parallel to said side sections.

4. The combination with the vertical looped tapes of a Venetian blind, of a slat clip for supporting the blind slats and formed with a horizontally disposed section having an elongated, centrally disposed opening therein, a passage leading into said opening, and transversely disposed, looped end sections formed integral with the horizontally disposed section, said loops engaging and being detachably mounted in the loops in the looped tape.

5. The combination with the vertical looped tapes of a Venetian blind, of a slat clip detachably connected to said tapes and adapted to support a blind slat, said clip being formed with spaced apart, horizontally disposed side sections defining an elongated channel, a passage opening into said channel for accommodating the blind lifting cord, transversely disposed end sections on said clip and adapted to be inserted in the looped tapes, the ends of said end sections being shaped to prevent accidental disengagement from the tapes.

6. The combination with the vertical looped tapes of a Venetian blind, of a one-piece slat clip adapted to be detachably secured to said tapes for supporting the blind slats, said clip being formed with a horizontally disposed center section terminating in transversely disposed end sections adapted to be inserted in the loops in the tape, said end sections each having a free end which is disposed substantially parallel to the horizontally disposed center sections.

7. The combination with the looped tapes of Venetian blinds, of a slat clip formed of a single piece of wire shaped to form spaced apart, horizontally disposed side sections, one side section being shorter than the other leaving an opening for a blind lifting cord, transversely disposed end sections on the end of each side member and adapted to be threaded into the loops in the tapes, said end sections having free ends disposed parallel to the side sections.

8. A clip of the character described and comprising a main body provided with an elongated, centrally disposed passage therein, and end sections formed integral with the main body and having opposed transversely disposed, open loop-engaging sections.

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