

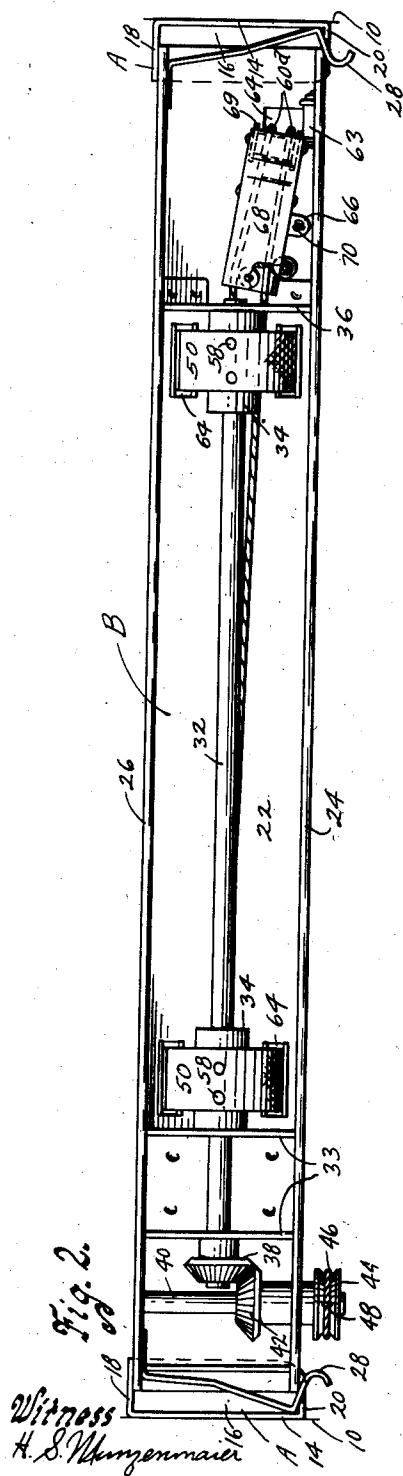
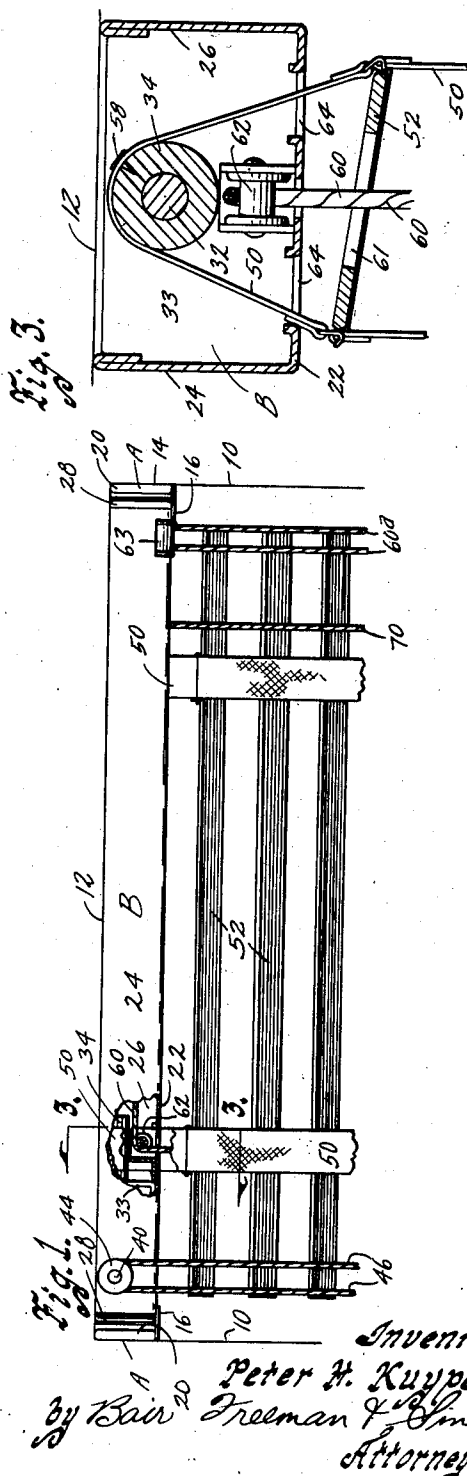
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VENETIAN BLIND

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2,175,532

VENETIAN BLIND

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706,632. Divided and this application May 7,
1935, Serial No. 20,147

2 Claims. (Cl. 156—17)

One object of my invention is to provide a Venetian blind structure having the operating parts incorporating the structure being simple, durable and comparatively inexpensive from a manufacturing standpoint, the present applica-
5 tion being a division of my co-pending applica-
tion Serial No. 706,632, filed January 15, 1934, Patent Number 2,058,159, October 20, 1936.

Another object is to provide a Venetian blind structure comprising a channel shaped, upwardly opening casing with the operating parts for the blind mounted and concealed therein, the structure being arranged for readily mounting and dismounting relative to a window frame.

15 Another object is to provide means for supporting the casing which in turn supports the Venetian blind, such means consisting of brackets into which the ends of the casing may be inserted, latch elements being provided to normally
20 retain the ends within the brackets.

With these and other objects in view my invention consists in the construction, arrangement and combination of the various parts of my device, whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claims and illustrated in the accompanying drawing, in which:

Figure 1 is a front elevation of a Venetian blind structure embodying my invention, parts thereof being broken away.

30 Figure 2 is an enlarged plan view of the same; and

Figure 3 is an enlarged sectional view on the line 3—3 of Figure 1.

35 On the accompanying drawing, I have used the reference numeral 10 to indicate the side jamb of a window frame and 12 the head jamb thereof. I provide brackets A and a casing B. The casing is removably associated with the brackets and the brackets are supported by screws or other
40 suitable means on the window frame.

The brackets A each comprise side flanges 14, bottom supporting flanges 16, outer limiting flanges 18 and inner locking flanges 20.

45 The casing B comprises a bottom wall 22, an inner wall 24 and an outer wall 26. The casing B is provided with spring latches 28 adapted to snap behind the locking flanges 20 when the casing B is inserted in supported position on the flanges 16 of the brackets A. The latches 28
50 may be drawn toward each other when it is desired to remove the casing B from its supported position.

55 Within the casing B I provide an actuating

shaft 32 journaled in suitable brackets or bearings 33 and 36. Drums 34 are secured to the shaft 32 and a bevel gear 38 is also secured to the shaft at one end thereof. A transverse shaft 40 is journaled at one end of the casing B and has a bevel gear 42 secured thereto within the casing. A pulley 44 is mounted on the shaft 40 and has a length of tilting rope or cord 46 extending thereover and depending therefrom. The cord may be secured to the pulley as at 48. It is thus obvious that the pulley 44 can be oscillated in either direction and will consequently oscillate the shaft 32. A Venetian blind having tapes 50 and slats 52 is supported by reason of the tapes extending over the drums 34, as best shown in Figure 3, securing means such as tacks 58 or the like preventing slippage of the tapes 50 with relation to the drums 34.

Slots 64 are provided in the bottom wall 22 of the casing B for the tapes 50 to extend through from the drums to the blind slats 52. The usual raising ropes 60 are provided, extending through slots 61 of the blind slats 52 and secured to the lower slats. These extend over pulleys 62, one of which is mounted between each tape ladder within the casing B below each drum 34. They then extend through a bracket 68 and finally over a pulley 69 therein to depend from the casing B as indicated at 60a.

An opening 61 is provided in the wall 22 for the ropes to extend down through and a pulley 63 may be mounted at the front of the casing to prevent binding of the ropes when pulled by an operator during the raising of the blind.

A locking device 66 having a control cord 70 is provided, this device being fully described in my Patent No. 1,957,272, of May 1, 1934.

I have provided a simple arrangement for tilting the blind slats by merely rotating the actuating shaft 32. The tapes 50 are thereby wound up on one side of the drums 34 and unwound from the other side during such operation. The casing B being channel shaped and opening upwardly provides an apparently closed casing when fitted against the head jamb 12. When the casing is removed, however, all operating parts are accessible for repair or replacement through the open top thereof.

The drums 34 being rotatably mounted will cause the slats of the blind to tilt as desired when the drums are rotated in one direction, or the other.

A convenient arrangement is provided for rotating the shaft 32 by means of the transverse

shaft 40 and the tilting cord 46 depending therefrom. The latches 28 are readily operable to normally retain the casing in supported position or permit it to be removed from the brackets A when desired for any reason. This and many other advantages arise from constructing a Venetian blind as I have disclosed.

Some changes may be made in the construction and arrangement of the parts of my device without departing from the real spirit and purpose of my invention and it is my intention to cover by my claims any modified forms of structure or use of mechanical equivalents which may be reasonably included within their scope.

I claim as my invention:

1. A head bar structure for Venetian blind operating mechanism comprising an elongated three sided casing forming a bottom and a pair of upwardly extending side walls of a height less than the width of the bottom, the ends of said casing

being open and adapted to be closed by supporting brackets when the casing is mounted thereon, supporting brackets for said ends of said casing having rearwardly facing shoulders and spring latches carried by said ends of said casing and adapted for engagement with said shoulders when said casing is in supported position on said brackets.

2. A head bar structure for Venetian blind raising and tilting mechanism comprising a sheet of metal formed to provide a bottom wall and a pair of upwardly extending spaced side walls for forming a housing having its top side and its ends open, brackets for supporting said housing included as part of said head structure for closing the open ends of said housing, latches carried by said head bar structure and coactable with said brackets for normally retaining the head bar structure in position.

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