May 23, 1933. G. HOPP 1,910,335

BLIND

Filed Jan. 9, 1932 2 Sheets-Sheet 1

Fig. 1.

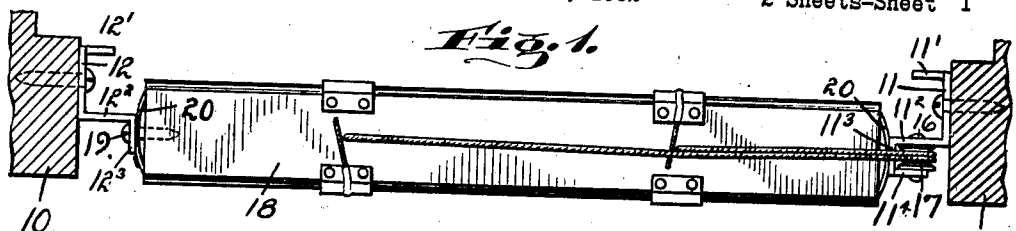
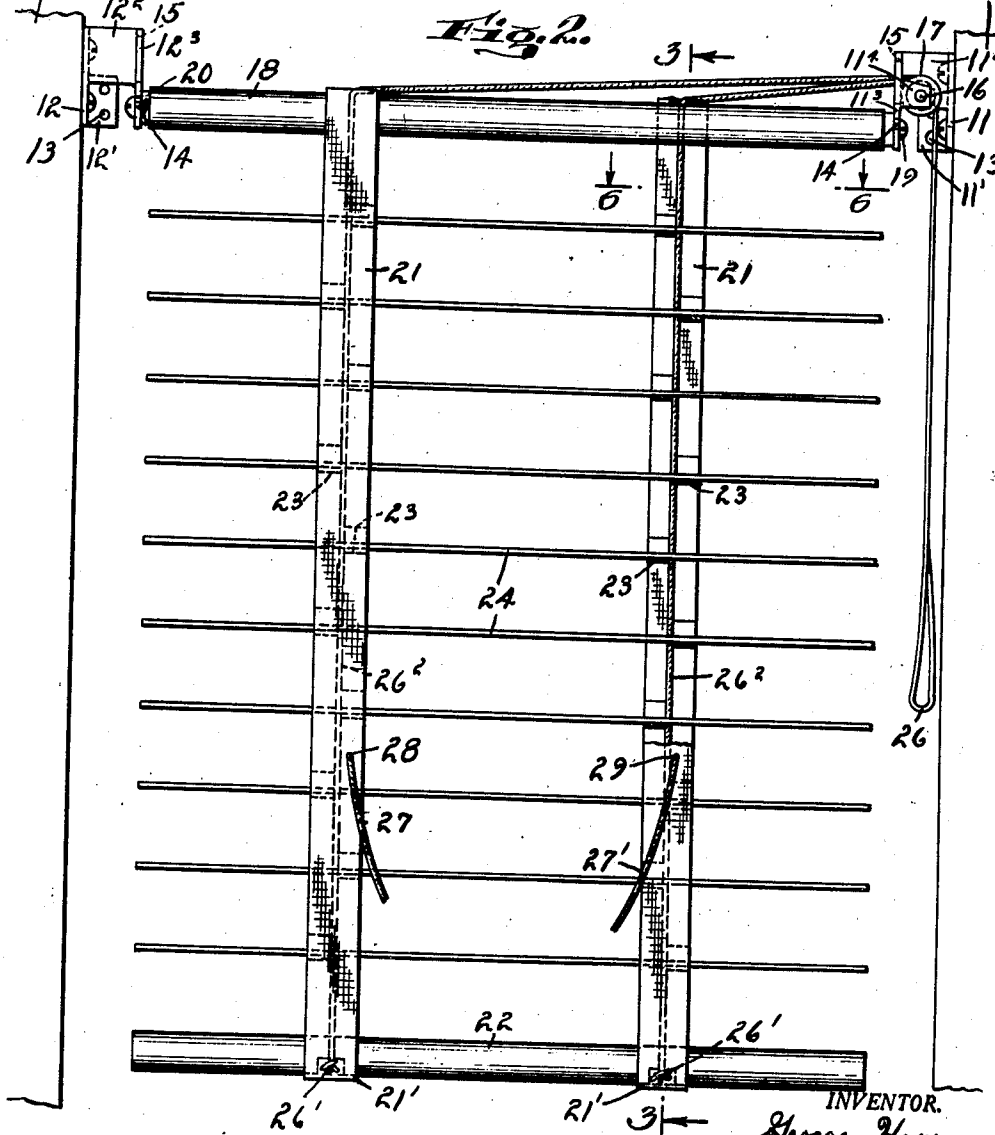


Fig. 2.



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Fig. 3.

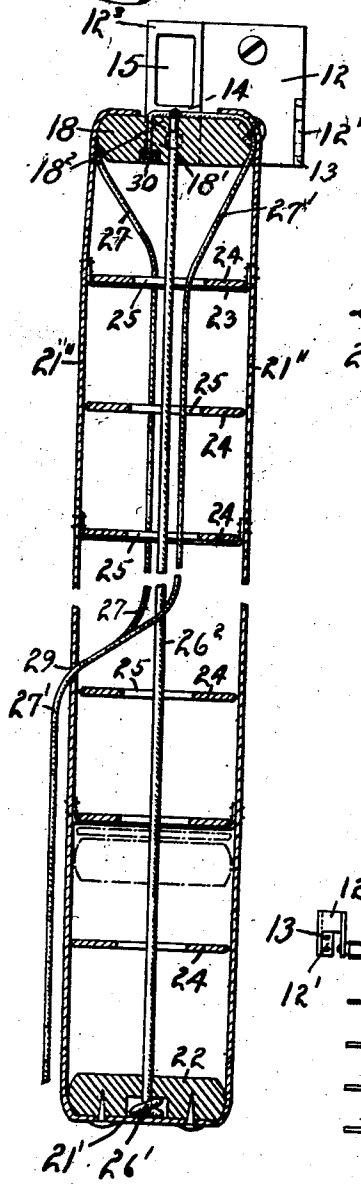


Fig. 4.

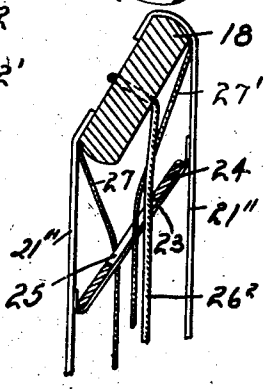
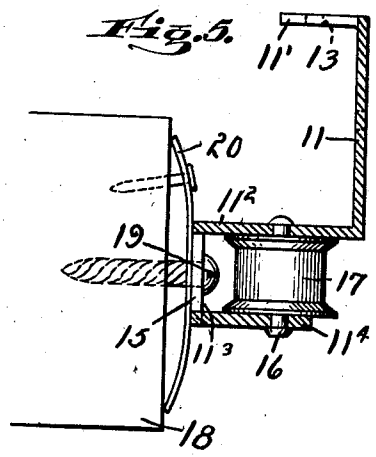


Fig. 5.



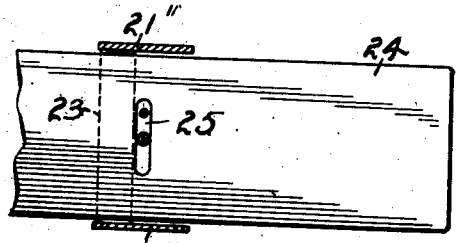


Fig. 6.

Fig. 7.

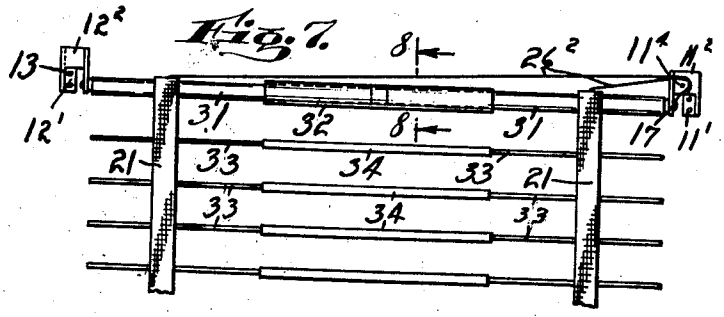


Fig. 8.



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Patented May 23, 1933 1,910,335

UNITED STATES PATENT OFFICE

GEORGE HOPP, OF NEW YORK, N. Y.

BLIND

Application filed January 9, 1932. Serial No. 585,643.

The present invention relates to blinds of the so called "Venetian" type.

It is an object of the present invention to provide means whereby, only one or a few stock sizes of such blinds need be carried by the vendor thereof and which stock sizes may be readily adjusted for application to different sized windows or portals with a minimum amount of alteration.

It is a further object of the present invention to provide novel suspending means for such blinds which can be quickly applied in most convenient manner to the window frame or other portal.

It is still another object to provide blinds or shades of the character described which may be produced at comparatively low cost.

With the above and other objects not specifically mentioned in view, my invention comprises the novel construction, combination and arrangement of elements to be hereinafter more fully described, shown and defined in the appended claims.

In the accompanying drawings which form part of this specification and in which similar reference characters denote corresponding parts:—

Fig. 1 is a top plan view of my device;

Fig. 2 is an elevational view thereof;

Fig. 3 is a section seen in the direction of the arrows along line 3—3 of Fig. 2;

Fig. 4 is a similar partial section showing a different position of the shade slats;

Fig. 5 is a view partially in section of the bracket member shown at the right of Fig. 1;

Fig. 6 is a section seen in the direction of the arrows along line 6—6 of Fig. 2;

Fig. 7 is a partial elevational view of a modified form of my invention; and

Fig. 8 is a section seen in the direction of the arrow along line 8—8 of Fig. 7.

Referring to the drawings, 10 denotes the side pieces of a window frame, door jamb or other portal frame.

Adapted to be mounted at opposite points to the said side pieces are bracket members each of which are constructed of metal or other suitable material and respectively comprise the plates 11 and 12 which are here shown as rectangular in shape. Extending laterally from one edge of each of said plates are wings 11^1 and 12^1 and respectively which may be provided with holes 13. Extending laterally from said plates 11 and 12 along the opposite edges as said first named edges are wings 11^2 and 12^2 respectively. The latter have extending therefrom parallelly respectively to plates 11 and 12 but in opposite direction thereto the wings 11^3 and 12^3. Said last named wings are provided respectively with slots 14 each in the same relative position on the respective wings 11^3 and 12^3 which are alike. The latter named wings are each also provided with a cut out or slot 15.

Rotatably borne between wing 11^2 and an auxiliary wing 11^4, which latter is attached to or integrally formed with wing 11^3, on a spindle 16, is a pulley 17 located opposite slot 15 of said member.

The blind which is adapted to be supported from said brackets may comprise a block 18 of wood, metal or other suitable material. At opposite ends headed pins 19 are provided which are adapted to be inserted into the respective slots 14 of wing members 11^3 and 12^3. The slots 14 slant upwardly from their inner ends so that the pins 19 will not fall out thereof. Also mounted at each end of said block are leaf springs 20 which press against the respective members 11^3 and 12^3 when block 18 is mounted therebetween and while permitting rotation of said block provide sufficient friction to retain the latter in any position into which it is rotated.

Suitably suspended intermediate the ends of said block 18 are loops 21 formed of bands of flexible material such as cloth, webbing or the like.

A second block member 22 is provided to which the bottoms 21^1 of the respective loops 21 are attached as by nailing or the like.

Extending between the opposite legs 21'' of the respective loops 21 are a plurality of cross straps 23 which are regularly spaced from each other in vertical direction.

Adapted to be supported between straps 23 which are at corresponding levels on each loop 21 are the shade members comprising thin slats or boards 24 each of which is shown as rectangular in shape in the present embodi-

ment and which are each provided with lateral slots 25 so spaced from each other as to be concealed by the loops 21.

Manipulating means in the form of a loop 26 of flexible wire or cord whose ends 26^1 are knotted under block member 22 covered by the respective loop bottoms 21^1 is provided. The legs 26^2 of said loop are respectively led through the slots 25 of each slat 24 and through suitable holes 18^1 (only one of which is shown) in the member 18 whence they are led over the pulley wheel 17 after passing through slot 15 and hang freely along one side of the window frame, door jamb or other portal. When loop 26 is pulled downwardly it raises the blind by pulling the block member 22 and slats 24 into contact with one another until they are closely packed together above the window or other portal frame. Releasing loop 26 permits the blind to be lowered.

To conveniently rotate the member 18 and thereby vary the angular position of the slats 24, the following expedient is employed. A flexible member 27 of similar material to loop 26 passes through a suitable opening 28 in the front leg of a loop 21. It then passes through the slots 25 in slats 24 above opening 28 and around the rear edge of block 18 and is fixed to the latter by passing it through a hole 18^2 and knotting it at 30. A second similar member 27^1 passes through the other slots 25 in slats 24 above opening 29 of the other loop 21 and around the front edge of block 18 and is also fixed to the latter in similar manner. Thus pulling member 27 rotates block 18 in one direction and vice versa when member 27^1 is pulled.

Since loops 21 are attached to member 18, the slats 24 and member 22 are correspondingly rotated.

It is only necessary with the device and brackets above described for a vendor to carry a few standard sizes for, if variation from standard is met with in any particular case, he need only remove the pins 19 and springs 20 from the ends of member 18, collapse the shade and saw off the required amount from each end to obtain the necessary fit.

Pins 19 and springs 20 are then remounted to the ends of the member 18 and it is used as before.

A variation of the device above described to eliminate the necessity of sawing off the ends may be constructed as follows. In place of member 18, I provide two members 31 which extend from opposite ends of a sleeve 32 and which may be pushed together or drawn apart in said sleeve. The slats likewise are divided into two members 33 which extend from opposite ends of a sleeve 34. The member 22 is replaced by a member (not shown) similarly constructed as block 31 to be extendible. Thus the blocks and slats may be extended or pushed together to meet the requirements of the particular window or portal frame. The other elements and brackets are the same as before.

In each case the width of the slats 24 should be so admeasured that at the extreme limit of rotation in either direction of member 18 the slats overlap each other and completely prevent the passage of light in well known manner.

It is to be noted that the brackets may be attached to the portal frame either as shown by screws or bolts passing through wings 11 and 12 thereof or by bolts (not shown) passing through holes 13 in wings 11^1 and 12^1.

My invention may be modified in many ways without departing from the spirit thereof and I do not wish to be limited to the details shown and described.

What I claim is:—

1. The combination with a Venetian blind comprising a block member, parallelly mounted slats suspended therefrom and cord means for collapsing said blind, of two bracket members adapted to be mounted on a frame at opposite sides thereof, each comprising a plate member having a wing extending laterally from one edge thereof, a second wing extending laterally from said plate member along the opposite edge of said member from said first named edge, and a third wing extending laterally from said second named wing parallel to its plate member, said third named wing being provided with a slot which serves to engage a member mounted on an end of said block member, said third named wing having an extra slot through which said cord means may pass, a fourth wing extending laterally from the third named wing on one of said brackets and a pulley member rotatably borne between said second and fourth named wings, said cord means being adapted to pass through the second named slot in said same bracket member and over said pulley member.

2. The combination with a Venetian blind comprising a block member, parallelly mounted slats suspended on flexible loops from said block member, cord means for collapsing said blind and bracket means for rotatably supporting said block member, of two cord members respectively passing through the front legs of two of said loops and respectively around the front and rear edges of said block member and fastened by knotting under the latter whereby tension on one of said cord members will rotate said block member in one direction and vice versa when said other cord member is tensioned.

3. In combination, a collapsible blind comprising a block, two loops mounted therefrom, parallelly mounted slats supported between the edges of said loops at regular intervals, bracket means for rotatably supporting said block, said last named means being

adapted to be mounted on a frame, cord means for collapsing said blind passing through certain elements of the latter, a pulley on said bracket means over which said cord means is passed and means for rotating the respective elements of said blind about their respective own longitudinal axes comprising cord members whose upper ends respectively pass around opposite sides of said block member and are fastened thereto and whose lower ends project through the front legs of the respective loop members whereby tension exerted on one of said cord members will rotate said block in one direction and tension on the other of said cord members will rotate said block in opposite direction.

4. The combination with a Venetian blind having cord means for collapsing said blind, of bracket members adapted to be mounted on a frame at opposite sides thereof, each comprising a plate member having a wing, extending laterally from one edge thereof, a second wing extending laterally from said plate member along the opposite edge from said first named edge and a third wing extending laterally from said second named wing parallel to its plate member, said third named wing being provided with a slot which serves to engage a member on the said blind, an extra slot on said third named wing through which said cord means may pass, and means on the third named wing of one of said bracket members for supporting a rotatable pulley over which said cord means may pass.

5. A bracket member for a Venetian blind having cord means for collapsing said blind comprising, a plate member having a wing extending laterally from one edge thereof, a second wing extending laterally from the plate member opposite said first named wing, a third wing extending laterally from said second wing, and having a slot for engagement of a member on said blind, and an auxiliary wing extending laterally from said third wing, and a pulley member rotatably supported between said second wing and said auxiliary wing.

6. A bracket member for a Venetian blind having cord means for collapsing said blind comprising, a plate member having a wing extending laterally from one edge thereof, a second wing extending laterally from said plate member opposite the first named wing, a third wing extending laterally from said second wing having a slot therein for engagement of a member on said blind, a pulley and means for rotatably supporting the latter from said third named wing over which said cord means may pass.

7. The combination with a Venetian blind having cord means for collapsing said blind, bracket members adapted to be mounted on a frame at opposite sides thereof, each comprising a plate member having a wing extending laterally from one edge thereof, a second wing extending laterally from said plate member along the opposite edge of said member from said first named edge and a third wing extending laterally from said second named wing parallel to its plate member, said third named wing being provided with a slot which serves to engage a member on the said blind, and an extra slot on said third named wing through which said cord means may pass.

In testimony whereof, I affix my signature.

GEORGE HOPP.