My invention relates to head bar brackets for Venetian blinds and has particular reference to brackets comprising means for adjusting and locking a head bar in a desired position with reference to a frame within which it is mounted.

Venetian blinds, as now in common use, comprise a plurality of slats supported from a main tilting bar in a manner to be adjusted to open or closed positions by rotary movement of the bar, which in turn is mounted within a window frame preferably upon the lower side of a head bar that is secured to the frame. According to the prior art devices, the head bars have been supported by means of brackets that did not provide means for adjusting the head bar, thereby necessitating an exact location of the brackets to properly position the head bar in its desired location. It has been the practice also heretofore to secure the head bars to the brackets by means that did not permit a ready attachment or removal of the bars from the supports.

According to my invention, I propose to support the head bar at each end thereof upon a two part adjustable bracket and provide a quickly detachable connection between the bar and one part of the bracket with the object of reducing the time and expense of installation to a minimum.

My invention has for another object to provide a unitary bracket and head bar lock composed of readily assembled elements that may be cheaply made by means of metal stampings and in a manner to provide a maximum of strength.

Another object is to provide in such brackets in combination, integral means adapted to afford a support for certain screen parts to be described.

Other objects will readily appear from a reading of the detailed specifications which follow and from the accompanying drawings, wherein—

Figure 1 is a front view showing portions of a Venetian blind mounted by means of a bracket constructed according to my invention;

Fig. 2 shows in side elevation the various parts in Fig. 1;

Fig. 3 is an isometric view of the unitary adjustable bracket and bar lock;

Fig. 4 is a view showing the parts in Fig. 3 prior to their assembly;

Fig. 5 is a detail view of the head bar and lock showing the latter in its two extreme positions;

Fig. 6 shows a modified bracket having means to support an associated screen frame;

Fig. 7 shows another modified bracket having means to support the casing of a roll screen; and

Fig. 8 is a detail view of a portion of the bracket shown in Fig. 7.

Referring to the drawings in detail, the head bar 1 is detachably supported within a wall frame opening by means of adjustable brackets 2, hereinafter described in detail. A Venetian blind comprising a tilting bar 3 and the usual slats 4 is suspended from the head bar by means of brackets 5, and operating cables 6 which pass over a pulley 7 are provided for adjusting the tilting bar 3 and slats to any desired position. The adjustable bracket 2 which constitutes the subject of the present invention is shown in detail in Figure 3 and comprises two main members 8 and 9 which are mounted in sliding contact to provide relative adjustment therebetween. Each member 8 and 9 is formed preferably by stamping the same from metal stock and bending portions thereof. The member 8 is formed to provide a vertically extending wall portion 9' and a pair of laterally extending flanges 10 and 11. A plurality of openings 12 are provided in the flange 10 and wall 9' for the purpose of receiving screws or the like adapted to fasten the member 8 to the window frame. A supporting flange 13 extends laterally from the lower edge of the wall 9' and is bent downwardly to provide a vertical portion 14 which is provided with a longitudinally extending slot 15 hereinafter referred to in detail. The member 9 comprises a vertically extending wall portion 16 which is provided with a pair of laterally extending stop elements 17 and 18. The lower portion of the member 9 is bent
outwardly to provide a laterally extending bar supporting portion 19 and a downwardly extending flange 20.

A head bar locking member 21 is pivotally mounted upon the flange 20 by means of a pin or rivet 22. A laterally extending operating portion 23 is formed on the free end of the locking member 21. As clearly shown in Figure 3, the locking member is movable from an unlocked position, as shown in dotted lines, to a locking position, as shown in full lines, and is releasably retained in its locking position by a lug 24 which is formed upon the lower edge of the flange 20. The locking member is provided adjacent its pivotal point with an arcuate locking extension 25 more clearly shown in Fig. 5 as arranged to engage a recess 26 formed in the lower face of the head bar 1 when the member 21 is in its horizontal locking position. It will be noted in Fig. 1 that one end of the head bar is adapted to rest upon the portion 19 in engagement with the stops 17 and 18.

The members 8 and 9 are assembled in slidable engagement, with the portion 19 overlying and in contact with the portion 13 and with the stop 17 positioned below and in contact with the lateral flange 11. A bolt 27 is arranged to pass through an opening 28 formed in the flange 20 and through the slot 15 and threadably engages a nut 29 which is positioned in rear of the flange 14. It will be noted that one side of the nut 29 is arranged to engage the lower face of the flange 13, thereby preventing the nut from rotating during rotation of the bolt 27. The member 9 may be locked in any position to which it may be adjusted upon the member 8 by the clamping action of the bolt 27 and nut 29.

Figure 5 shows a modification wherein a bracket member 8 is provided which is similar to the bracket member shown in Figure 2, with the exception that the laterally extending flange member 10 is modified by forming integrally therewith an angular extension 30 which provides a pair of faces 31 and 32 arranged at right angles to each other. The purpose of the extension 30 is to serve as a positioning and supporting means for a screen 33. It will be noted that the side frame of the screen may be engaged under the extension 30 before or after the bracket member 8 has been secured to the face of the window frame. Such construction provides a simple and economical bracket which serves the double function of supporting a head bar and an adjacent screen.

Figures 6 and 7 show a further modification wherein the bracket member 8 is modified to provide a means for attachment thereto of a roll screen casing 34. The vertical wall portion 9' is provided with laterally extending flanges 35 and 36 and a pair of struck out lugs 37 which serve to receive and position one end of the casing 34. The wall portion 9' is further provided with a plurality of openings 38, and a plurality of lugs are provided on the end of the casing 34, which lugs are passed through the openings 38 and are bent over in the usual manner to attach the casing 34 to the bracket 8. A roll screen 39 is mounted within the casing 34 and is pivotally mounted at an end thereof in a bearing 40 fastened on the vertical wall 9'. The roll screen 39 is engaged along one edge thereof within a vertical guide member 41. An extension 42 formed on the bracket member 8 cooperates with the guide member in a manner to support the latter. The construction described provides an adjustable bracket which serves not only to support and detachably lock the head bar in position, but also to support a roll screen, thereby affording a simple, effective and economical support for the elements described.

The operation of the device will be obvious from the above description. The unitary bracket may be installed in an approximate position on the supporting frame by means of the screws 12. The Venetian blind as a unit may be applied to the frame by merely inserting the ends of the head bar from the front, between the lug 18 and the flange 19 and sliding the bar to the rear to contact the lug 17. Thereafter, the lock 21 is rotated to engage its portion 25 within the bar recess 26. It will be noted that the various operations of engaging the head bar, locking and unlocking the same, and adjustment of the bracket and suspended blind may be effected in a minimum of time and in a simple and practical manner. In the event that the installation calls for a frame screen or a roll screen, brackets will be selected which have been modified to afford the added screen support, in which case a further economy of time and expense may be effected in connection with the entire assembly and installation.

While I have shown and described preferred forms of my invention for the purpose of illustration, I do not desire to be limited to the forms shown, but reserve for myself such modifications as may be embraced within the scope of the claims which follow.

What I claim is:

1. In a Venetian blind in combination, a head bar for supporting said blind, a bracket, means on said bracket for supporting one end of said bar, a locking member associated with said bracket, a denton on said bar,所述 locking member being movable to engage said denton for detachably locking said bar to said bracket.

2. In a Venetian blind in combination, a head bar for supporting said blind, a bracket for supporting one end of said bar, a locking member movably mounted on said bracket, a denton on one face of said bar, said locking member being movable to engage said denton...
for detachably locking said bar to said bracket.

3. In a Venetian blind in combination, a head bar for supporting said blind, a bracket for supporting one end of said bar, a locking member movably mounted on said bracket, said bar being provided with a recess on one face thereof, said locking member being movable to detachably engage within said recess.

4. In a Venetian blind in combination, a head bar for supporting said blind, a bracket for supporting one end of said bar, a locking member movably mounted on said bracket, a detent on said bar, said locking member being movable to engage said detent, and detent means on said bracket in position to engage said locking member in its locking position for yieldingly retaining said member in locking position.

5. In a Venetian blind in combination, a head bar for supporting said blind, a bracket for supporting said head bar on a frame, said bracket comprising a portion attachable to said frame and an adjustable portion movably mounted on said other portion, means on said adjustable portion for engaging one end of said bar, and means movably mounted on said adjustable portion for detachably locking said bar to said adjustable portion.

6. In a Venetian blind in combination, a head bar for supporting said blind, a bracket for supporting one end of said bar, said bracket comprising a horizontal portion and web portions extending in opposite directions from opposite sides of said horizontal portion, said adjustable portions arranged with their horizontal portions in slidable contact.

7. In a Venetian blind in combination, a head bar for supporting said blind, a bracket for supporting one end of said bar on a frame, said bracket comprising a portion attachable to said frame and an adjustable portion movably mounted on said other portion, said adjustable portion being formed to provide a horizontal portion and a depending portion, said horizontal portion arranged to support said bar, and locking means on said depending portion for detachably engaging said bar.

8. In a Venetian blind in combination, a head bar, a bracket for supporting one end of said bar, a locking lever pivoted on said bracket, said bar being provided with a detent, one end of said lever being engageable with said detent in the locking position of said lever.

9. In a Venetian blind in combination, a head bar, a bracket for supporting one end of said bar, a locking lever pivoted on said bracket, a unitary bracket for simultaneously supporting a screen and a Venetian blind head bar, one end of said bracket being provided with means for detachably supporting said head bar, and means on said bracket for supporting a portion of said screen.

10. In a bracket support for a Venetian blind head bar, means on one end of said bracket for supporting an end of said bar, means for locking said bar to said bracket, and means on said bracket for engaging a screen to provide a support therefor.

11. In a Venetian blind in combination, a head bar, a bracket for supporting one end of said bar, means on said bracket for detachably engaging said bar, a roll screen casing, and means on said bracket for supporting one end of said casing.

12. In combination, a Venetian blind, a head bar for supporting said blind, a roll screen casing, a bracket for supporting said bar and said casing, said bracket being adjustable to vary the distance between the bar and casing.

In testimony whereof I affix my signature.

LAWRENCE THOMAS WARD.