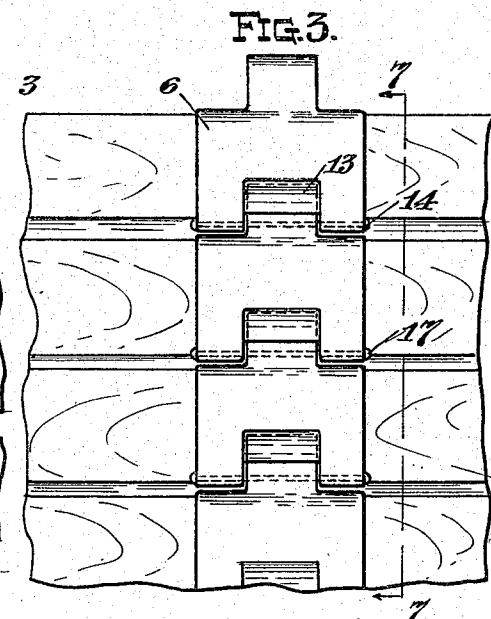
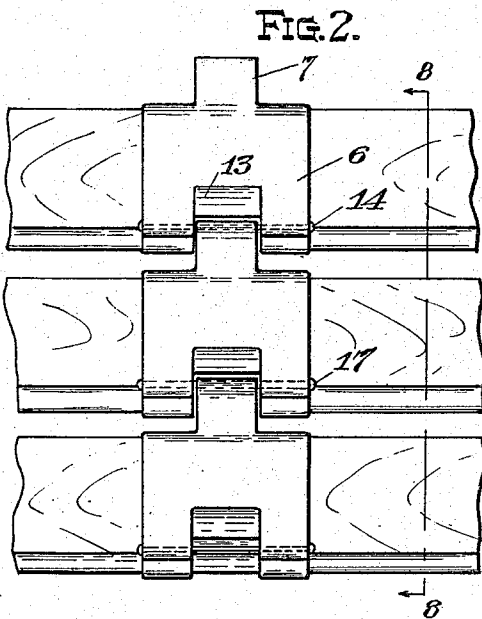
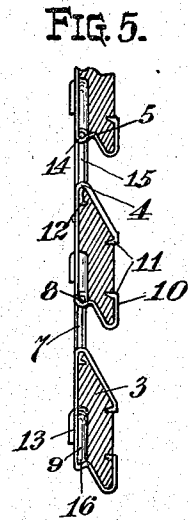
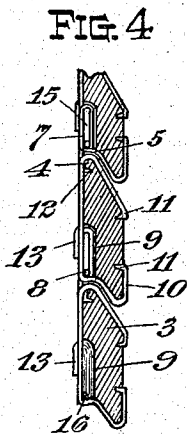
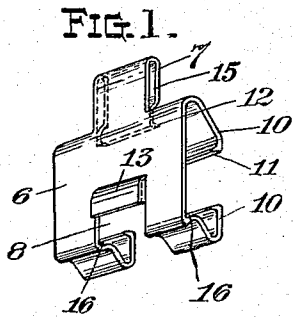


C. BAUER.  
SCREEN.

APPLICATION FILED MAY 9, 1912.

1,174,539.

Patented Mar. 7, 1916.



WITNESSES.

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# UNITED STATES PATENT OFFICE.

CONRAD BAUER, OF PITTSBURGH, PENNSYLVANIA.

SCREEN.

1,174,539.

Specification of Letters Patent.

Patented Mar. 7, 1916.

Application filed May 9, 1912. Serial No. 696,153.

*To all whom it may concern:*

Be it known that I, CONRAD BAUER, a citizen of the United States of America, residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented new and useful Improvements in Screens, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, which form part of this specification.

My invention is an improvement in screen or shutter construction, being one particularly susceptible to embodiment in screens of the rolling type. Its primary object is to provide a new and improved form of device for connectively mounting the slats which form the screen or shutter proper.

With the above object in view I aim to so form the connecting members as to permit of limited shifting or separation of the slats for the admission of light and air.

Another object is to so form the members that the slats may be readily separated, removed and replaced whenever desired.

I will now describe my invention, in connection with the accompanying drawings, so that others skilled in the art to which it appertains may understand and construct the same, it being premised, however, that changes may be made in the specific construction shown without departing from the principle of my invention and I do not therefore desire to limit myself thereto.

While I have shown a general form of rolling shutter or screen it will be apparent that the shutter is one adapted to fit a window, door or other opening, or even serve as a cabinet cover.

Figure 1 is a perspective view of the clip member employed for connecting the slats together; Fig. 2 is an enlarged fragmentary rear elevation showing the relative positions of the clips when the slats are separated as shifted to open position; Fig. 3 is a similar view showing the slats closed; Fig. 4 is a transverse sectional view on the line 7-7 of Fig. 3, and Fig. 5 is a similar view on the line 8-8 of Fig. 2.

The screen or shutter may be of the fixed or rolling type. The screen is mounted preferably in such manner that in the process of rolling the rear faces of the slats will assume a position facing the surface of the roller if the screen is fastened to a roller. The slats 3 may be formed with the upper curved edge or nose 4, formed complemen-

tary with which is the lower curved edge 5 which coöperates with the edge 4 to form a pivotal bearing point for the contiguous slats and thereby operate to keep all the slats in perfect alinement. Secured to each slat at intervals therealong are the clip members 6 which are formed preferably of sheet metal, such as brass, copper or other substantially non-corrodible metal, which clip is formed with the upwardly extending looped portion 7 which is received by the slot 8 of the next adjoining clip, the slat at this point being recessed, as at 9, to provide a pocket between the wall of the clip and the slat. Any suitable means may be employed for attaching the clip to the slat. I show the clip as having the forwardly extending portions 10 which are terminally pronged as at 11 by means of which prongs the hand-like clip may be firmly bound to the slat. The terminal portion of the upwardly projecting portion 7 may also have a prong 12 adapted to engage the rear faces of the slat.

In order to maintain true alinement the rear wall of the clip at the point where the up-standing member 7 enters the same, may be cupped or stuck outwardly as at 13 to permit of the insertion of the said up-standing member without binding and without the necessity of off-setting it to bring about vertical alinement of the slats.

The numeral 14 indicates a pin which passes through the eye 15 of the member 7 and engages at each side of the clip the curved portion 16 thereof, the said pin being terminally up-set or provided with the heads 17 to prevent longitudinal displacement, while the edge of the slat serves to prevent upward traveling of the pin.

It will be readily seen that by rolling or elevating the shutter or screen as a whole the slats will be progressively opened to an extent permissible by the travel of the member 7 limited by the pin 14. By lowering the screen with the lower slat striking a rest or an abutment, such as the sill of the window, the slats will progressively move together or close one on the other. Thus, as will also be seen, a portion of the shutter may be closed while another portion may remain open.

By removing the pins the clip members may be freely disconnected from one another to permit of the removal and insertion of the slats and of the progressive building up of the screen, the screen having no con-

tinuous connecting ribbon or tape to prevent such removal and insertion.

The advantages of my invention will be appreciated by those skilled in the art. The device is simple in construction and in the embodiment shown presents a structure neat and symmetrical in appearance. The clip members may be formed of sheet metal and easily attached without injury to the slats.

Having thus described my invention what I claim and desire to secure by Letters Patent is:

1. In a screen, a plurality of parallel slats, and means connecting said slats together, comprising clip members embracing the slats, each having a projecting tongue portion provided with an elongated opening, said tongue portion being received by the next adjacent clip, and pivotal means carried by the clips and lying in the elongated

openings, whereby the clips may be shifted one on another for opening and closing of the slats.

2. In a screen, a plurality of parallel slats, and means connecting said slats together, comprising sheet metal clip members embracing the slats and having each a projecting tongue portion provided with an elongated opening, said tongue portion being received by the next adjacent clip, and pivotal means carried by the clips and lying in the elongated openings, whereby the clips may be shifted one on another for opening and closing of the slats.

In testimony whereof, I have hereunto set my hand in the presence of two witnesses.

CONRAD BAUER.

Witnesses:

M. A. KELLER,  
MARY A. BARTH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."