Sept. 22, 1931. F. R. ADAMS 1,824,187

WINDOW SCREEN FRAME

Filed Feb. 1, 1930

Fig. 1

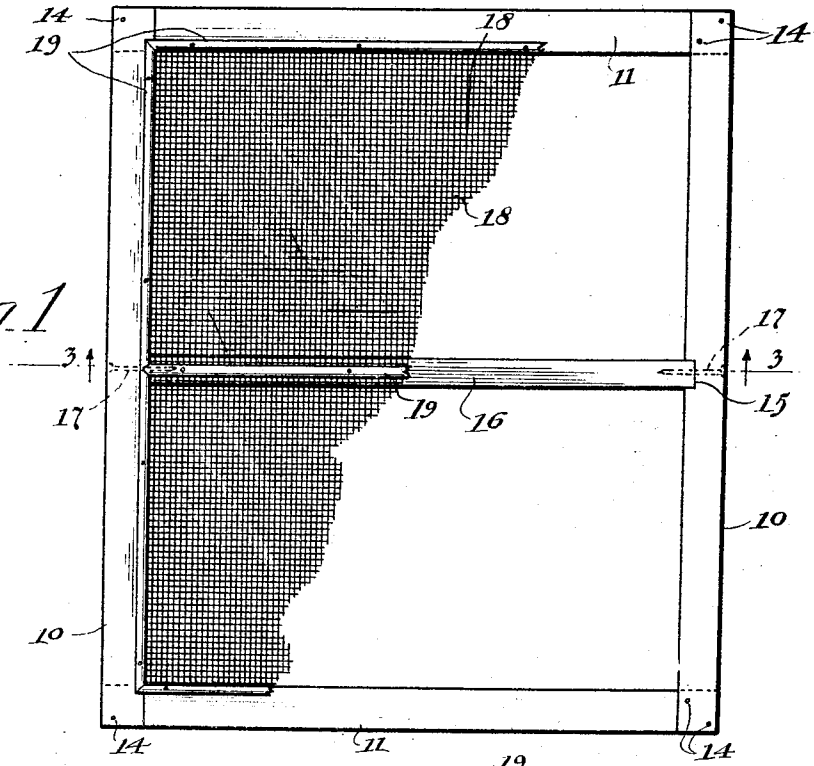


Fig. 2

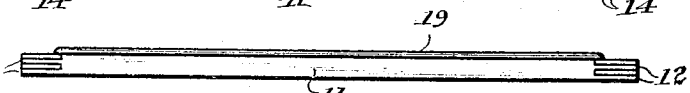


Fig. 3

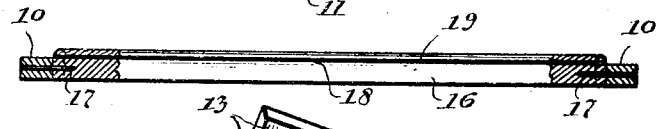
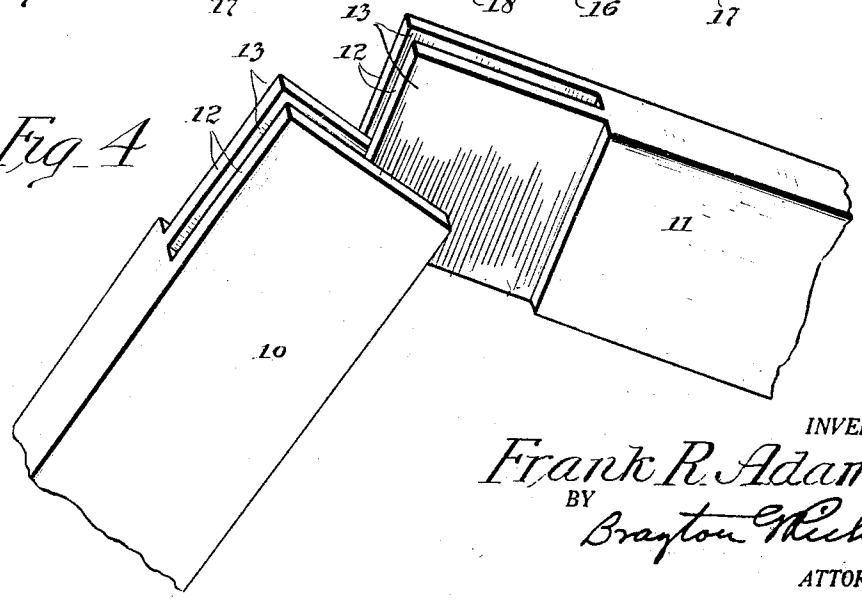


Fig. 4



INVENTOR.

Frank R. Adams

BY

Brayton Richards

ATTORNEY.

Patented Sept. 22, 1931

1,824,187

UNITED STATES PATENT OFFICE

FRANK RICHARD ADAMS, OF CHICAGO, ILLINOIS

WINDOW SCREEN FRAME

Application filed February 1, 1930. Serial No. 425,096.

The invention relates to improvements in window screen frames and has for its primary object the provision of an improved construction of this character so constructed and arranged as to be capable of economical manufacture and strong and rigid in use.

Another object of the invention is the provision of a frame of the character indicated having improved corner joints and a cross brace rigidly mounted therein.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which

Fig. 1 is a face view of a window screen frame shown with portions broken away and embodying the invention;

Fig. 2 a bottom plan view of the same;

Fig. 3 a section taken substantially on line 3—3 of Fig. 1; and

Fig. 4 a perspective view illustrating the form of corner joint employed between the frame members.

The embodiment of the invention illustrated in the drawings comprises upright side members 10 and horizontal cross members 11 arranged as shown to form a rectangular window screen frame. The members 10 and 11 are made of suitable wood and are provided at each end with two alternating tongues 12 and grooves or notches 13, one of said tongues being arranged flush with one side of the member and one of said grooves or notches flush with the other side, the notches in each member being adapted and arranged to receive the tongues in the other, thereby forming a reinforced corner joint flush and smooth on all sides as shown. The corner joint thus provided may be further secured by means of brads or nails 14. The upright side members 10 are provided on their inner edges with medial notches 15 adapted and arranged to receive the ends of a cross brace 16 as shown, the cross brace 16 being of the same thickness as the frame members so as to bring its surfaces flush with the surfaces of the frame members. The cross brace 16 may also be secured in its notches 15 by means of nails or brads 17 driven through the side members 10 as shown. The wire mesh screen material 18 is stretched over and secured to the frame by means of mouldings 18 as indicated.

By this arrangement a strong, rigid and durable window-screen frame is provided which is capable of economical manufacture from wooden parts. The specific form and arrangement of parts is a simple and efficient one for the purpose.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I therefore do not wish to be limited to the precise details disclosed, but desire to avail myself of such variations and modifications as fall within the scope of the appended claims.

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

1. A window screen frame comprising upright side and horizontal cross members joined together at the corners, each member being provided at each end with alternate tongues and grooves, a tongue being arranged flush with one surface and a groove at the other, said tongues and grooves being oppositely arranged on adjacent members to interfit and form a smooth flush joint on both sides of the frame at each corner, there being rectangular notches in the inner sides of said upright members; and a cross brace traversing said frame with its ends fitted and secured in said notches.

2. A window screen frame comprising upright side and horizontal cross members joined together at the corners, each member being provided at each end with alternate tongues and grooves, a tongue being arranged flush with one surface and a groove at the other, said tongues and grooves being oppositely arranged on adjacent members

to interfit and form a smooth flush joint on both sides of the frame at each corner, there being rectangular notches in the inner sides of said upright members; a cross brace traversing said frame with its ends fitted into and secured in said notches; and nails driven through the sides of said upright members and into the ends of said cross brace.

3. A window screen frame comprising upright side and horizontal cross members joined together at the corners, there being rectangular notches in the inner sides of said upright members; a cross brace traversing said frame with its ends fitted into and secured in said notches; and nails driven through said upright members into the ends of said cross brace.

In witness whereof, I have hereunto set my hand this 18th day of January, 1930.

FRANK RICHARD ADAMS.