Oct. 30, 1951 J. J. MEYER 2,573,156

SCREEN WITH REMOVABLE PANEL

Filed April 22, 1946

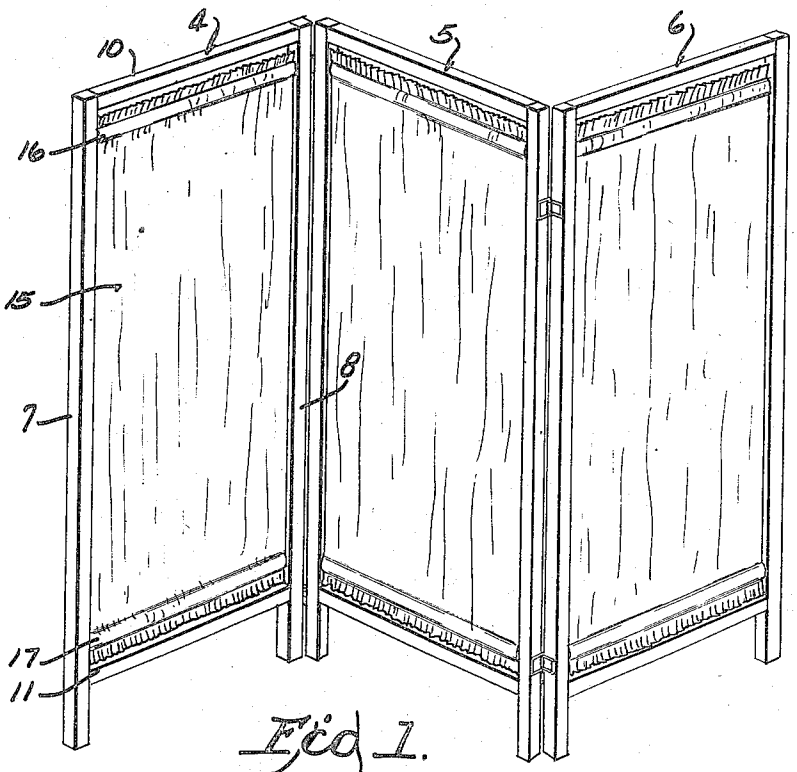


Fig. 1.

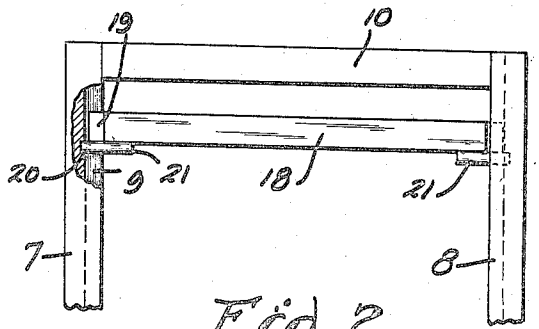


Fig. 2.

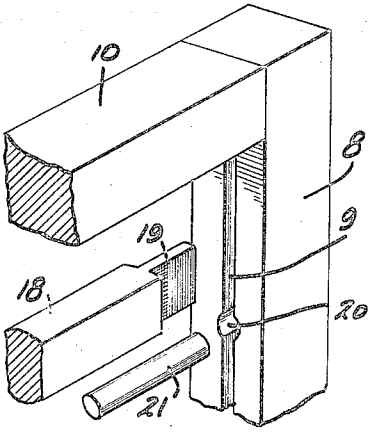


Fig. 3.

INVENTOR.
JOSEPH J. MEYER

BY

Wheeler, Wheeler & Wheeler

ATTORNEYS

Patented Oct. 30, 1951

2,573,156

UNITED STATES PATENT OFFICE

2,573,156

SCREEN WITH REMOVABLE PANEL

Joseph J. Meyer, Milwaukee, Wis., assignor to G-H Specialty Company, Milwaukee, Wis., a corporation of Wisconsin

Application April 22, 1946, Serial No. 663,920

7 Claims. (Cl. 160—378)

1

This invention relates to improvements in folding screens.

It is the object of the invention to provide a novel and improved means whereby fabric may be stretched in a panel of a folding screen or the like. It is desired to facilitate the support of the fabric in its stretched position and to facilitate the removal of the fabric for the cleansing thereof or for the painting of the screen, or for any other purpose. The invention will be more fully apparent upon the following disclosure thereof.

In the drawings:

Fig. 1 is a view in perspective of a three-section screen embodying the invention.

Fig. 2 is an enlarged detail view of one section partially in elevation and partially in section.

Fig. 3 is a further enlarged detail view of a corner of one section in perspective, component parts being separated.

Since the three sections 4, 5, 6, which are mutually hinged to make up the screen, may be of identical construction so far as the present invention is concerned, it will suffice to describe but one.

The longitudinal members 7, 8 are longitudinally kerfed at 9 along their inner faces. They are connected by top and bottom rails 10, 11 which may be applied thereto in any desired manner to make up a rigid frame.

The web of fabric 15, which is to comprise the panel within the frame thus constituted, has hems at 16, 17 near its top and bottom ends. These hems are adapted to receive the removable cross bars 18, each of which is provided at each end with a terminal tongue 19 receivable into the appropriate kerf 9.

Intersected by the kerfs 9 are holes 20, bored into the inner faces of the vertical members 7, 8. These holes are adapted to receive pieces of dowelling 21 which serve as pins to prevent the movement of the bars 18 toward each other under tension of the stretched web 15 of fabric.

The fabric is first anchored at its lower end by manipulating the lower bar 18 to introduce its tongues 19 into the kerfs 9 and by placing the pins above such tongues. The fabric is then tensioned while manipulating the upper bar 18 to introduce its tongues into the kerfs. With the fabric under tension, the upper pins 21 are inserted and the fabric is spread to cover and conceal them. The tension of the fabric prevents the accidental loss of the pins but by slight additional tension on the fabric, such as may readily be exerted by a person desiring to disassemble the

2

screen, the cross bar may be lifted from the pins, thereby permitting the ready withdrawal of the pins. Thereupon the bars may be removed from the frame and withdrawn from the hems of the fabric, leaving the frame open and the fabric completely disconnected therefrom.

I claim:

1. In a device of the character described, a frame comprising spaced members having opposed longitudinally extending kerfs and provided with holes intersected by the kerf, together with a cross bar having tongues complementary to the kerf, and pins removably positioned in the holes in engagement with said bar.

2. In a device of the character described, the combination with spaced frame members having opposing channels and provided with bores leading oppositely into the members from the bottoms of the respective channels, of a cross bar having end portions slidably disposed in the channels of said members, and substantially aligned pins removably positioned in the bores and extending into the respective channels and engaged by the cross bar.

3. In a device of the character described, the combination with a frame and a web of material to be positioned therein, of means for positioning one end of said web respecting said frame, the frame being provided remote from said end with a cross bar having its ends slidably interlocking with said frame for movement longitudinally of the frame toward and away from said end, the fabric being connected with the cross bar and maintained under tension thereby, and the frame having substantially aligned apertures entering the frame at opposite sides thereof in a transverse direction in the path of slidable movement of said cross bar, pin means removably fixed in the frame apertures for positioning the cross bar respecting the frame to maintain said web tension, the tension of the web holding the bar in pressure engagement with the pin, whereby frictionally to secure the pin in the frame apertures.

4. In a device of the character described, the combination with a frame comprising spaced members having opposed longitudinally extending kerfs, of a pair of cross bars removable from the frame and having tongues in the kerfs of said members, a web having hems through which said cross bars extend, and pins removably disposed in the kerfs of the frame between the cross bars and engaged by the tongues, said pins being at a distance so related to the length of said web between its hems as to support said cross bars with said web under tension.

5. In a device of the character described, the combination with spaced frame members having opposing channels and provided with bores leading oppositely into the members from the bottoms of the respective channels, of a cross bar having end portions slidably disposed in the channels of said members, and substantially aligned pins removably positioned in the bores and extending into the respective channels and engaged by the cross bar, in further combination with a web under tension, having a connection with said frame remote from said bar and attached to said bar, the tension of the web holding the bar in engagement with said pins and such tension being maintained by, and dependent on, such engagement.

6. The combination of claim 5 in which the ends of the pins project from the members.

7. The combination of claim 5 in which the ends of the pins project from the members and the web has a hem releasably containing the pins and the bar.

JOSEPH J. MEYER.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
529,899	Dixson	Nov. 27, 1894
991,722	Hourd	May 9, 1911
1,093,119	Donavan	Apr. 14, 1914
1,568,494	Anastas	Jan. 5, 1926
1,937,076	Werk	Nov. 8, 1933