

April 1, 1930.

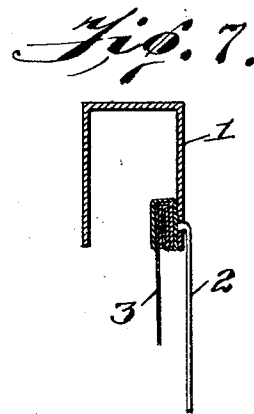
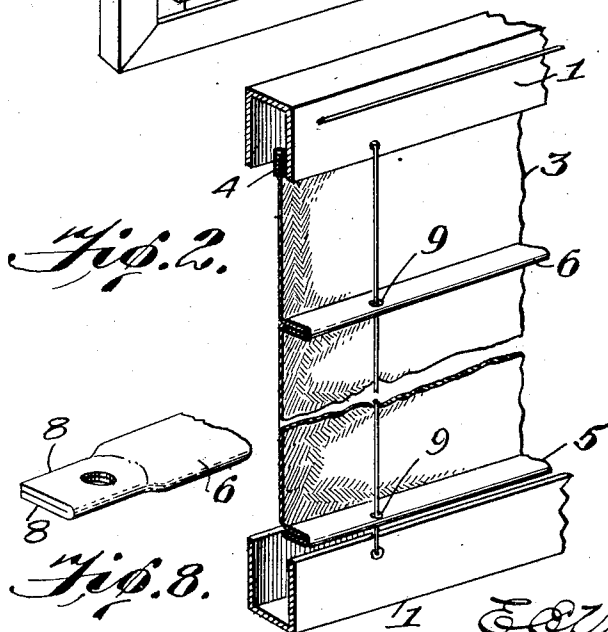
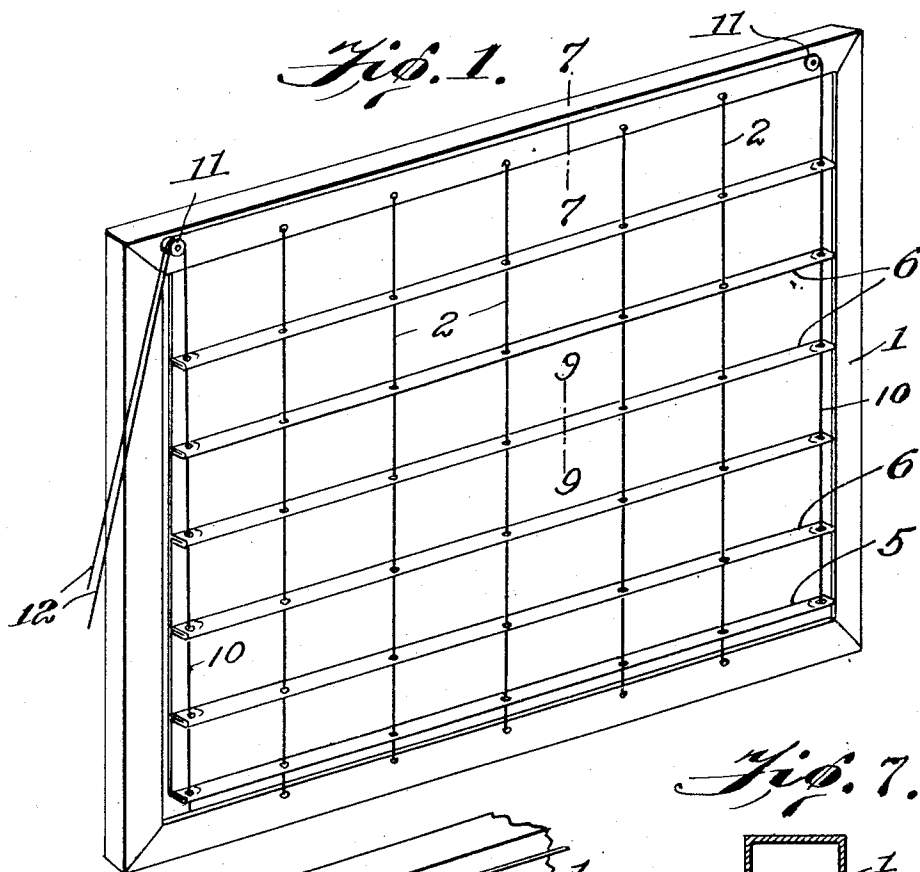
W. B. McSPADDEN

1,752,610

AWNING OR CURTAIN

Filed Nov. 28, 1928

2 Sheets-Sheet 1



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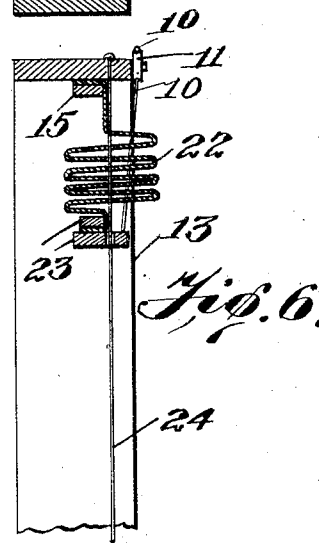
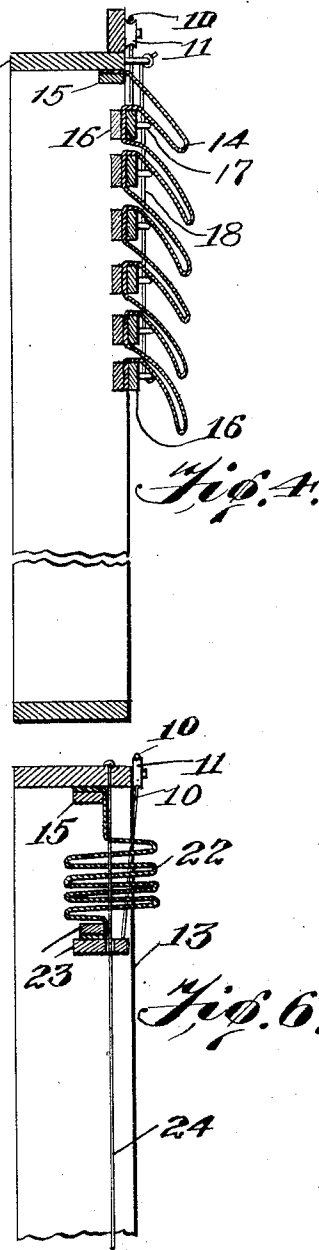
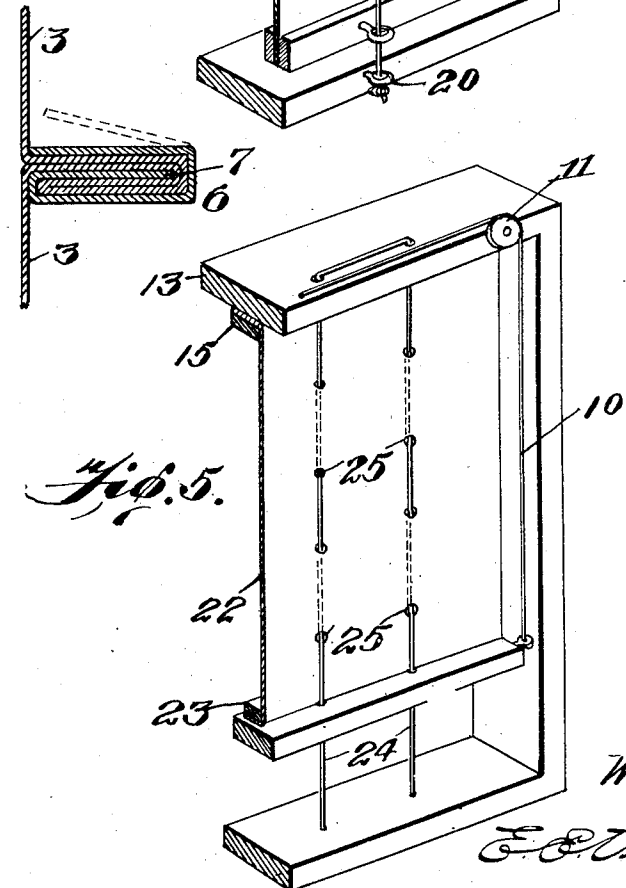
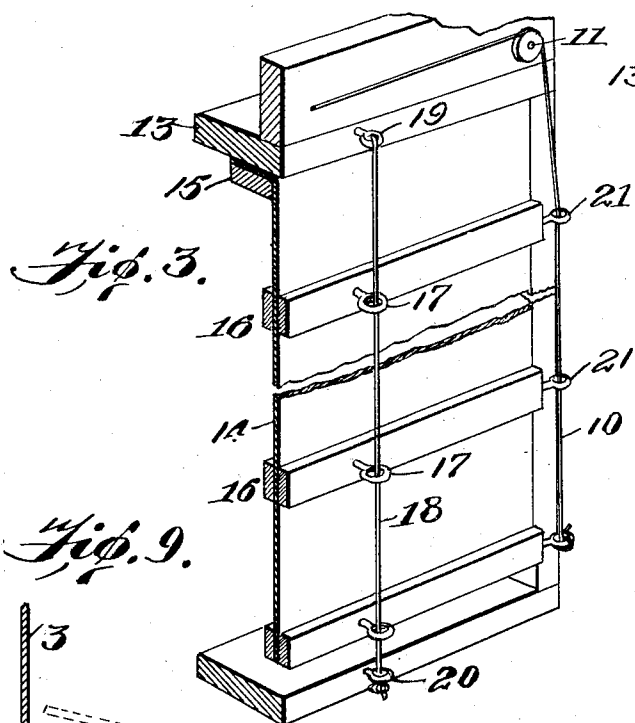
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AWNING OR CURTAIN

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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

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AWNING OR CURTAIN

Application filed November 28, 1928. Serial No. 322,419.

This invention relates to an awning or curtain.

The object of my invention is the construction of an efficient and attractive curtain or awning for application to various structures among which can be mentioned porches, windows, wagons, garage stalls, etc.

Another object of my invention is the construction of a curtain that has a plurality of efficiently constructed slats or cleats arranged across it, whereby an attractive curtain is produced, as well as a long lived one, since the guides therefor, as well as the lifting means are associated with the slats and fabric of which the body of the curtain is formed.

With the foregoing and other objects in view, my invention comprises certain novel constructions, combinations and arrangements of parts as will be hereinafter fully described, illustrated in the accompanying drawings, and more particularly pointed out in the appended claims.

In the drawings:

Figure 1 is a perspective view of a device constructed in accordance with the present invention.

Figure 2 is an enlarged fragmentary perspective view, partly shown in section, of the device.

Figure 3 is a fragmentary, perspective view, partly in section, of another embodiment of the device.

Fig. 4 is a vertical, sectional view of the device shown in Figure 3, with the curtain and slats in a raised position.

Figure 5 is a fragmentary, perspective view partly shown in section, of another embodiment of the present invention, while

Figure 6 is a vertical, sectional view of the same with the curtain in a raised position.

Figure 7 is an enlarged sectional view taken on line 7—7, Figure 1.

Figure 8 is an enlarged perspective view of one of the slats, showing how the ends of each slat are crimped or pinched tightly together to form a secure fastening for the fabric therein.

Figure 9 is an enlarged sectional view taken on line 9—9, Figure 1.

Referring to the drawings by numerals, 1

designates the channeled frame which in cross section is substantially U-shape (Fig. 7). A plurality of vertical guides 2 (formed of metal, like wire, or fabric, like cord) are fastened at their ends to the horizontal portions of the frame for the purpose hereinafter described.

The fabric awning or curtain 3 has a top slat 4 attached to its upper edge and a bottom slat 5 attached to its lower edge; there are a plurality of intermediate slats secured to the curtain 3 between the top and bottom slats. Each slat comprises a blank strip of sheet-like metal folded with its inner edge 7 (Fig. 9) within the body of the fold and a part of the curtain 3 is double folded into the double fold of the slat, so that each metal slat is doubly folded over doubly folded portions of the curtain, as clearly shown in enlarged view Fig. 9. This produces a very secure fastening means for retaining the slats upon the curtain, besides ornamenting the curtain, as well as forming practically indestructible guide-receiving means. Each slat is crimped or pressed together at 8, 8, at each end, which further fastens or locks the slat and fabric together, making a very secure connection. It will be seen upon referring to Figures 1 and 2 that the guides 2 extend through apertures 9 in the metal slats, allowing the curtain to fold freely upon the guides 2 or open, as the operator desires.

The upper slat 4 is fastened to the inner face of the front portion of the frame 1 (Fig. 7), and the lower slat 5 is turned at right angles to the body of the curtain, and is positioned to slide freely upon the vertical guides 2. To lift or fold the curtain, I attach lifting cords or cables 10 to the lower slat 5, these cables being threaded through the slats and over pulley 11, as clearly shown in Figure 1. By drawing upon the ends 12, the curtain will be easily folded or moved to the upper part of the frame 1, whereby the frame is "open;" upon the operator releasing the cables 10, the curtain of its own weight will move to its closed position, as shown in Figure 1, or from left to right or right to left if so placed. This curtain or device can be used or made to be used other than vertically.

In the embodiment shown in Figure 3, the frame 13 has the upper end of curtain 14 secured between a cleat 15 and the upper horizontal portion of the frame. The slats 16 are made of two parts; the two parts of each slat are arranged at opposite sides of the curtain 14, with the eye-bolts or screw eyes or staples or rings or loops or other means 17, holding the parts together. Guides 18 are provided, extending through the eye-bolts 17, and each guide 18 has its upper end fastened to the eye-bolt 19, screw eyes, staples, rings, loops, or other means, and its lower end to an eye-bolt 20. On the ends of the slats 16, or at any suitable place or places, are eye-bolts 21, screw eyes, staples, rings, loops, or other means, and lifting cables 10 connected to eye bolts, screw eyes, rings, loops, or other means, on the lower slat and are threaded through eye bolts 21, screw eyes, staples, rings, loops, or other means, over pulley 11 and are operated in the same manner as specified for the embodiment shown in Figure 1.

In the embodiment shown in Figures 5 and 6, the curtain 22 is fastened at the top in the same manner as curtain 14. Strips 23 are fastened against the lower edge of the curtain with guides 24 threaded through one of the strips and also through aperture 25 in the curtain, the upper ends of the guides 24 are fastened to the upper part of the frame 13. The lifting cables 10 are fastened to the ends, or any suitable place, of the lower cleats, and pass over pulleys 11, can be the same as the embodiment shown in Figure 1.

It is to be understood that my improved curtain device will act as an awning to keep the sun rays out, or will act to close an opening, in such places as a closure is desired, or will act efficiently as purely a curtain under conditions requiring only a curtain.

While I have described the preferred embodiment of my invention and illustrated the same in the accompanying drawings, certain minor changes or alterations may appear to one skilled in the art to which this invention relates during the extensive manufacture of the same, and I, therefore, reserve the right to make such changes or alterations as shall fairly fall within the scope of the appended claims.

What I claim is:

1. In a device of the class described, the combination of a curtain, metal slats on the upper and lower edges and positioned also between the upper and lower edges on the curtain, guides threaded through the slat on the lower edge and the intermediate slats of the curtain, and lifting cables threaded through the intermediate slats and fastened at their lower ends to the lower slat.

2. In a device of the class described, the combination of a curtain, slats folded and pressed upon the curtain, guides threaded through said slats, and lifting cables con-

nected at their lower ends to the lowest slat of the curtain.

3. In a device of the class described, the combination of a curtain provided with metal slats folded over its upper and lower edges, intermediate slats folded upon portions of said curtain, guides extending through the intermediate and lower slats, and means connected to said lower slat for lifting the curtain.

4. In a device of the class described, the combination of a curtain, metal slats folded upon portions of said curtain with portions of the curtain in a double fold within each slat, guides extending through the metal slats, and lifting means for said curtain.

5. In a device of the class described, the combination of a curtain, double folded slats on said curtain with double folds of the curtain in each slat, and means for lifting the curtain.

6. In a device of the class described, the combination of a curtain, metal slats folded upon portions of said curtain, each slat pinched or compressed together tightly at its ends, guides extending through said slats, and lifting means for said curtain.

7. In a device of the class described, the combination of a curtain with a slat on its upper edge and with a horizontally arranged slat on its lower edge, guide-receiving means on said horizontally arranged slat, guides extending through said guide-receiving means, and lifting means connected to said horizontally arranged slat, whereby the curtain can be raised and lowered upon said guides.

8. In a device of the class described, the combination of a curtain, metal slats on the curtain, each slat comprising a double fold with a double fold of the curtain therein, means between the ends of the slats for guiding the curtain, each slat pressed or pinched together tightly at its ends upon said curtain, and lifting means extending through the slats near said pressed ends, substantially as shown and described.

9. In a device of the class described, the combination of a curtain, a series of slats fastened to the curtain, guides extending through said slats, and lifting means connected to one of the slats for lifting the curtain.

10. In a device of the class described, the combination of a curtain, metal slats on the upper and lower edges of the curtain, intermediate slats on said curtain guides threaded through the slat on the lower edge and the intermediate slats of the curtain, and lifting cables threaded through the intermediate slats and fastened at their lower ends to the lower slat.

11. In a device of the class described, the combination of a curtain, an upper slat against the upper edge of said curtain and a lower slat against the lower edge of the curtain, said lower slat having guide-receiving

means, guides in said guide-receiving means, and lifting means attached to said lower slat.

12. In a device of the class described, the combination of a curtain provided with a slat along its upper edge and a slat along its lower edge, intermediate slats on said curtain, said lower and intermediate slats provided with guide-receiving means, a guide in said guide-receiving means, and lifting means connected to said lower slat.

13. In a device of the class described, the combination of a curtain with a slat on its upper edge and with a horizontal slat on its lower edge, guides extending through said horizontal slat, and lifting means connected to said horizontal slat, whereby the curtain can be raised and lowered upon said guides.

14. In a device of the class described, the combination of a curtain, a series of slats fastened to said curtain, said slats provided with guide receiving means, guides in said guide-receiving means, and lifting means connected to one of the slats for lifting the curtain.

In testimony whereof I hereunto affix my signature.

WALKER B. McSPADDEN.