

No. 772,645.

PATENTED OCT. 18, 1904.

J. S. DRAPER.
CARRIAGE TOP.

APPLICATION FILED SEPT. 11, 1903.

NO MODEL.

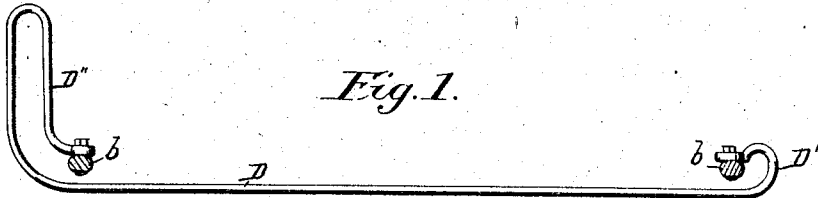


Fig. 1.

Fig. 3.

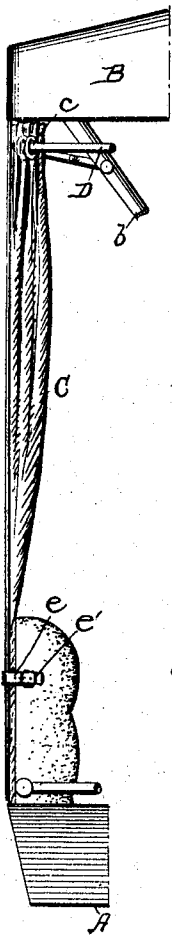


Fig. 2.

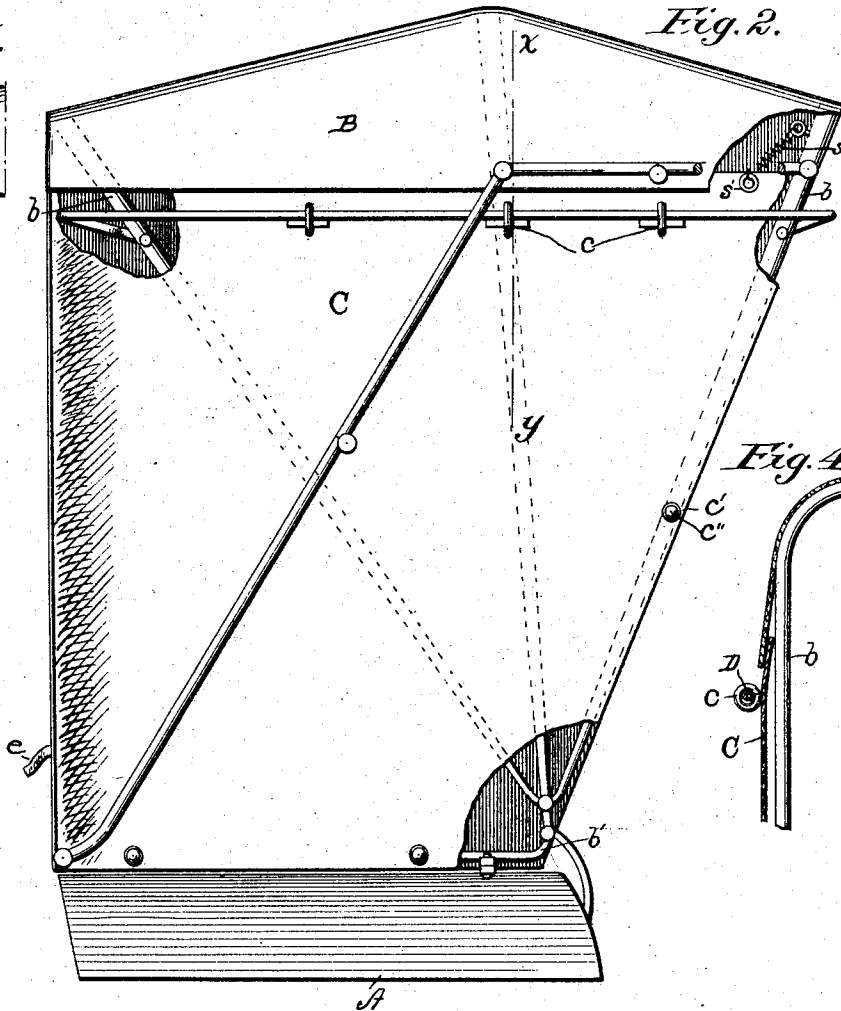
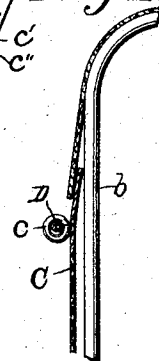


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

JERMON S. DRAPER, OF VOLINIA, MICHIGAN.

CARRIAGE-TOP.

SPECIFICATION forming part of Letters Patent No. 772,645, dated October 18, 1904.

Application filed September 11, 1903. Serial No. 172,847. (No model.)

To all whom it may concern:

Be it known that I, JERMON SANFORD DRAPER, a citizen of the United States, residing at Volinia, in the county of Cass and State of Michigan, have invented a new and useful Improvement in Carriage-Tops, of which the following is a specification.

This invention relates to improvements in carriage-tops.

The main object of this invention is to provide an improved carriage-top the side curtains of which may be adjusted to any desired position by the occupant without the occupant leaving his seat.

Further objects and objects relating to structural details will appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification.

The invention is clearly defined and pointed out in the claims.

A structure embodying the features of my invention is clearly illustrated in the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a plan view of the curtain-supporting rod D, sections of the top bows *b*, by which it is supported, being shown in connection therewith to show the relation of the parts. Fig. 2 is a side elevation view of my improved carriage-top, portions being broken away to show the arrangement of the parts. Fig. 3 is a detail side elevation view with the curtain in its collapsed or closed position. Fig. 4 is a detail sectional view taken on a line corresponding to the line *xy* of Fig. 2.

In the drawings similar letters of reference refer to similar parts throughout the several views.

Referring to the lettered parts of the drawings, the seat A is of the usual or any desired style. The top B is of the common bow construction. Side curtains C are provided. These side curtains C are secured to the back portion of the top in the usual or any desired manner and are provided with eyelets *c'* along the front and bottom edge, which may be secured over the studs *c''*, projecting from the front top bow and the bottom side rail of the

top. The curtains C are supported by the rods D, to which they are secured by means of the rings *c*, which project from the side thereof near the top. These rings are threaded upon the rods D. The rods D are secured to the front and rear bows *b* of the carriage-top by suitable bolts or screws which are arranged through suitable eyes in the ends of the rods. The forward ends of the rods D are formed into inturned hooks *D'*, so that the eyes in the ends of the rod are brought inside of the bows. The rear ends of the rods are formed into inwardly-extending loops *D''*, as clearly appears in Fig. 1. When the curtain is collapsed or closed, the supporting-rings are slipped along the rod into the loops *D''*, so that the curtain is supported in the rear part of the carriage-top. A retaining-strap *e* on the back piece of the carriage-top and a buckle *e'* on the seat-cushion (see Figs. 2 and 3) are provided for retaining the side curtains in their open position. A coiled spring *s* holds the curtain in its closed position under tension. The spring *s* has sufficient tension to hold the upper edge of the curtain firmly under the flap of the top covering. (See Fig. 4.) This spring and the supporting-rod also hold the curtain in a smooth position, so that the same does not sag or wrinkle.

In opening or collapsing the curtain it is only necessary to release the spring *s* and the eyelets *c'* and push the curtain rearwardly, so that the supporting-rings *c* slide into the loop *D''*. The eyelets *c'* can be released from the stud *c''* as the opening progresses, so that it is not necessary for the occupant of the carriage to leave his seat to open the curtain. When open, the retaining-strap *e* is secured by a buckle *e'*, so that the curtain is held in its open position. When it is desired to close the curtain, the strap *e* is released and the curtain drawn forward. The eyelets *c'* are secured and the spring *s* engaged in the eyelet *s'* at the top of the curtain.

If desired, the rods D may be jointed, so that the top may be collapsed in the usual manner.

By arranging the parts as I have described the curtain may be quickly and easily adjusted and when in either the open or closed po-

sition presents a neat and attractive appearance.

I have illustrated and described my improved carriage-top in the form preferred by me on account of its structural simplicity and the economy of producing the same. I am, however, aware that it is capable of considerable variation in structural details without departing from my invention.

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

1. In a carriage-top, the combination of the top bows; a side curtain; a supporting-rod for said side curtain having an inwardly-curved hook at its forward end, secured to the front bow of the top, and an inwardly-projecting loop at its rear end, secured to the rear bow of the top; rings on said curtains threaded on said rod; a coiled spring for retaining said curtain in its open position; and a strap for retaining said curtain in its closed position, for the purpose specified.

2. In a carriage-top, the combination of the top bows; a side curtain; a supporting-rod for said side curtain having an inwardly-curved hook at its forward end secured to the front bow of the top, and an inwardly-projecting loop at its rear end secured to the rear bow of the top; rings on said curtains threaded on said rod; and a coiled spring for retaining said curtain in its open position, for the purpose specified.

3. In a carriage-top, the combination of the top bows; a side curtain; a supporting-rod for said side curtain having an inwardly-curved

hook at its forward end secured to the front bow of the top, and an inwardly-projecting loop at its rear end secured to the rear bow of the top; rings on said curtains threaded on said rod; and a strap for retaining said curtain in its closed position, for the purpose specified.

4. In a carriage-top the combination of the top bows; a side curtain; a supporting-rod for said side curtain having an inwardly-curved hook at its forward end secured to the front bow of the top, and an inwardly-projecting loop at its rear end secured to the rear bow of the top; and rings on said curtains threaded on said rod, for the purpose specified.

5. In a carriage-top, the combination of a side curtain; a supporting-rod therefor, having an inwardly-projecting loop at its rear end; and a spring for retaining said curtain in its open position, for the purpose specified.

6. In a carriage-top, the combination of a side curtain; a supporting-rod therefor having an inwardly-projecting loop at its rear end; and means for retaining said curtain in its adjusted position, for the purpose specified.

7. In a carriage-top, the combination of a side curtain; and a supporting-rod therefor having an inwardly-projecting loop at its rear end; for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

J. S. DRAPER.

Witnesses:

CLYDE W. KETCHAM,
CLAYTON CRAWFORD.