

No. 810,932.

PATENTED JAN. 30, 1906.

C. H. GILL.  
CARRIAGE TOP.

APPLICATION FILED MAR. 25, 1905.

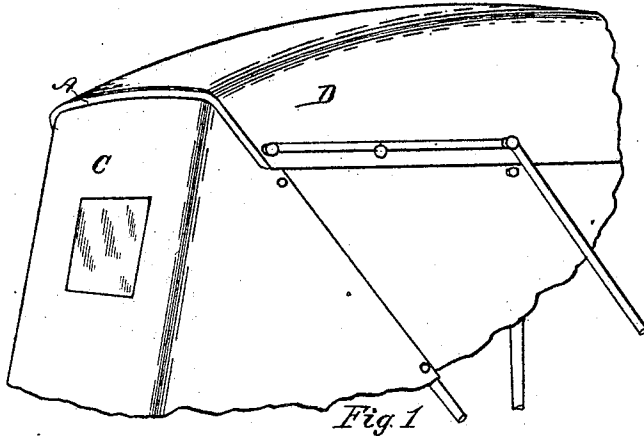


Fig. 1

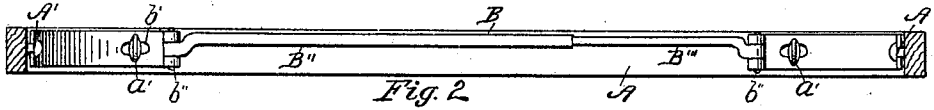


Fig. 2

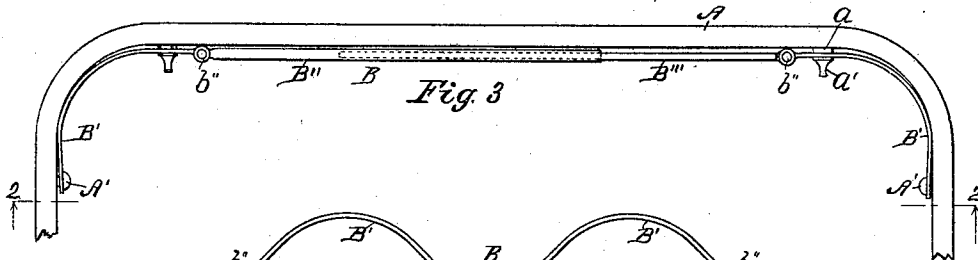


Fig. 3

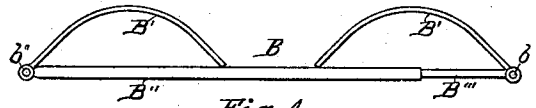


Fig. 4.

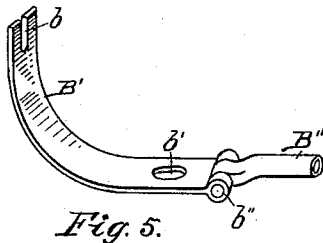


Fig. 5.

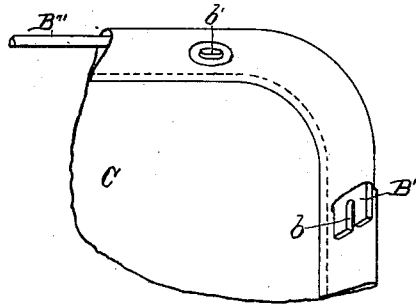


Fig. 6.

Witnesses:

*Wilbur J. Adams*  
*Ethel A. Miller*

Inventor,

*Charles H. Gill*

By *Chappell & Earl*  
Att'ys

# UNITED STATES PATENT OFFICE.

CHARLES H. GILL, OF KALAMAZOO, MICHIGAN, ASSIGNOR, BY MESNE ASSIGNMENTS, OF ONE-HALF TO CHARLES H. RICKARD, OF KALAMAZOO, MICHIGAN.

## CARRIAGE-TOP.

No. 810,932.

Specification of Letters Patent.

Patented Jan. 30, 1906.

Application filed March 25, 1905. Serial No. 251,972.

*To all whom it may concern:*

Be it known that I, CHARLES H. GILL, a citizen of the United States, residing at the city of Kalamazoo, county of Kalamazoo, State of Michigan, have invented certain new and useful Improvements in Carriage-Tops, of which the following is a specification.

This invention relates to improvements in carriage-tops, particularly to improvements in curtain attachments therefor.

The objects of this invention are, first, to provide in a carriage-top an improved curtain which may be very quickly attached or detached and at the same time when attached is very securely held in position; second, to provide in a carriage-top an improved curtain which may be adjusted to tops of varying sizes and styles; third, to provide in a carriage-top an improved curtain which when removed from the top may be folded or rolled into a very compact bundle.

Further objects and objects relating to structural details will definitely 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 detail perspective view of a carriage-top embodying the features of my invention. Fig. 2 is an enlarged detail sectional view of the front bow A removed from the top with my improved curtain rod or support in position therein, the curtain not being shown, taken on a line corresponding to line 2 2 of Fig. 3. Fig. 3 is a detail front elevation view of the structure appearing in Fig. 2. Fig. 4 is a side elevation view of the curtain rod or support removed from the curtain, the same being shown in a folded and partially-collapsed position. Fig. 5 is a detail perspective view of one of my improved curtain rods or supports, showing the structural details thereof. Fig. 6 is a detail perspective view showing my improved curtain rod or support in position in the curtain.

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

Referring to the drawings, the carriage-top D is of the usual bow-type construction. The curtain C is secured to the under side of the front bow A of the top by the rod or support B, which is arranged in the upper edge of the curtain, as clearly appears in Fig. 6. The rod or support B is preferably formed of telescoping members B'' B'''. To the outer ends of these members curved blade-like springs B' are secured by pivots, as b''. The outer ends of the springs B' are provided with notches b, adapted to engage the inwardly-projecting headed studs A' on the top A. The springs B' are also provided with holes b', adapted to receive the studs a, which studs are provided with buttons a' for retaining the springs upon the same. In attaching the curtain the springs B' are engaged upon the studs A' A' and are then engaged over the studs a, and the buttons a' are turned to lock them in place. The upper edge of the curtain is thus securely attached to the under side of the front bow of the carriage. When it is desired to remove the curtain, it is only necessary to turn the buttons a' and pull the springs B' from the studs a, which frees the entire fastener. As the rod members of the fastening device may be telescoped together and the springs folded thereon, as illustrated in Fig. 4, the curtain may be folded into a comparatively compact package. By forming the rod or support of members adjustably secured together the curtain may be attached to tops varying in size. A desirable structure may be produced if this adjustable feature is eliminated, as owing to its spring features it would still be capable of being used on tops varying considerably in size and shape.

My improved fastener when attached to the carriage-top is held under spring tension, so that rattling thereof is entirely prevented. The same is quickly and easily attached or detached and holds the curtain very effectively in position. As the upper edge of the curtain is attached to the under side of the front bow A, it is impossible for water from the top to drip on the inside of the curtain.

My improved structure is very economical to produce and is very strong and durable. While I have shown the same as applied to carriage-tops of the common bow construction, I am aware that the same is capable of being applied, with slight modifications, to other styles.

I have illustrated and described my improved curtain for carriage-tops in detail in the form I prefer on account of its convenience in use and also its structural economy and durability. I am, however, aware that the same is capable of considerable structural variation without departing from my invention.

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

1. The combination of a bow carriage-top; a pair of inwardly-projecting headed studs on the front bow thereof; a pair of inwardly-projecting studs having buttons thereon on said front bow; a curtain; a rod or support formed of telescoping members, to which the upper edge of said curtain is secured; and curved springs having notches in their outer ends adapted to engage said headed studs, and holes therein adapted to receive said button-studs, pivotally secured to said rod members, for the purpose specified.

2. The combination of a bow carriage-top; a pair of inwardly-projecting headed studs on the front bow thereof; a pair of inwardly-projecting studs having buttons thereon on said front bow; a curtain; a rod or support to which the upper edge of said curtain is secured; and curved springs having notches in their outer ends adapted to engage said headed studs, and holes therein adapted to receive said button-studs, secured to said rod, for the purpose specified.

3. The combination of a bow carriage-top; inwardly-projecting studs on the front bow thereof; a curtain; a rod or support formed of telescoping members, to which the upper edge of said curtain is secured; and springs adapted to engage said studs pivotally secured to said rod members, for the purpose specified.

4. The combination of a bow carriage-top; inwardly-projecting studs on the front bow thereof; a curtain; a rod or support to which the upper edge of said curtain is secured; and

springs adapted to engage said studs, secured to said rod; for the purpose specified.

5. The combination of a carriage-top; projecting studs on the frame thereof; a curtain; a rod or support formed of adjustably-connected members, to which said curtain is secured; and springs adapted to engage said studs pivotally secured to said members, for the purpose specified.

6. The combination of a carriage-top; projecting studs on the frame thereof; a curtain; a rod or support to which said curtain is secured; and springs adapted to engage said studs secured to said rod, for the purpose specified.

7. The combination of a bow carriage-top; a pair of inwardly-projecting headed studs on the front bow thereof; a pair of inwardly-projecting studs having buttons thereon, on said front bow; a curtain; and a rod or support formed of adjustably-connected members, to which the said curtain is secured, adapted to engage said studs under spring tension, for the purpose specified.

8. The combination of a bow carriage-top; a pair of inwardly-projecting headed studs on the front bow thereof; a pair of inwardly-projecting studs having buttons thereon, on said front bow; a curtain; and a rod or support to which the said curtain is secured, adapted to engage said studs under spring tension, for the purpose specified.

9. The combination of a carriage-top; inwardly-projecting studs on the frame thereof; a curtain; and a rod or support to which the said curtain is secured, adapted to engage said studs under spring tension, for the purpose specified.

10. The combination of a carriage-top; inwardly-projecting studs on the frame thereof; a curtain; and a rod or support formed of adjustably-connected members, to which the said curtain is secured, adapted to engage said studs under spring tension, for the purpose specified.

In witness whereof I have hereunto set my hand and seal in the presence of two witnesses.

CHARLES H. GILL. [L. s.]

Witnesses:

ETHEL A. TELLER,  
OTIS A. EARL.