

(No Model.)

2 Sheets—Sheet 1.

W. M. MORRISON.
STORM CURTAIN FOR BUGGIES.

No. 545,713.

Patented Sept. 3, 1895.

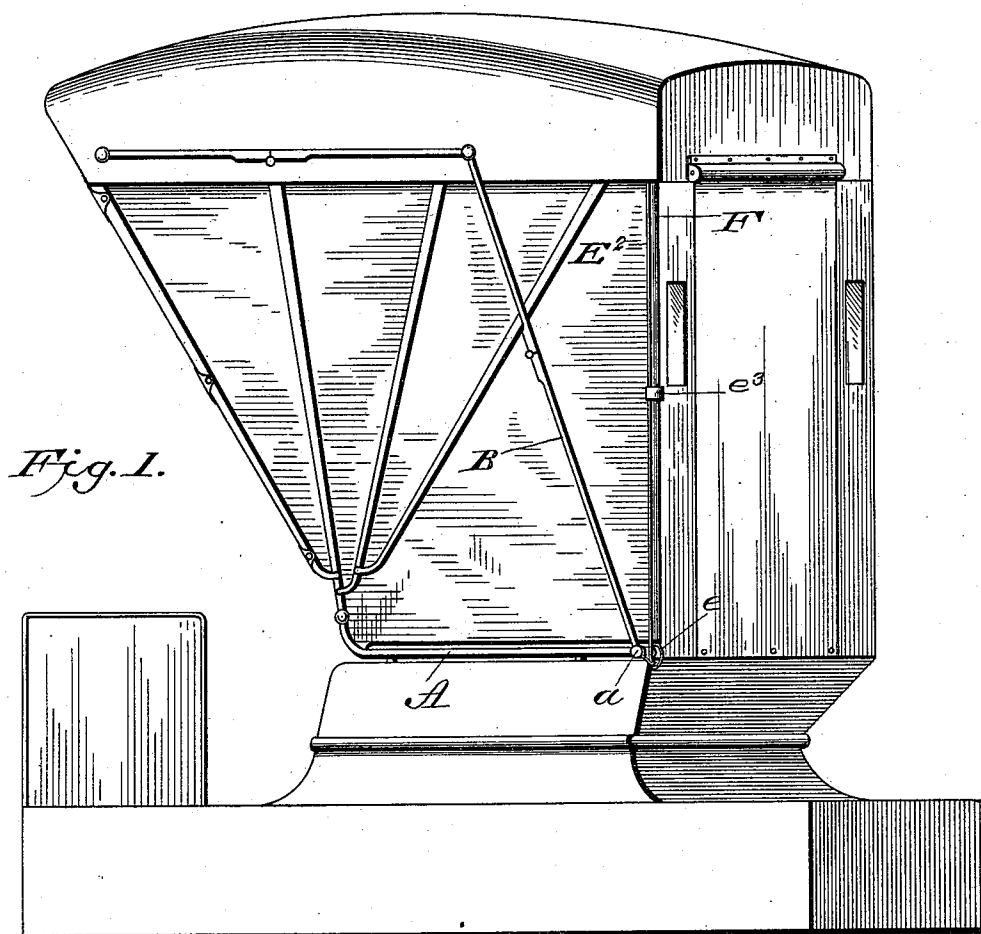
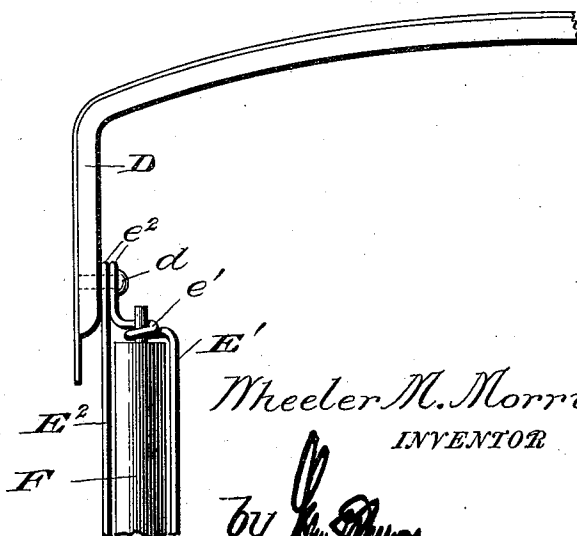


Fig. 4.



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INVENTOR

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Attorney

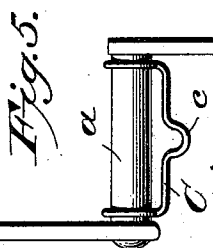
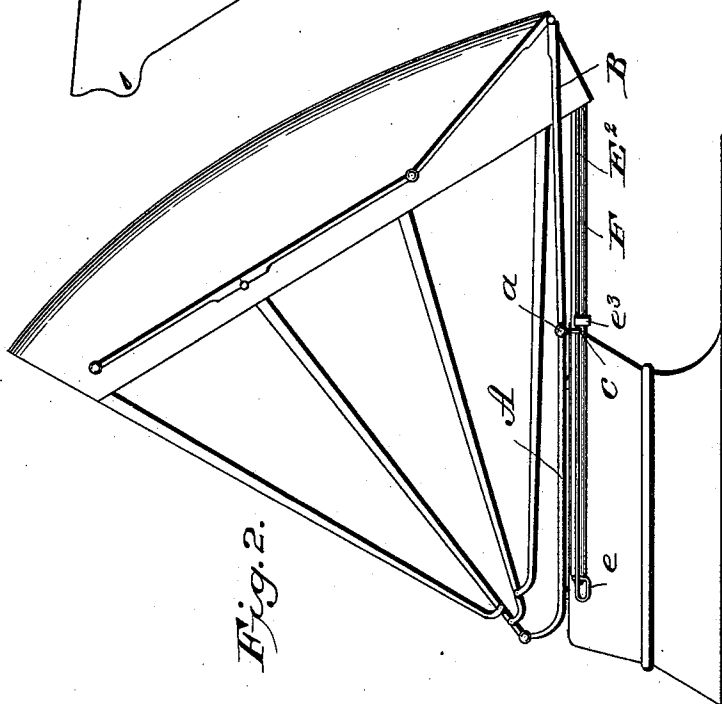
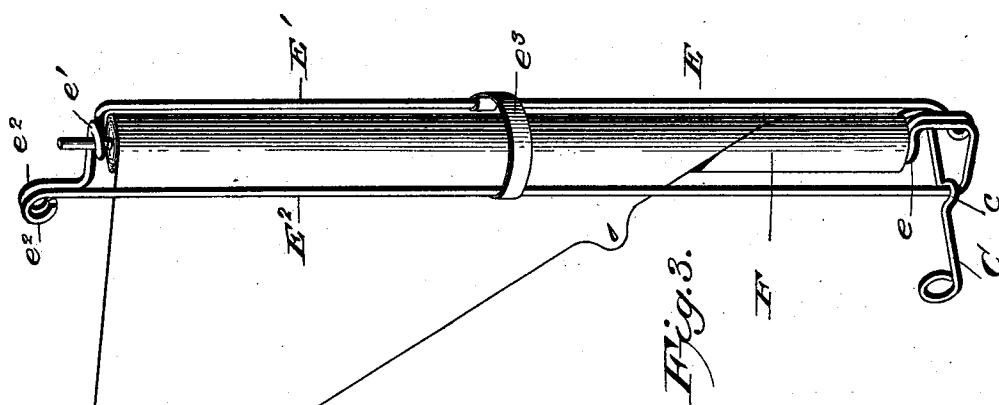
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2 Sheets—Sheet 2.

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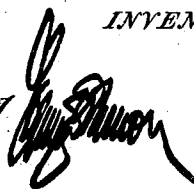
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UNITED STATES PATENT OFFICE.

WHEELER M. MORRISON, OF WEST UNION, OHIO.

STORM-CURTAIN FOR BUGGIES.

SPECIFICATION forming part of Letters Patent No. 545,713, dated September 3, 1895.

Application filed June 27, 1895. Serial No. 554,231. (No model.)

To all whom it may concern:

Be it known that I, WHEELER M. MORRISON, a citizen of the United States of America, residing at West Union, in the county of Adams and State of Ohio, have invented certain new and useful Improvements in Storm-Curtains for Buggies; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of this invention is to provide a folding-top buggy with a side curtain which is mounted on a roller carried by a frame of particular construction, said frame being attached to the side rail and to the buggy-top, so that when the buggy-top is raised the frame will be moved with it, so that the curtain can be unrolled to cover the side of the buggy.

With the above end in view my invention consists in the construction and combination of the parts, as will be hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a perspective view of a buggy-top, showing my invention applied thereto, the curtain being extended. Fig. 2 is a side elevation showing the buggy-top partially lowered, the roller-carrying frame being in a horizontal position or on a line with the side rail. Fig. 3 is a perspective view of my improvement detached from the buggy-top. Fig. 4 is a rear elevation, and Figs. 5 and 6 are detail views.

My invention is designed to be applied to buggy-tops of ordinary construction, and the top may be provided at the upper part of its rear end with a frame inclosing a spring-actuated curtain-roller, to which is attached the rear curtain.

A designates the seat-rail and *a* the stud to which the jointed brace B is connected in the usual manner. To the stud *a* is attached a wire loop C, by means of eyes formed at the ends of said loop. The central portion of the loop C is provided with a smaller loop *c*, as shown in Fig. 5, and with this smaller loop

the roller-carrying frame engages, as hereinafter described.

D designates the bow at the rear end of the upper part of the top, and this bow is provided at its lower ends with inwardly-projecting studs or pins *d*, to which the upper ends of the roller-carrying frames E are attached. The frame E is preferably made up of a single length of wire, which is bent upon itself to provide parallel members E' and E², connected at their lower ends by a section of the wire formed into a bracket or support *e*, having an eye which receives one end of the curtain-roller F, the upper portion of the member E' being formed into an eye *e'* to engage the other end of the curtain-roller and the free ends of both the members E' and E² being formed into eyes *e*² *e*³, which register and engage the studs or headed pins *d* hereinbefore referred to. The roller F upon which the curtain is wound is of the ordinary spring type, so as to make the same self-winding, and it is mounted in the frame E, so that it can turn freely, the frame being centrally braced by means of a loop *e*³, which engages the members E' and E².

When the roller-carrying frame is in position upon the buggy-top, the upper end thereof engages the pin *d*, as hereinbefore described, while the lower end is in sliding engagement with the portion *c* of the loop C, so that when the top is lowered the member E² of the frame will slide upon the loop and cause the roller-carrying frame to assume a horizontal position, as shown in Fig. 2. When the top is up and it is desired to use the curtain, the outer end is grasped and drawn forward, so as to cause the eyelets at the front edge to engage the buttons on the front bow, as shown in Fig. 1. It will be observed that the roller-carrying frame E, being made up of a single length of wire, is cheaply constructed and very light, and the curtain-roller is so positioned that the curtain is easily manipulated by a person seated within the buggy.

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

1. In combination with a buggy top of the ordinary type, a frame carrying a curtain-roller the frame being held in pivotal engagement with the rear bow of the buggy top and

in sliding engagement with the stud carried by the seat or seat-rail, for the purpose set forth.

2. In combination with a buggy top, of a roller carrying frame pivotally connected thereto at its upper end and supported in sliding engagement with means carried by the seat or seat-rail, so that when the top is raised the roller carrying frame will be brought to a substantially vertical position and will automatically assume a horizontal position when the top is lowered.

3. A roller carrying frame for buggy tops consisting of a length of wire bent upon itself to provide eyes for supporting the roller and eyes at its upper end for attachment to the buggy top, together with a loop attached to the seat or seat-rail so as to engage one of the members of the roller carrying frame, substantially as shown, whereby when the buggy top is raised the curtain carrying frame will be in a vertical position so that the curtain can be drawn across one side of the top.

4. In combination with a buggy top, of a roller carrying frame for supporting the side curtains thereof made of a single length of wire bent upon itself to present members E' and E^2 connected at their lower ends by a section of the wire formed into a bracket or support e having an eye which receives one end of the curtain roller, the upper portion of the member E' being formed into an eye e' to engage the other end of the curtain roller, and the free ends of both members being formed into eyes e^2 which engage a pin carried by the buggy top; together with means for holding the lower end of the frame in engagement with the seat or seat-rail, substantially as shown and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WHEELER M. MORRISON.

Witnesses:

SIMS P. FIELDS,
HENRY SCOTT.