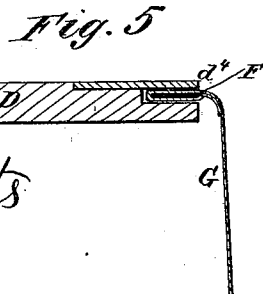
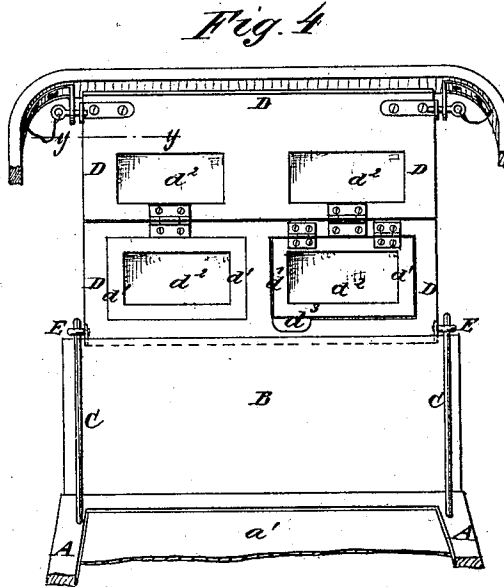
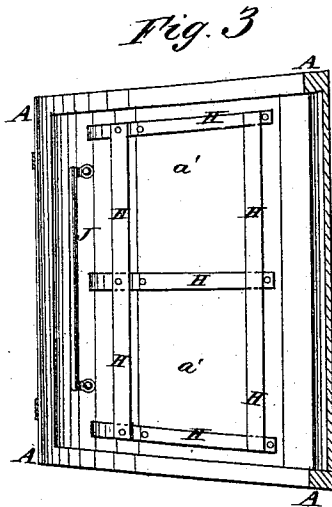
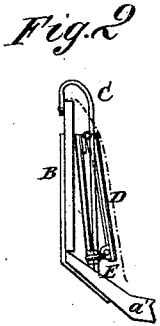
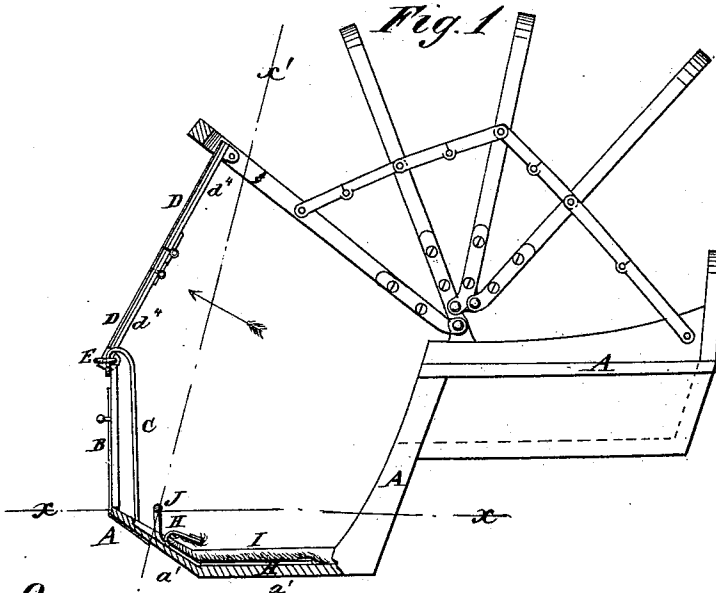


E. MARSH.
CARRIAGE-TOP.

No. 175,363.

Patented March 28, 1876.



WITNESSES:

A. W. Mangorist
Alex. F. Roberts

INVENTOR:

E. Marsh

BY

mmmm
ATTORNEYS.

UNITED STATES PATENT OFFICE

EZRA MARSH, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN CARRIAGE-TOPS.

Specification forming part of Letters Patent No. **175,363**, dated March 28, 1876; application filed December 4, 1875.

To all whom it may concern:

Be it known that I, EZRA MARSH, of Newark, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in Carriages, of which the following is a specification:

Figure 1 is a side view, partly in section, of a part of a carriage to which my improvement has been applied. Fig. 2 is a detail end view of the shield, shown as folded against the dash. Fig. 3 is a horizontal section taken through the line *x x*, Fig. 1. Fig. 4 is a detail section of the same taken through the line *x' x'*, Fig. 1. Fig. 5 is a detail section taken through the line *y y*, Fig. 4. Fig. 6 is a detail edge view of a lower corner of the shield, showing the swiveled eye.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish carriages so constructed that they may be easily and quickly adjusted as open or closed carriages, without materially increasing the cost of manufacture.

The invention consists in the combination of the swiveled eyes and the bent rods with the dash, the carriage-body, and the shield, and in the combination of the bent frame and its rug, with the floor of the carriage-body, as hereinafter fully described.

A represents the body of a carriage, the forward part of the floor *a'* of which may incline upward slightly in the usual way. B is the dash, to the upper corners of which are attached the ends of the short arms of the U-rods C. The long arms of the U-rods C extend down in the rear of, and parallel with, the ends of the dash B, and their lower ends are secured to the frame of the carriage-body A.

D is the shield, which is made in two parts, plates, or frames, hinged to each other at their adjacent edges. To the lower corners of the lower part of the shield D are swiveled eyes E, through which the U-rods C pass.

The upper edge of the upper part of the shield D is secured to the forward edge of the top, hood or roof of a carriage, and is secured detachably beneath said edge by buttons or other convenient fastenings. In the parts of the shield D, or in frames *d'* set into

said parts are placed glass-plates *d''* to enable the driver, and others riding in the carriage to see out in front.

In the lower part of the shield D, just below the frame *d'* is formed a hole, *d'''*, for the passage of the reins. The frame *d'*, above the rein-hole *d'''*, is hinged at its upper edge, so that it may be turned up inward and secured by a spring-catch or other convenient fastening, when desired to give more space for the reins should it be necessary in controlling the horse. When in use the lower edge of the lower part of the shield D overlaps the upper edge of the dash B, and the swiveled eyes E rest upon the short arm of the U-rods C. When not required for use the upper part of the shield is folded down upon the lower part, and the folded shield is raised, moved inward, and lowered along the inner side of the dash B, the swiveled eyes E passing over the bends of the U-rods C, and sliding down the long arms of said rods C. The folded shield D is secured in place against the dash B, by the ordinary flap that covers and protects the ordinary apron. This flap is not shown in the drawing. In the end edges of the shield D is formed a groove, *d''''*, to receive a thin metal bar, E, secured to the edge of the curtain G, and locked in said groove by buttons, thumb-screws, or other convenient fastenings.

The side edges of the curtain G are secured by knobs in the usual way. H is a light frame fitted and secured to the floor *a'* of the carriage-body A. The forward part of the frame H is bent over into U form, as shown in Fig. 1, and to said frame is attached a fur, wool, or other rug, I, the turned-over part of which serves as a pocket to receive the forward part of the feet and keep them warm.

The part of the skin exposed to view by the turning over of its forward part should be covered or lined with cloth. The forward or bent part of the frame H is placed just in the rear of the ordinary toe-bar J, and is made light and elastic, so that it may be pressed down by the feet when using the toe-bar J, and may recover its former position as soon as the pressure of the feet may be removed.

Having thus described my invention, I claim

as new and desire to secure by Letters Patent—

1. The frame H, arranged on floor α' and curved in front, as and for the purpose set forth.

2. The shield D, connected with rods C by swiveled eyes E, to enable the glass section

to make a different angle with dash, according to the relative position of dash and top, as and for the purpose specified.

EZRA MARSH.

Witnesses:

JAMES T. GRAHAM,
T. B. MOSHER.