No. 727,844. PATENTED MAY 12, 1903.

J. J. RUSSELL.

STORM SHIELD ATTACHMENT FOR VEHICLES.

APPLICATION FILED MAR. 16, 1903.

NO MODEL.

Fig. 1.

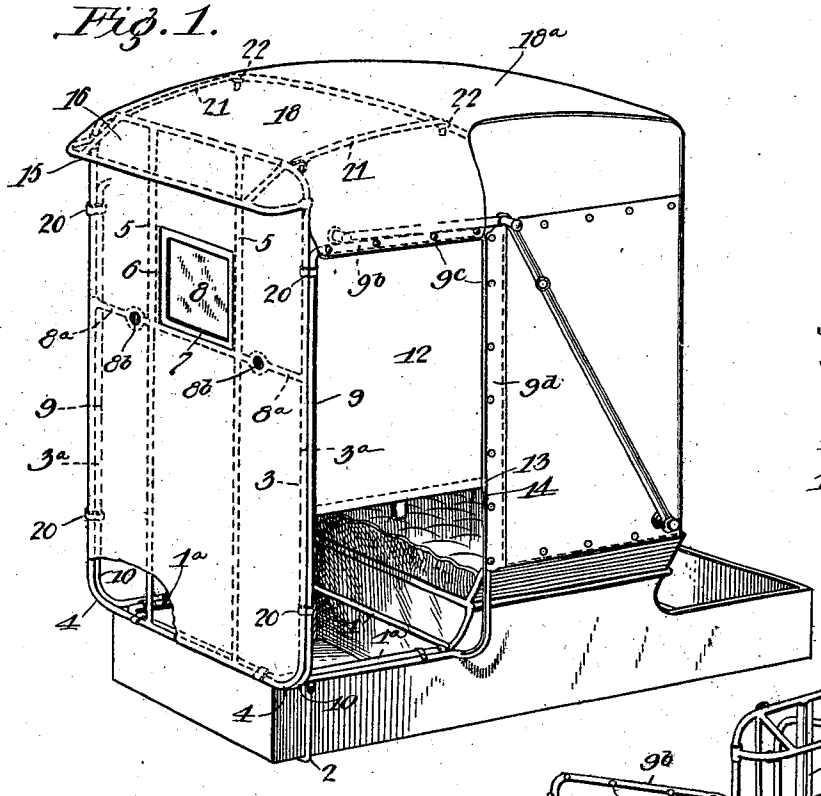




Fig. 3.

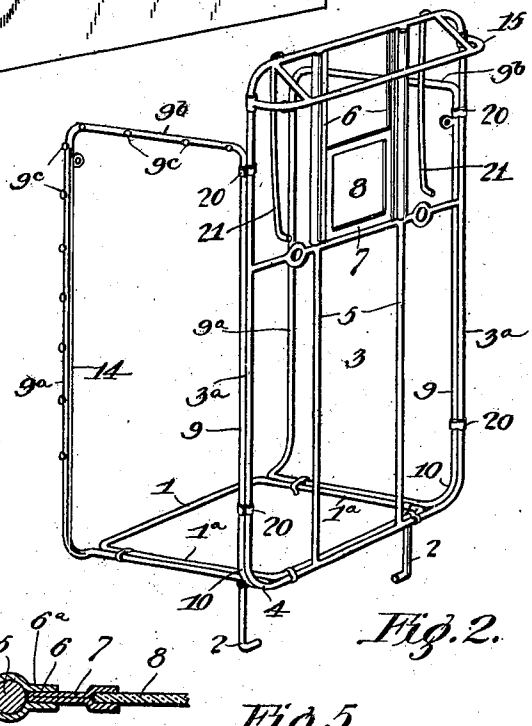


Fig. 2.

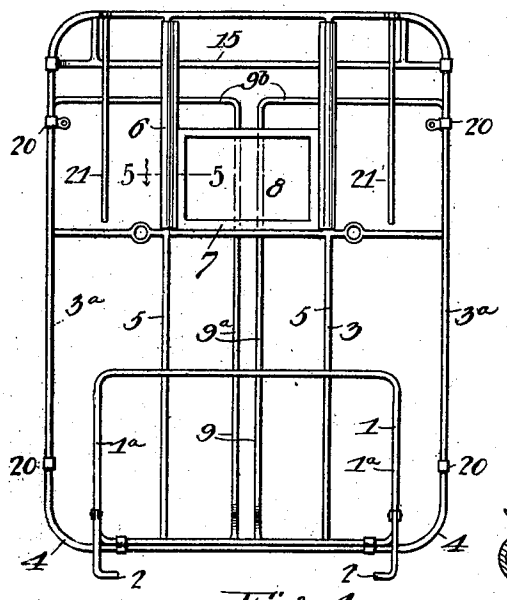


Fig. 4.

Fig. 5.

Witnesses

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No. 727,844. Patented May 12, 1903.

UNITED STATES PATENT OFFICE.

JOHN J. RUSSELL, OF DEEPWATER, MISSOURI.

STORM-SHIELD ATTACHMENT FOR VEHICLES.

SPECIFICATION forming part of Letters Patent No. 727,844, dated May 12, 1903.

Application filed March 16, 1903. Serial No. 148,094. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. RUSSELL, a citizen of the United States, residing at Deepwater, in the county of Henry and State of Missouri, have invented a new and useful Storm-Shield Attachment for Vehicles, of which the following is a specification.

This invention relates to shorm-shield attachments for vehicles; and it is an improvement on the device for which Letters Patent of the United States No. 712,970 were granted to myself on the 4th day of November, 1902. The device patented to myself, as above set forth, comprised a base-frame having hooked arms, whereby it might be temporarily attached to a buggy-box, and front and side frames rising from said base-frame, to which a front shield, side curtains, and a top covering or hood were secured.

By means of the present invention I propose to construct a similar frame, but in several parts, which shall be capable of being folded together, so as to occupy little space when not in use, and which may also be more conveniently attached in operative position or dismounted when not in use.

A further object of my invention is to provide the front frame of the device with a slidable sash mounted adjustably between two uprights or supports connecting the upper and lower sides of the front frame.

A further object of my invention is to provide improved attaching means whereby the device may be adjustably connected with and supported by an ordinary top-buggy or similar vehicle.

With these and other objects in view my invention consists in the improved construction, arrangement, and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view showing my improved storm-shield attachment applied to a buggy of ordinary construction. Fig. 2 is a perspective view of the framework detached. Fig. 3 is a side view showing the attachment removed from the buggy and folded. Fig. 4 is a rear elevation showing the attachment folded. Fig. 5 is a detail sectional elevation taken on the line 5 5, Fig. 4.

Corresponding parts in the several figures are indicated by similar numerals of reference.

The base-frame 1 of my improved attachment is provided at its front corners with downwardly-extending hinged hook members 2, adapted to catch under the bottom of the box or top of the buggy or vehicle to which my improved device is to be attached.

Hingedly connected with the front side of the rectangular frame 1 is an approximately rectangular front frame 3, the curtains of which are preferably rounded, as at 4. This front frame is provided with vertical posts or uprights 5 5, connecting its upper and lower sides and provided in their opposing faces with grooves 6 for the accommodation of a vertically-slidable sash 7, having a glass panel 8. It is not essential that these grooves be formed directly in the rods which constitute the posts or uprights 5. They may, if desired, be in the nature of strips of sheet metal or other suitable material, clamped or otherwise secured upon the rods 5 and provided with outwardly-extending flanges 6^a, between which the grooves for the accommodation of the sash are formed. This construction has been illustrated in the accompanying drawings, especially in the detail view Fig. 5. The frame 3 is also provided with a transverse cross-bar 8^a, having supporting-loops 8^b for the passage of the reins.

The side bars 3^a of the front frame 3 are hingedly connected with the side frames 9, which are approximately rectangular in shape, their lower ends being curved inwardly, as shown at 10, so as to meet the side bars 1^a of the base-frame 1, the latter frame being connected hingedly with the lower side of the front frame between the curved corners of the latter. The parts are obviously to be so proportioned and connected as to permit the side frames to be folded against and upon the front frame, as will be understood by reference to Figs. 3 and 4 of the drawings.

Suitable fastening means, as 20, are to be employed for connecting the hinged frames

securely in operative position with relation to each other.

The outer or free side bars 9^a and the top bars 9^b of the hinged side frames are provided with buttons 9^c, whereby they may be connected with light facings 9^d, appropriately secured to the side and top covering of the buggy, as will be readily seen by reference to Fig. 1. These facings serve in connection with the depending hooks at the front corners of the box to support the device in operative position upon the buggy or vehicle in connection with which it is used. At the upper sides of the side frames 9 are also mounted spring-operated roller-curtains 12, having bottom sticks 13, which engage grooves 14 in the inner sides of the upright side pieces of the side frames 9. These grooves extend to the extreme lower ends of said side bars and the curtains will thus, when lowered, be drawn in closely to the upper edges of the buggy sides.

The top of the front frame 3 is provided with an auxiliary forwardly-extending frame 15, which supports a hood 16, whereby rain may be diverted and prevented from entering the window when the sash is left open. The said front frame is also provided at its upper corners with hinged hook members 21, adapted to engage suitably-disposed eyes 22 in the top bar of the buggy-bow. These hook members when thus engaged, as will be seen in dotted lines in Fig. 1, serve to support the hood or covering which is supported by my improved attachment.

The frame which constitutes my invention is to be employed in a general way as a support for the roller-supported curtains 12, the front curtain 16, and the top piece or hood 18, which are employed as auxiliaries to the top of the buggy or vehicle in connection with which my invention is used, as will be clearly understood by reference to Fig. 1 of the drawings. As will be seen by reference to said figure, the top-hood 18 is extended rearwardly to the rear edge of the buggy-top, as will be seen at 18^a, for the purpose of preventing water from entering between the joints of said hood and buggy-top.

The operation of this invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. The device may be readily fitted to the box of the buggy or vehicle by simply engaging the hook members 2 with the under side of the buggy-box, the base-frame 1 being supported upon the edges of said box in front of the seat, where it will not be in the way. The side frames are then folded and connected with the facing 9^d, whereby the entire device is neatly and securely supported. The curtain 16 is permanently attached to the front frame, but the hood 18 is separate and when finally placed in position completes the device, said hood being supported by means of the hooks or braces 21. The general construction and arrangement of parts as herein described makes a neat and presentable appearance, and the several parts will mutually brace and support each other, forming a stiff and rigid support, affording complete protection to the persons seated in the vehicle. Access to the interior and exit therefrom may be had by simply raising the side curtains. The framework when detached may be readily folded, so as to occupy but little space, which is obviously convenient and advantageous either for storage or for shipping purposes. The auxiliary frame extending from the top of the front frame, which is in practice covered by the front portion of the hood 18, affords protecting means whereby the rain will be prevented from entering through the sash-opening when the sash is temporarily lowered.

Having thus described my invention, I claim—

1. In a device of the class described, a base-frame having attaching means, a front frame hingedly connected with said base-frame, and side frames hingedly connected with the said front frame.

2. In a device of the class described, a base-frame, a front frame hingedly connected with said base-frame and having rounded corners extending beyond the ends of the latter, side frames hingedly connected with said front frame and having inturned lower ends, the side pieces of said frames being grooved in their inner sides, and roller-curtains mounted upon said side frames and having bottom slats engaging the side grooves of said frames.

3. In a device of the class described, a base-frame, a front frame hingedly connected with said base-frame, uprights connecting the upper and lower sides of said front frame, a sash vertically movable between said uprights, and a cross-bar having loops for the passage of the reins.

4. A storm-shield for vehicles, comprising a plurality of hingedly-connected frames, viz., a base-frame, a front frame, and two side frames, said front frame being provided with an auxiliary supporting-frame for a forwardly-extending hood, and said side frames being provided with grooved sides having inturned lower ends, roller-curtains mounted at the upper ends of said side frames and sticks at the lower edges of said roller-frames engaging the grooves in the side frames.

5. In a device of the class described, the combination of a base-frame having hinged hook members at its front corners, a front frame hingedly connected with said base-frame, hook members at the upper corners of said front frame adapted to engage supporting loops or eyes, and a top hood connected with the top of said front frame, supported by said hook members and having a rearward extension.

6. In a device of the class described, a base-frame having supporting-hooks at its front

corners, a front frame hingedly connected with said base-frame, side frames hingedly connected with the front frame and having buttons secured to their top bars and to the side bars at their free ends, and suitably-disposed facings having eyelets engaging said buttons.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOHN J. RUSSELL.

Witnesses:
HENRY HEARN,
E. M. GOODWIN.