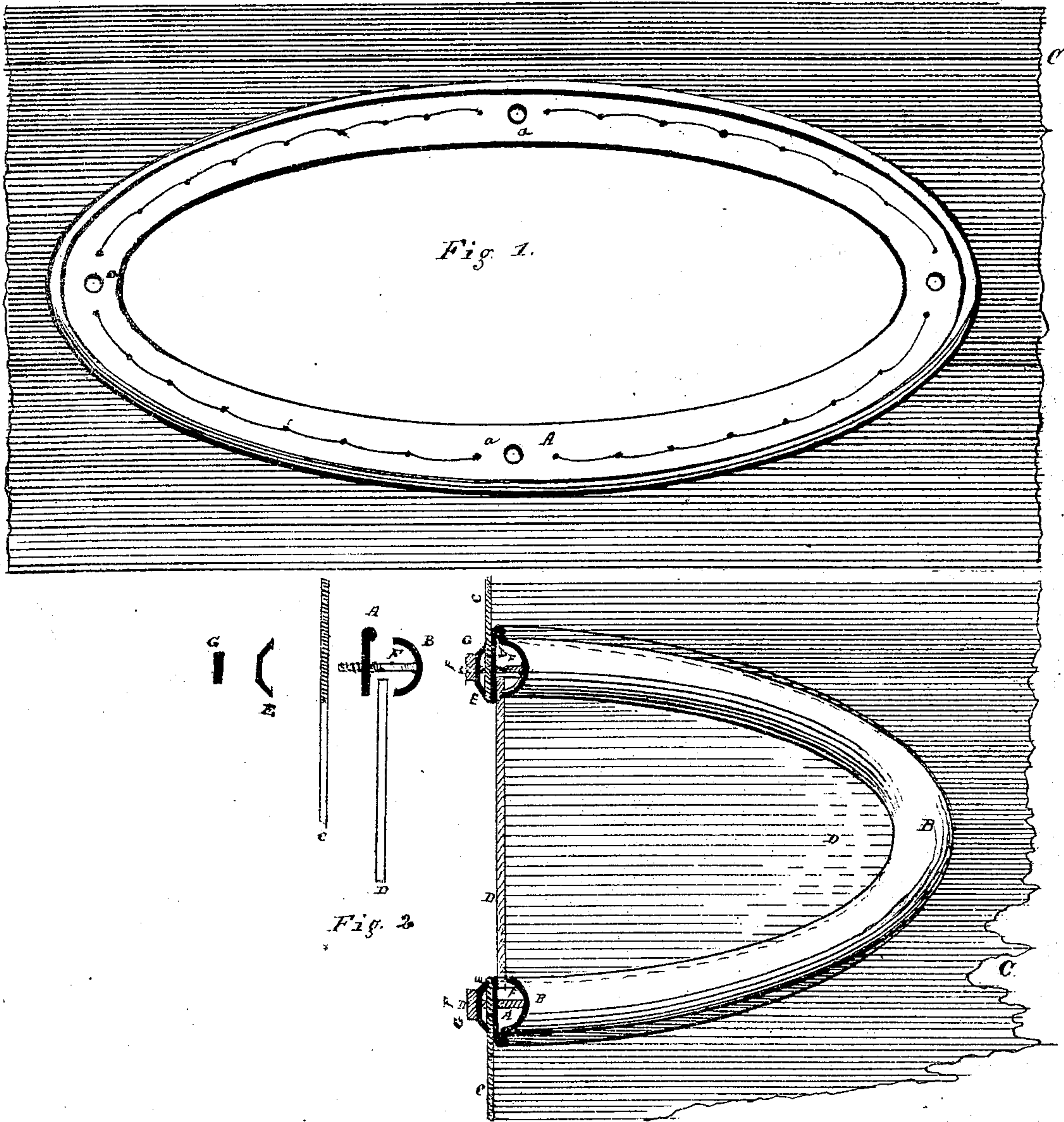


WASHINGTON H. RHODES.

Improvement in Frames for the Glasses of Carriage Curtains.

No. 119,722.

Patented Oct. 10, 1871.



Witnesses.

Wm. B. Miller.
Jacob Stoffer.

inventor.

W. H. Rhodes

UNITED STATES PATENT OFFICE.

WASHINGTON H. RHODES, OF LANCASTER, PENNSYLVANIA.

IMPROVEMENT IN FRAMES FOR THE GLASSES OF CARRIAGE-CURTAINS.

Specification forming part of Letters Patent No. 119,722, dated October 10, 1871.

To all whom it may concern:

Be it known that I, WASHINGTON H. RHODES, of Lancaster, in the county of Lancaster and State of Pennsylvania, have invented a certain Improvement in Affixing Frames to Carriage-Curtains.

This invention consists in providing a means to prevent the frames for glass attached to the curtains of vehicles from cutting out the cloth or leather, as is the case in the manner heretofore employed. A permanent attachment is made by introducing an intermediate metallic-frame support in combination with the ordinary frame pieces used.

Figure 1 shows my improved or intermediate plate with a raised bead around the outer circumference and perforated for the reception of the screw-bolts, and also a series of perforations for being attached to the curtain by a thread and needle to keep it in place. Fig. 2 shows a half view and vertical section of the parts combined and detached.

The ordinary outer frame B usually sets direct upon the cloth or curtain C with the pattern cut out of the curtain. To this raised frame screw-bolts at regular points are attached. These are passed through the curtain, leaving but a narrow margin on the inner side of the part cut out, so as not to cover the glass D held under the inner edge of the outer frame B. A counter-plate or frame, E, is then put on the inside of the curtain, over the fixed screw-bolts F on the outer plate B, and firmly held by nut G. These two frames B E clamp the cloth and glass between them, and is the manner of attaching glass and frames to curtains on vehicles in universal use. The trifling margin in the cloth, the constant shaking when the vehicle is in motion, in a short time either cuts out the entire portion of the curtain clamped, or the holes tear out and thus

loosen the frames, and cause an unsightly side light or leave simply a hole in the curtain.

To remedy this defect I have a metallic plate, A, struck of the desired shape and size, with a raised margin for the outer frame B to set in. This inner flat surface is the full width of the outer or covering frame B, and is perforated at the proper points to match the position of the screw-bolts, (shown at *a*.) There is also a series of punctures by which this plate or frame A is sewed to the curtain C, as shown by Fig. 1. The other parts B, F, E, C, and G, are the same as in common use, neither of which I claim as my invention; but I am not aware that, in combination with the ordinary frame and counterpart, an intermediate plate was ever before used connected with the curtain by sewing on, as shown. The raised edge on A prevents lateral friction or motion of the metallic face for the support of the edges of B, and when this foundation is itself firmly attached it offers such a security and durability to curtain-frames as to pay the trifling additional cost fourfold; and, simple as it is, the utility and economy by the use of this intermediate plate or frame are self-evident, and superior to simple washers, loosely clamped between the frames, which, when placed intermediate, are found equally objectionable; but a fixed plate or frame, A, is of the greatest utility.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combined arrangement of a fixed foundation-plate or frame, A, on curtains of vehicles, when intermediate between the ordinary frame and glass B D, and counterpart E secured by the nut and screw-bolt G F, substantially as shown, for the purpose specified.

Witnesses:

W. H. RHODES.

W. B. WILEY,

JACOB STAUFFER.

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