

No. 745,613.

PATENTED DEC. 1, 1903.

A. C. HOLDEN.  
STORM APRON.

APPLICATION FILED SEPT. 16, 1903.

NO MODEL.

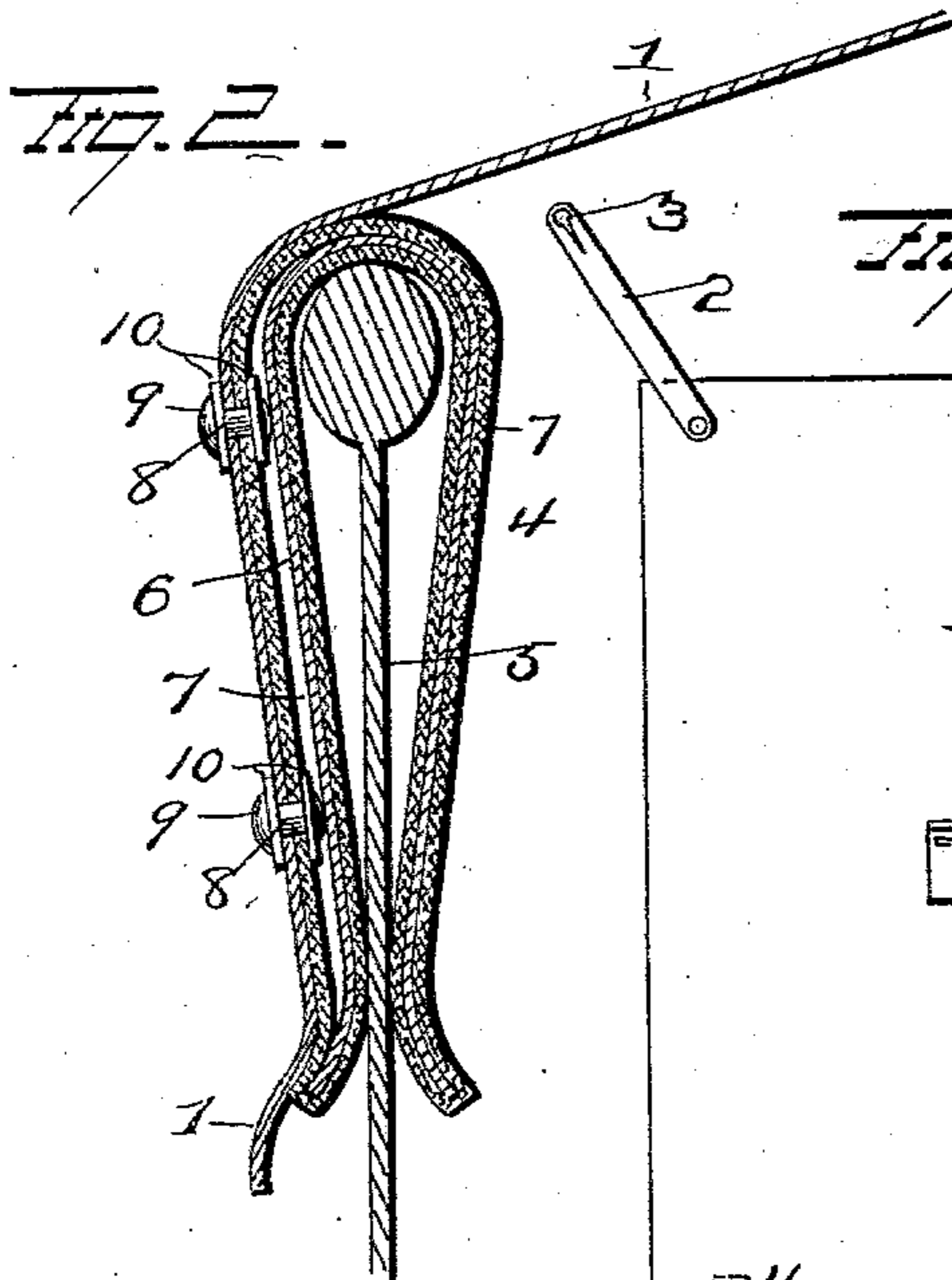
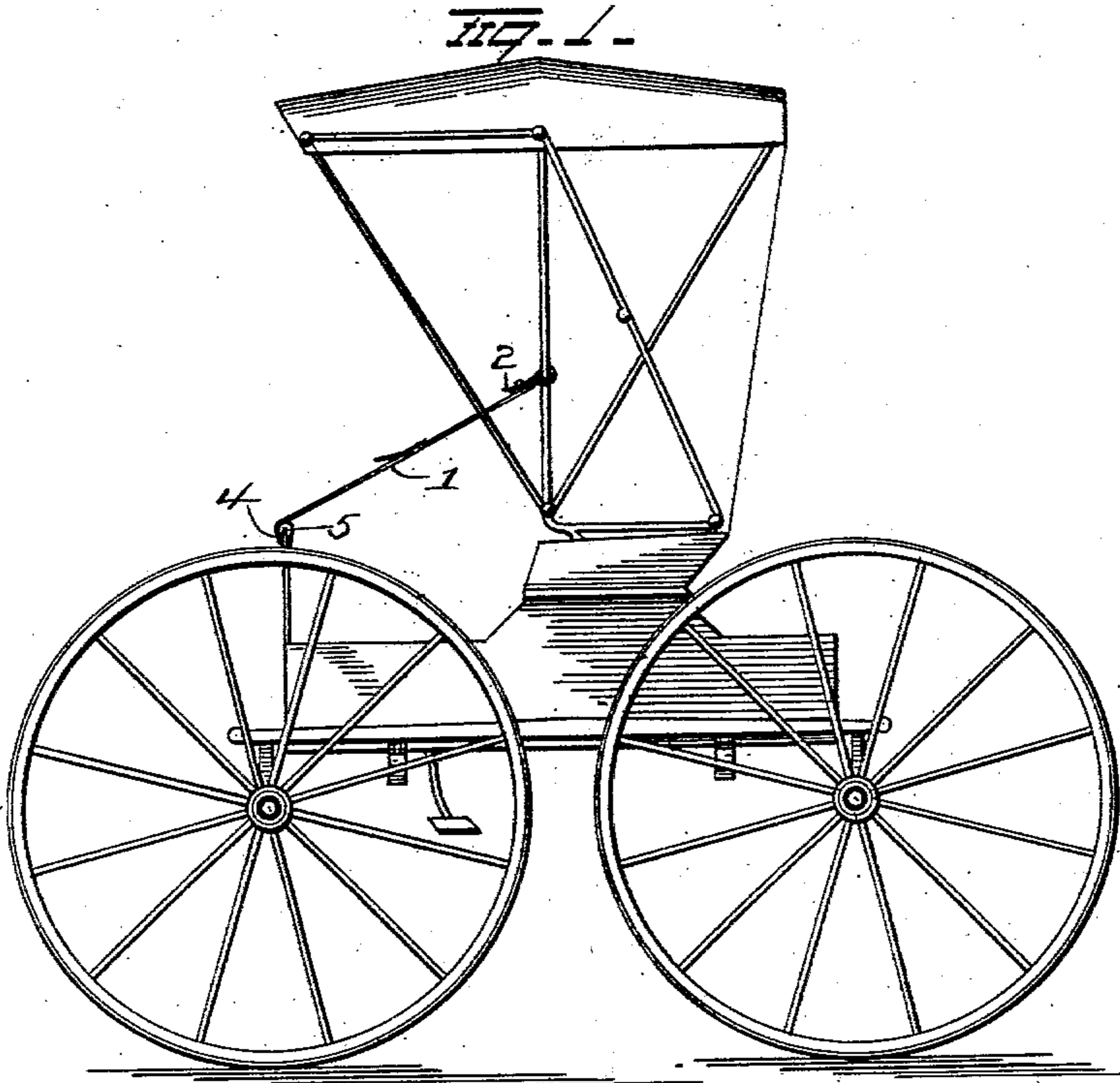
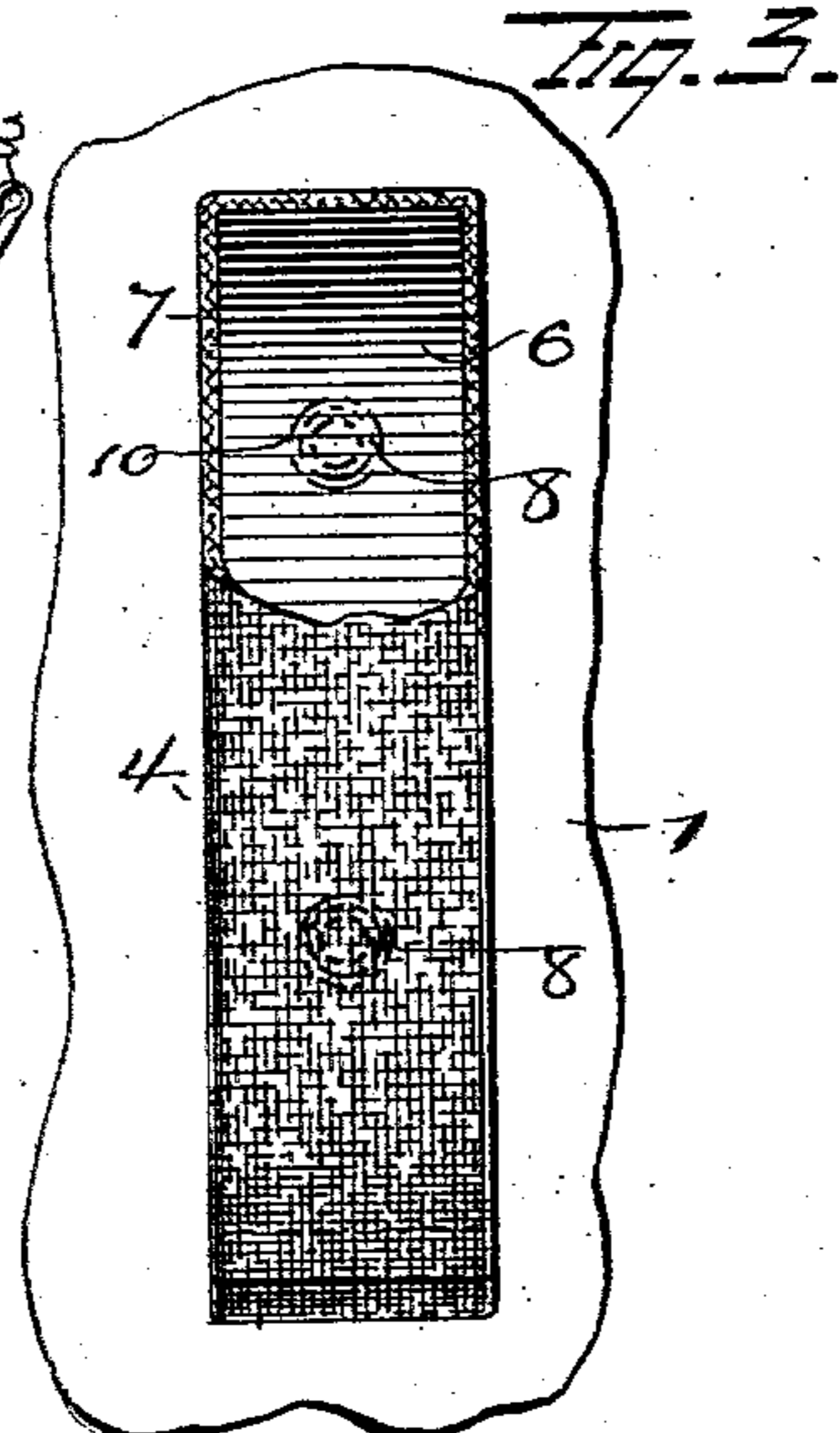
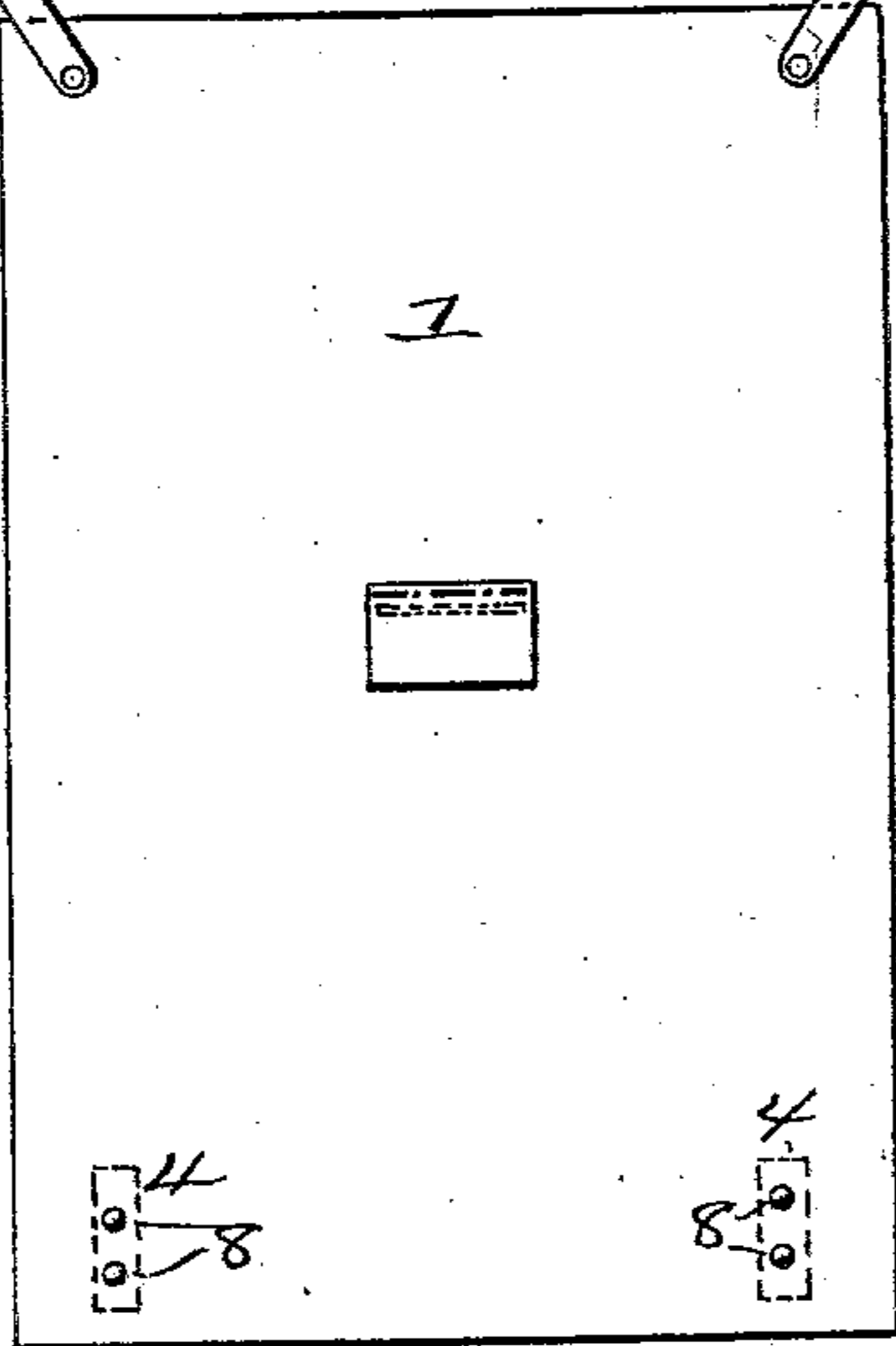


Fig. 4.



WITNESSES  
E. J. Nottingham  
G. J. Downing

INVENTOR  
A. C. Holden  
By H. A. Seymour  
Attorney

# UNITED STATES PATENT OFFICE.

AARON C. HOLDEN, OF PITTSTON, PENNSYLVANIA.

## STORM-APRON.

SPECIFICATION forming part of Letters Patent No. 745,613, dated December 1, 1903.

Application filed September 16, 1903. Serial No. 173,441. (No model.)

*To all whom it may concern:*

Be it known that I, AARON C. HOLDEN, a resident of Pittston, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Storm-Aprons; 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.

My invention relates to improvements in storm-aprons, the object of the invention being to provide simple and efficient means by which the lower portion of the apron can be quickly and effectually applied to the dashboard of a carriage or wagon.

A further object is to provide a simple clamp for a storm-apron and to so attach it to the apron that it will not be weakened by holes, thus permitting the use of light metal, and so that when applied to the dashboard the latter will not be marred.

A further object is to provide means for attaching a storm-apron to the dashboard of a carriage or wagon which shall be cheap to manufacture, which shall hold the apron in such position as to effectually shed water, and which shall be efficient in all respects in the performance of its functions.

With these objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as hereinafter set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view illustrating the application of my invention. Fig. 2 is an enlarged sectional view of the fastening device. Fig. 3 is a detail view. Fig. 4 is a face view of the apron.

1 represents a storm-apron which may be made of any suitable waterproof material and is provided at its upper end with straps 2, having buttonholes 3 near their free ends for the reception of buttons on the carriage or wagon. Two or more clamps 4 are secured to the under face of the apron near its lower edge and are adapted to fit over the dashboard 5 of the carriage or wagon. The construction of all of these clamps is the same,

and a detail description of one will therefore suffice for all. Each clamp comprises a comparative light U-shaped spring 6 and a pocket 7, of heavy canvas or similar material, inclosing said spring. The pocket 7 is made tubular in form, and this pocket, with its ends open, is secured to the under face of the apron, near the lower edge of the latter, by means of two or more rivets 8. Each of these rivets passes through one thickness of the pocket and through the material of the apron, the end of the rivet which appears on the outer or upper face of the apron being provided with a head 9, and the end of the rivet within the pocket is upset. Between the upset end of the rivet and the pocket and between the head of the rivet and the apron disks or washers 10 may be inserted to avoid all possibility of the rivets being pulled from the pocket or apron. When the pocket has thus been securely fastened to the apron, the U-shaped spring 6 is inserted therein, after which the ends of the pocket will be closed by stitching or in any other desired manner. With the clamp thus secured to the apron there will be no danger whatever of the clamp being pulled off or of its working loose, as is liable to occur were the pocket secured to the apron by stitching. The pocket will prevent the spring from marring the dashboard, and by the use of the pocket as a means for securing the spring to the apron perforating the spring for the passage of rivets is avoided, and I am therefore enabled to use light metal for the spring.

Slight changes might be made in the details of construction without departing from the spirit thereof or limiting its scope, and hence I do not wish to limit myself to the precise details herein set forth.

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

1. The combination with a storm-apron, of a pocket, a spring-clamp inclosed within said pocket and rivets passing through the apron and one wall of the pocket only.

2. The combination with a storm-apron, of a tubular pocket riveted to the apron, and a

sheet-metal spring-clamp inclosed within said tubular pocket.

3. The combination with a storm-apron, of a tubular pocket located near the edge thereof, a rivet passing through the apron and through one side of the pocket and a U-shaped spring inclosed loosely within said pocket.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

AARON C. HOLDEN.

Witnesses:

R. S. FERGUSON,  
E. I. NOTTINGHAM.