

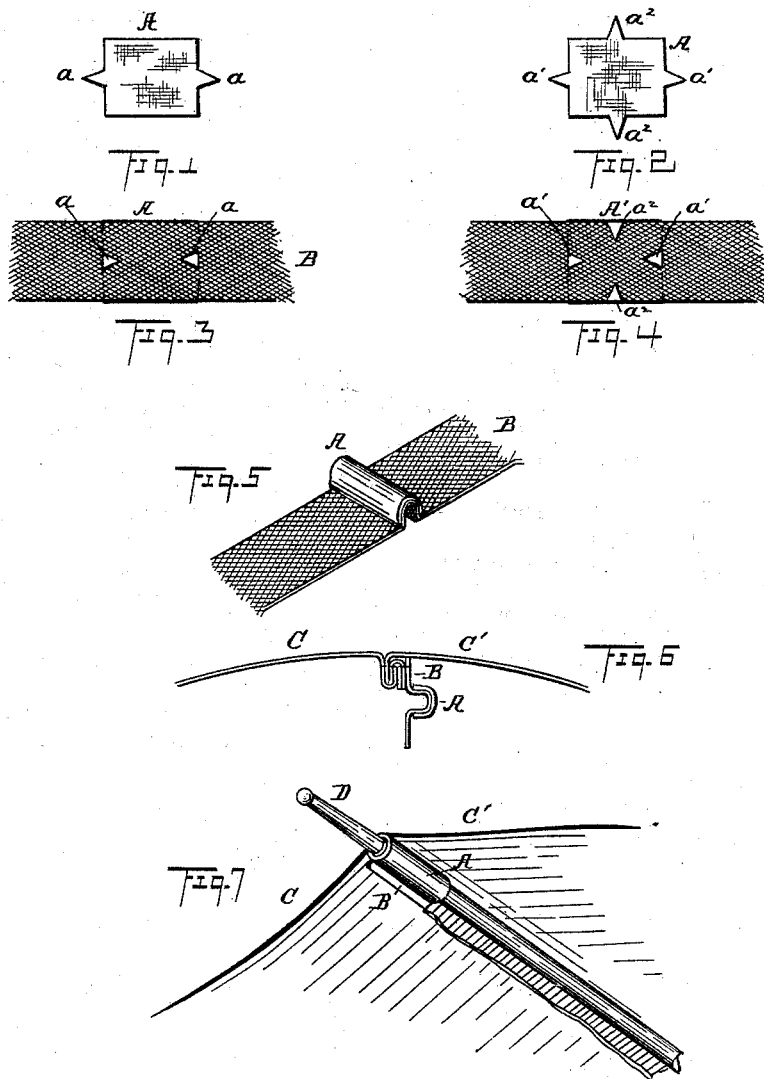
(No Model.)

A. A. ARMSTRONG.

DEVICE FOR ATTACHING UMBRELLA TOPS TO BOWS.

No. 422,688.

Patented Mar. 4, 1890.



Witnesses.

Bellevue, Iowa.
C. E. Humphrey.

Inventor

Allen A. Armstrong,
by C. E. Humphrey

Attorneys.

UNITED STATES PATENT OFFICE.

ALLEN A. ARMSTRONG, OF KENT, OHIO.

DEVICE FOR ATTACHING UMBRELLA-TOPS TO BOWS.

SPECIFICATION forming part of Letters Patent No. 422,688, dated March 4, 1890.

Application filed October 15, 1889. Serial No. 327,120. (No model.)

To all whom it may concern:

Be it known that I, ALLEN A. ARMSTRONG, a citizen of the United States, residing at Kent, in the county of Portage and State of Ohio, have invented certain new and useful Improvements in Devices for Attaching Umbrella-Tops to Bows, of which the following is a specification.

The object of my invention is to provide a secure and simple device for uniting the umbrella-top with the bows or frame which shall be readily applied and securely connect the parts.

My invention consists in the peculiar and novel construction and combination of parts hereinafter described, and then specifically pointed out in the claims, reference being had to the accompanying drawings, forming a part of this specification.

In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 is one form of the metallic clamp; Fig. 2, a modified form of the same; Fig. 3, a piece of tape with the clamp shown in Fig. 1 attached; Fig. 4, a similar piece of tape with the clamp shown in Fig. 2; Fig. 5, a perspective of the tape and clamp, the latter partially curved; Fig. 6, a section of part of umbrella-top seam enlarged, showing the manner of attaching the fastening; and Fig. 7, a perspective, from below, of a portion of the umbrella top and bow, showing the fastening device.

In the drawings, A is a plate, of malleable sheet metal, preferably a parallelogram, of such size as to form a tube sufficiently large to inclose the umbrella-bow and an interposed strip of tape, and having from two opposite sides projecting points *a*. These points are turned up in the same direction at a right angle with the plate A and forced through and clinched on the opposite side of a short strip of tape B, as shown in Fig. 4. The plate A is then curved into a semicircular form with the tape inside, as shown in Fig. 5, when it is ready to be applied to the umbrella. This

application is made by sewing one end of the tape to one side, or, if preferred, between the layers of the welt or seam of the umbrella-top C C', as shown in Fig. 6. The top is then placed on the umbrella frame or bows and the fastening bent tightly about the bows D, thereby securely connecting the top or cloth and bow, when the loose end of the tape is cut off. It will be understood that these fastenings will be disposed about the inside of the top wherever it is customary to fasten it to the bows by thread, as is customary now. By this arrangement a more secure fastening is produced than the thread in common use, and which will be less liable to decay from frequent wetting and drying, and the bows will not need to be pierced with holes to receive the fastening-thread, as is commonly done now, and will thereby be rendered stronger, of more uniform elasticity, and less liable to break.

To securely retain the tape within the clamp two additional points may be added to the plate, as is shown in Figs. 2 and 4, in which A' is the plate, *a'* *a'* points similar to those shown in Fig. 1, and *a*² *a*² additional points, which are bent over the edges of the tape B'.

Having thus described my invention, what I claim is—

1. In a device for fastening umbrella-tops to the bows, the combination, with a strip of flexible fabric, of a plate of malleable metal united thereto by points integral with said plate, substantially as shown and described.

2. The combination, with an umbrella top and bow, of a strip of flexible fabric attached to said top and wrapped partially around said bow, and a plate of malleable metal clamped tightly about said strip and bow, substantially as shown and described.

In testimony that I claim the above I hereunto set my hand.

ALLEN A. ARMSTRONG.

In presence of—

C. R. SAUNDERS,
J. W. SHIVELY.