

J. Wright, Umbrella.

No 83,581.

Patented Oct 27, 1868.

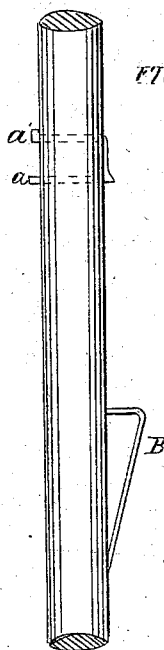
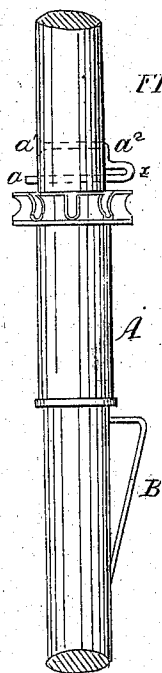


FIG. 3.

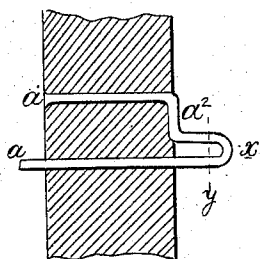


FIG. 4.

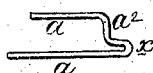


FIG. 5.

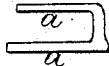


FIG. 6.

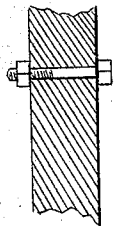


FIG. 7.

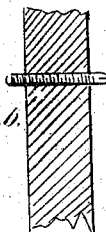
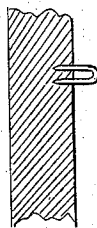


FIG. 8.



Witnesses

Wm. A. Stebbins
L. B. Rice,

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By his Attys
J. H. Houston

United States Patent Office.

JOSEPH WRIGHT, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 83,581, dated October 27, 1868.

IMPROVEMENT IN STOPS FOR UMBRELLA-RUNNERS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, JOSEPH WRIGHT, of Philadelphia, Pennsylvania, have invented an Improved-Stop for Umbrella-Runners; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention consists of a stop for umbrella-runners which is secured to, passes through, and projects from opposite sides of the umbrella-stick, substantially as described hereafter, so as to afford greater security against displacement than the ordinary staple, and so that the runner may have two projections, instead of one only, to bear against.

In order to enable others skilled in the art to make and apply my invention, I will now proceed to describe a mode of constructing and using the same, reference being had to the accompanying drawing which forms a part of this specification, and in which—

Figure 1 is a view of a portion of an umbrella-stick, with the runner, and my improved stop for the same.

Figure 2 shows another form of the stop.

Figure 3 is an enlarged sectional view of a portion of fig. 1.

Figures 4 and 5, views of the stop detached.

Figure 6, a view of an ordinary stop.

Similar letters refer to similar parts throughout the several views.

The stop in common use is an ordinary wire staple, fig. 6, which is driven into one side of an umbrella-stick, to prevent the runner from sliding upon the stick beyond a certain point when the umbrella is opened.

The runner A, to which the frame of the umbrella is attached, and the spring-catch B, against which it bears when the frame is extended, are shown in fig. 1.

But for this stop, the runner, when the umbrella is opened and exposed to sudden gusts of wind, would slide up the stick, and permit the ribs to become still more extended, until forced out of shape, and the covering turned inside out.

Even with the stop, as ordinarily constructed, this accident is of frequent occurrence, for the staple being generally driven but a short distance into the stick, and on one side only of the same, is easily detached by the runner.

Various attempts have been made to remedy this defect, one of which is to add to the number of ribs in the frame of the umbrella, in order to increase its

power of resistance to the wind, and thus diminish the tendency of the runner to slide upwards, and enable the stop to hold it. This plan, however, adds to the weight and price of the umbrella, and has not been generally adopted.

My improved stop is made in the form of a staple, of stout iron wire, and has legs, a a' , of different lengths, and a shoulder, a'' , which bears against and penetrates a short distance into one side of the umbrella-stick, when the ends are driven in. (See figs. 1, 3, and 4.) These ends, however, penetrate entirely through the stick, the longer one projecting beyond it to about the same distance as the bend x , on the opposite side, while the shorter end projects but slightly, and is riveted so as to prevent the staple from being withdrawn. This riveting of the shorter end a' is facilitated by the square shoulder a'' , which is placed upon a block or anvil, and affords an unyielding support during the riveting-process.

A staple thus formed, and secured to the umbrella-stick, cannot be forced out by pressure upon either of its projecting ends, and it forms an effectual stop for the runner, the latter having two unyielding points to bear against, instead of one, as heretofore.

It is sometimes necessary to remove the runner-stop in repairing the umbrella. This may be readily done by severing it on the line y , fig. 3, and then withdrawing the pieces separately.

Although, for simplicity and cheapness, I prefer a stop of iron wire formed as above described, various modifications of my invention will suggest themselves. For instance, a staple can be stamped out of sheet-brass, as seen in figs. 2 and 5, the short end, a' , being in this case bent abruptly at the end, instead of riveted.

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

A stop for umbrella-runners, consisting of a staple, having legs a a' , of different lengths, and a shoulder, a'' , substantially as described.

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

JOSEPH WRIGHT.

Witnesses:

E. H. BAILEY,
HARRY SMITH.