

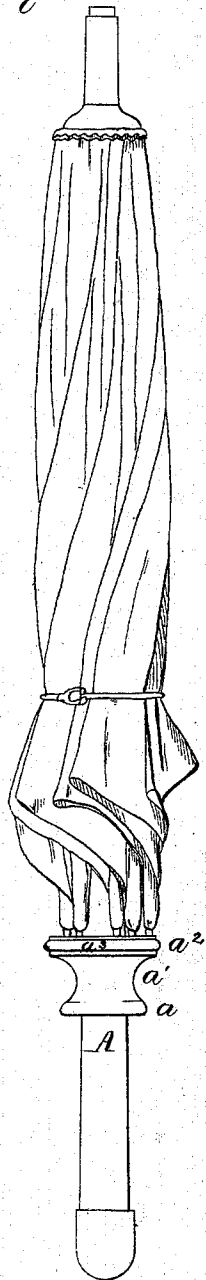
C. C. LUSBY & W. W. WINTER.

Umbrella Tip Retainers.

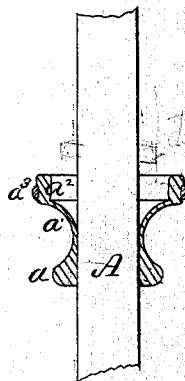
No. 139,405.

Patented May 27, 1873.

*Fig 1*



*Fig. 2*



Witnesses.

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# UNITED STATES PATENT OFFICE.

COMEGYS C. LUSBY AND WILLIAM W. WINTER, OF PHILADELPHIA, PA.

## IMPROVEMENT IN UMBRELLA-TIP RETAINERS.

Specification forming part of Letters Patent No. **139,405**, dated May 27, 1873; application filed March 21, 1873.

*To all whom it may concern:*

Be it known that we, C. C. LUSBY and WILLIAM W. WINTER, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Umbrella and Parasol Tip-Retainer; and we 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification:

Referring to the drawings, Figure 1 is a side view of an umbrella with our improvement attached. Fig. 2 is a central sectional view of our improved tip-retainer.

Our invention consists of a tip-retainer for umbrellas and parasols, and is made wholly or in part of elastic material, as hereinafter described.

Referring to the accompanying drawing, which illustrates our invention, A is an umbrella-handle with a tip-retainer applied. The retainer consists of three parts, which are, however, intended to be formed in one piece, of some elastic material, preferably India rubber. These three parts are respectively designated as the collar, spring-band, and retainer, and are represented at  $a$ ,  $a^1$ , and  $a^2$ .

The object of the collar is to hold the tip-retainer in position on the handle; and to this end it is so constructed that it will bind said handle. In order to give it sufficient strength for this purpose, it is made in the form of a shoulder or roll. The material of which it is composed being flexible and elastic, it will be seen that it can be readily adapted to any ordinary-sized handle, and will yet retain itself firmly in position thereon, without pins or similar means. Another advantage obtained by making the collar of the material suggested is, that a stock of the tip-retainer can be manufactured and sold without preliminary measurement of the handle to which they are applied, the elasticity of the material per-

mitting their ready application to different sizes.

The retainer or part which embraces the tips is shown at  $a^2$ , and is formed, like the collar, of suitable flexible and elastic material, preferably of India rubber.

The advantage of using material of this kind for the retainer is, that it may be readily forced over and withdrawn from the tips; will hold them securely when in position, and yet is not liable to break the tips or draw off the extremities or heads, as a retainer of rigid material is likely to do.

The collar  $a$  and retainer  $a^2$  are connected, as shown, by an elastic band,  $a^1$ .

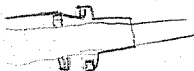
The design of this band is not only to connect the collar and retainer, but also to force the latter in the direction of the tips, at the same time permitting said retainer to be readily withdrawn from the tips without rolling.

As will be observed, the material forming said band, which, like that of the collar and retainer is flexible and elastic, is thinner or slighter than that in said collar and retainer, so that it will readily yield to pressure when it is desired to withdraw the retainer  $a^2$  from the tips, bending or folding about or at the point of junction with the retainer  $a^2$ . It should, however, have sufficient body to force the retainer in the direction of the tips, when the finger-pressure exerted in releasing the tips is withdrawn from the retainer.

The configuration of the collar may, it is obvious, be varied, if desired, and a rigid ring may with advantage be applied, as shown at  $a^3$ , to the retainer. This rigid ring will impart additional strength to the retainer, and the latter may thus be advantageously constructed slighter than would be admissible if the rigid ring were not employed.

What we claim is:

1. The umbrella-tip retainer having the stiff collar  $a$ , thin elastic body  $a^2$ , and spring-band  $a^1$ , constructed substantially as described, and applied to the umbrella or parasol handle in such manner that it may be



sprung back from the tips, but not turned inside out or reversed, substantially as specified.

2. The elastic umbrella or parasol tip-retainer having the metallic band  $a^3$  applied to the outer surface of the spring-band  $a^1$ , substantially as shown and described, and for the purpose specified.

In testimony that we claim the foregoing we have hereunto set our hands this 19th day of March, 1873.

COMEGYS COSDEN LUSBY.  
WILLIAM W. WINTER.

Witnesses:

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