

(No Model.)

J MATZENBACHER.
UMBRELLA.

No. 328,128.

Patented Oct. 13, 1885.

Fig.1.

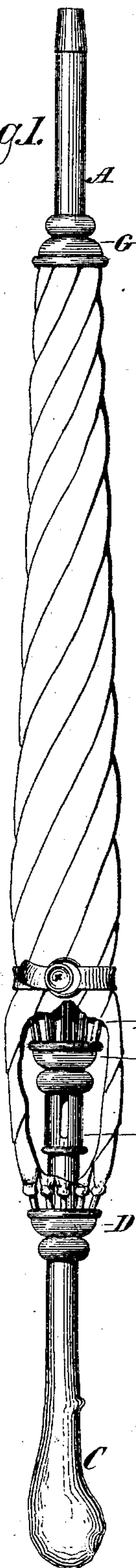


Fig.2.

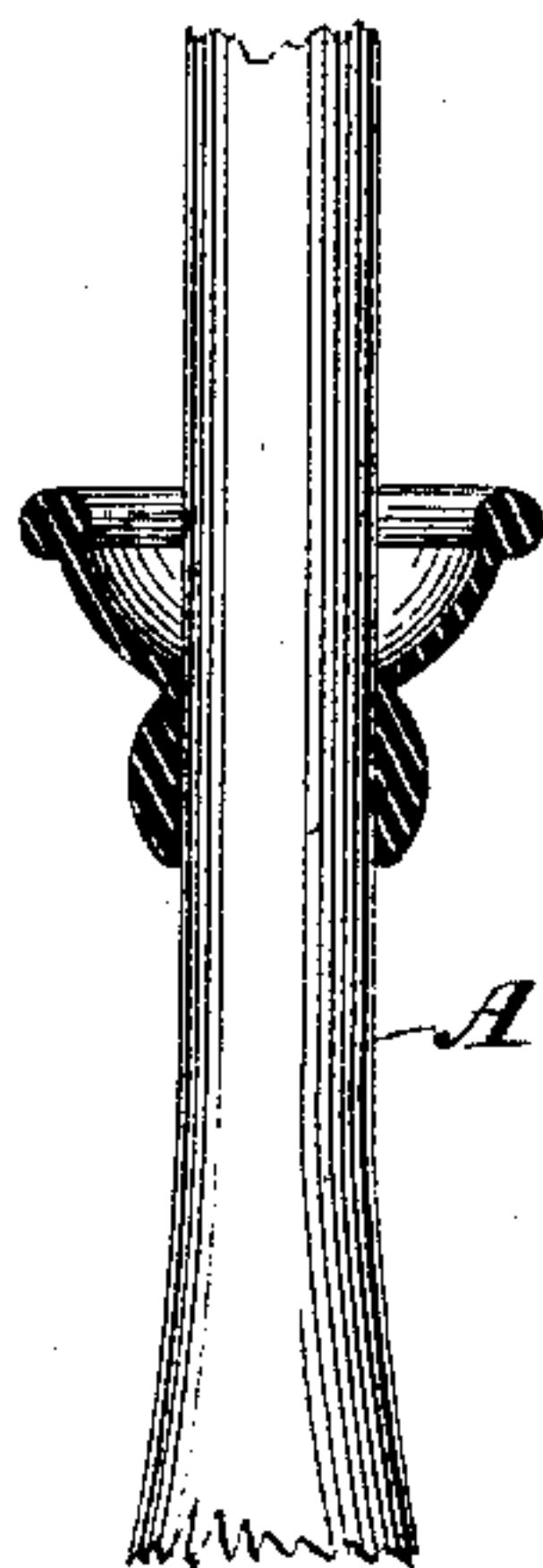


Fig.3.

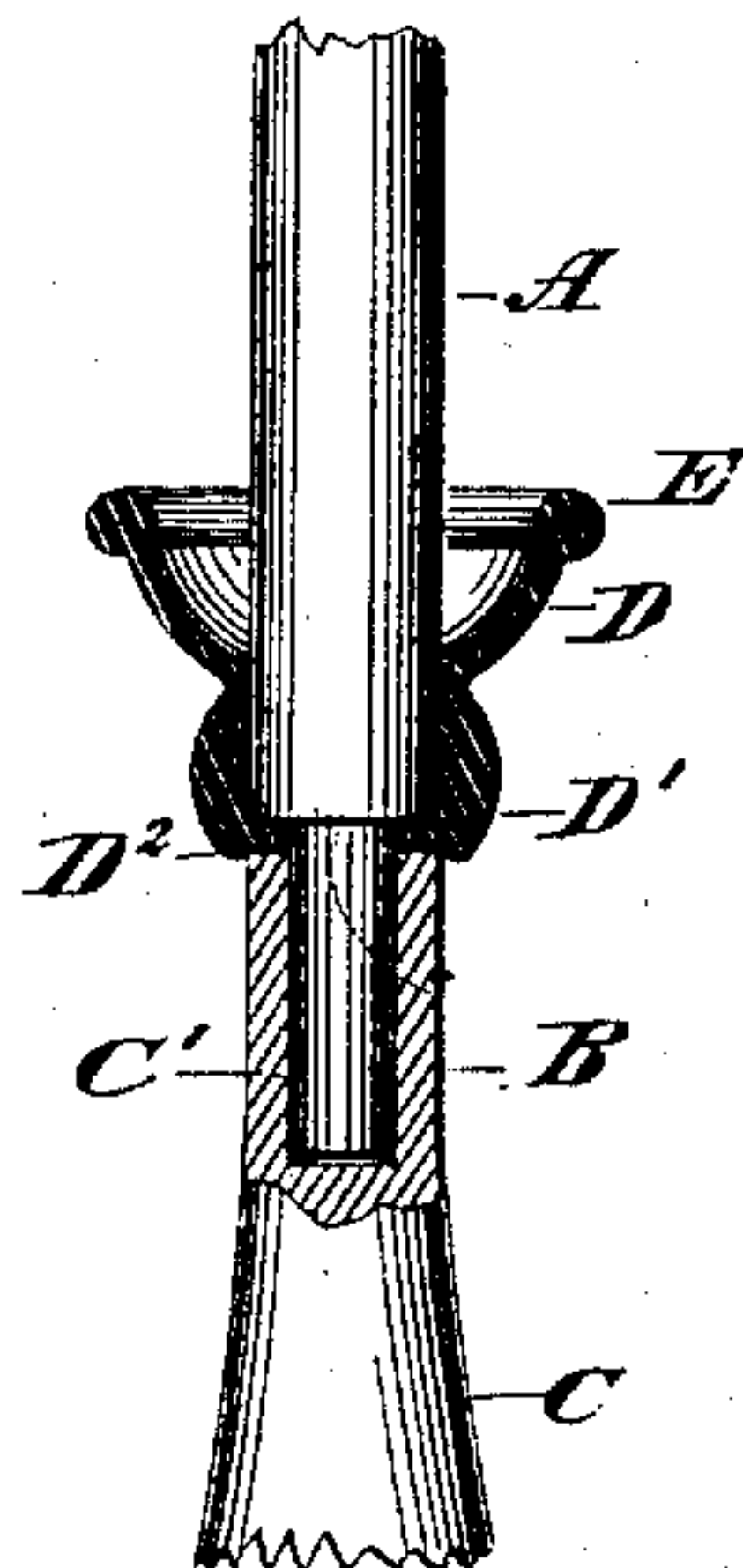


Fig.5.

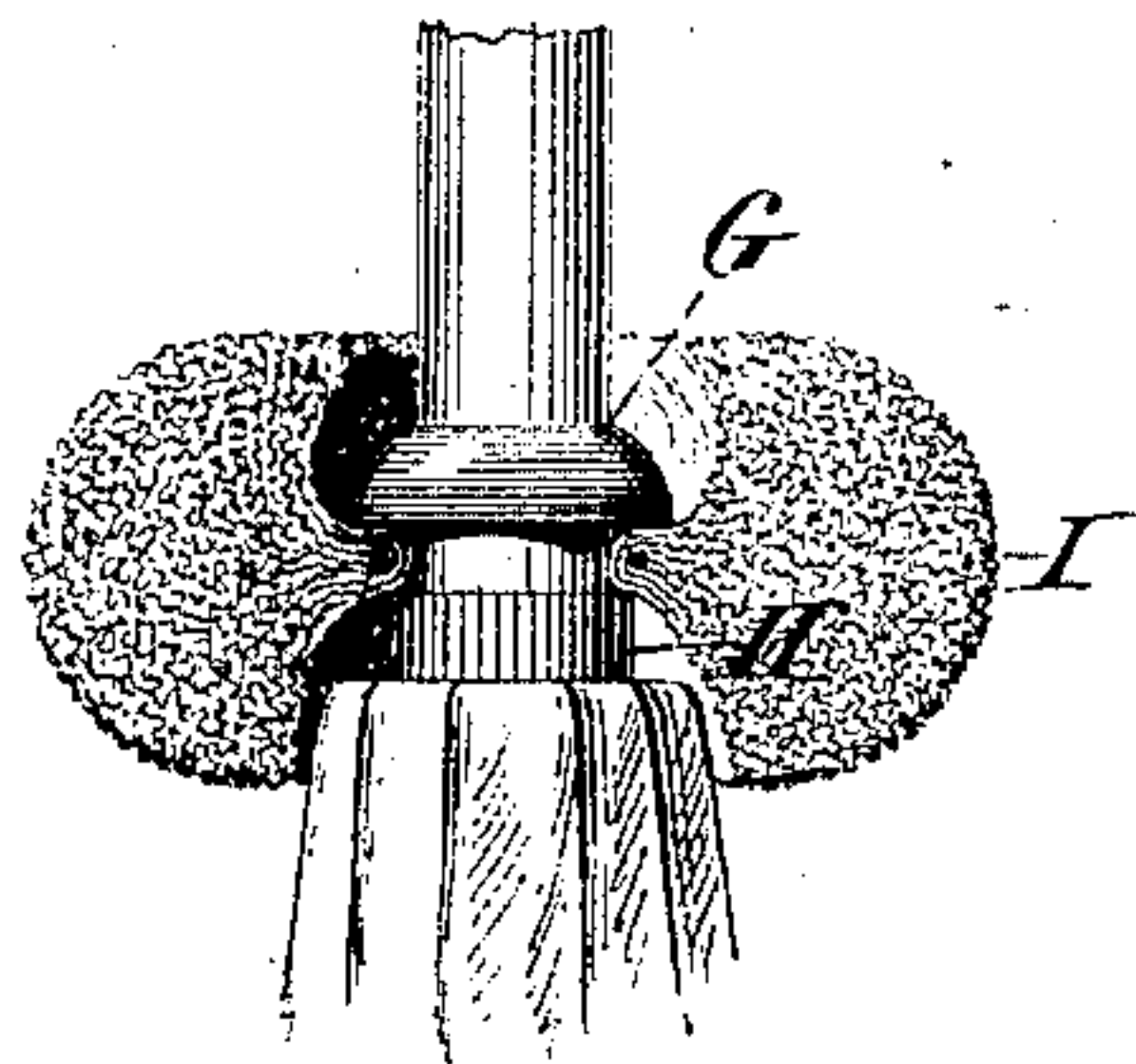
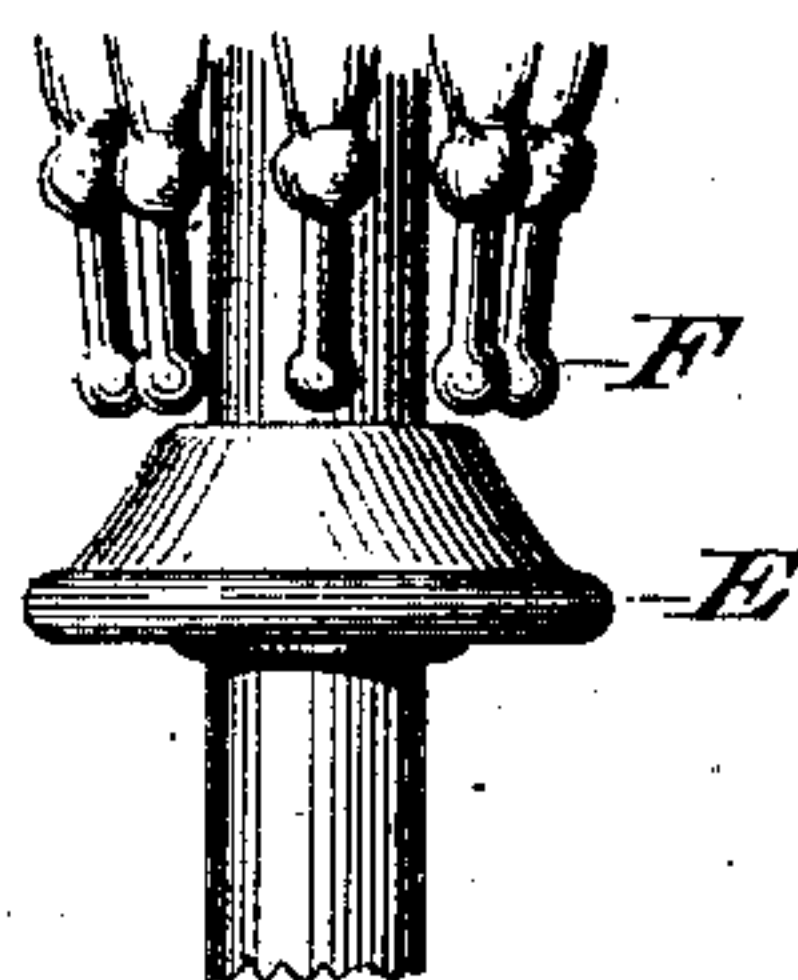


Fig.4.



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UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 328,128, dated October 13, 1885.

Application filed January 19, 1885. Serial No. 153,246. (No model.)

To all whom it may concern:

Be it known that I, JOHN MATZENBACHER, of the city, county, and State of New York, have invented certain new and useful Improvements in Umbrellas, of which the following is a specification.

My invention relates to the "cup" employed for holding the ends of the ribs of an umbrella when the latter is closed, and also to the "cap" arranged on the top of the umbrella over the crown-ring, and, further, to the "puff" located upon the runner and covering the lower ends of the "stretchers;" and it consists of making the cup, cap, or puff of an elastic material, such as rubber.

In the accompanying drawings, which illustrate my invention, similar letters of reference indicate like parts, in which—

Figure 1 is a longitudinal elevation of an umbrella with a part of the covering broken away, so as to show the position of the elastic puff arranged on the runner. Fig. 2 is an elevation of an umbrella stick and a vertical transverse section of the elastic cup. Fig. 3 is a similar view showing a different method of attaching the cup to the umbrella-stick. Fig. 4 is a view showing the stick, lower end of the ribs, with the cup partially inverted. Fig. 5 is a view showing the top of the umbrella-stick, with a section of a ball of fringe arranged over the crown-ring and beneath the elastic cap.

In umbrellas as heretofore made the cup has usually been of metal, arranged upon a plain sleeve or tube, with ridges struck up near each extremity to prevent the cup from sliding off, and secured to its place on the stick by means of a rivet, or by puncturing it with a sharp instrument, so as to form a projection or burr on the inner side, which enters the wood of the stick. Cups made in this manner, and the mode of fastening the sleeve, I have found to be objectionable, as the cup is apt to cut or otherwise injure the ends of the ribs, and the sleeve becomes displaced and slides down upon the handle, in which case it often happens that the cup can no longer be slid along far enough to engage with the ends of the rib. My present invention obviates these difficulties, inasmuch as it provides a means whereby the ribs can be secured and the sleeve done away with; and to accomplish

this I form the cup of any suitable elastic material—such as soft rubber—of any convenient shape, and slip it over the stick before the frame is attached, the elasticity of the rubber being in most cases sufficient to hold it in the desired position; or, in order to more effectually secure the cup in place, a flange may be formed on the sleeve of the cup, which can be inserted between the stick and handle of the umbrella, as shown in Fig. 3.

The second part of my invention relates to the cap placed over the stick on the top of the umbrella above the crown-ring. Heretofore the caps have been formed of metal and riveted or otherwise fastened; or, as in the case of fancy parasols, made of wood and suitably fastened. Caps formed of wood are liable to break or split, and in place thereof I make use of a small ring of rubber, which can be inserted over the stick, and which retains its required position by reason of the elasticity of the material of which it is made.

The third portion of my invention relates to a puff, also made of an elastic material, like rubber, inserted over the runner, and adapted to cover the ends of the stretchers, where they are united to the runner. Puffs have usually been made of silk, which rapidly wear out or are destroyed. A puff made according to my invention can be readily applied; and will stand any amount of wear.

In the drawings, A is the umbrella-stick, which may be made continuous with the handle, as in Fig. 2, or have at its end a tenon, B, as in Fig. 3. C is the handle, provided with a mortise, C', to receive the tenon. D is the cup, which may be made of any elastic material and of any desired shape. The sleeve D' is slightly smaller than the stick, so as to grasp it firmly, or which may be provided with the flange D'', adapted to be placed over the tenon and between the stick and the handle, as shown in Fig. 3.

On the outer circumference of the cup I provide the ring E, adapted to be placed over the ends of the ribs F, so as to hold them in position. To release the ribs it is only necessary to invert the cup. G is the cap, also of rubber or elastic material, placed over the end of the stick, over the crown-ring H, or over the fringe or trimming I.

J is the puff, also of rubber or elastic material, and arranged on the runner K and over the ends of the stretchers L.

I claim as my invention—

- 5 1. The combination, in an umbrella, of the stick having a tenon, the elastic cup provided with a flange on the sleeve of said cup, and the mortised handle, substantially as described.
2. In an umbrella, the combination of the
10 stick, the crown-ring, fringe or trimming, and

the cap of elastic material, substantially as described.

In testimony whereof I have hereunto subscribed my name this 6th day of January, A. D. 1885.

JOHN MATZENBACHER.

Witnesses:

GEORGE H. BENJAMIN,
A. E. SEXTON.