Feb. 5, 1929. 1,701,067

L. FINVER

UMBRELLA OR THE LIKE

Filed Jan. 18, 1927

Fig. 1

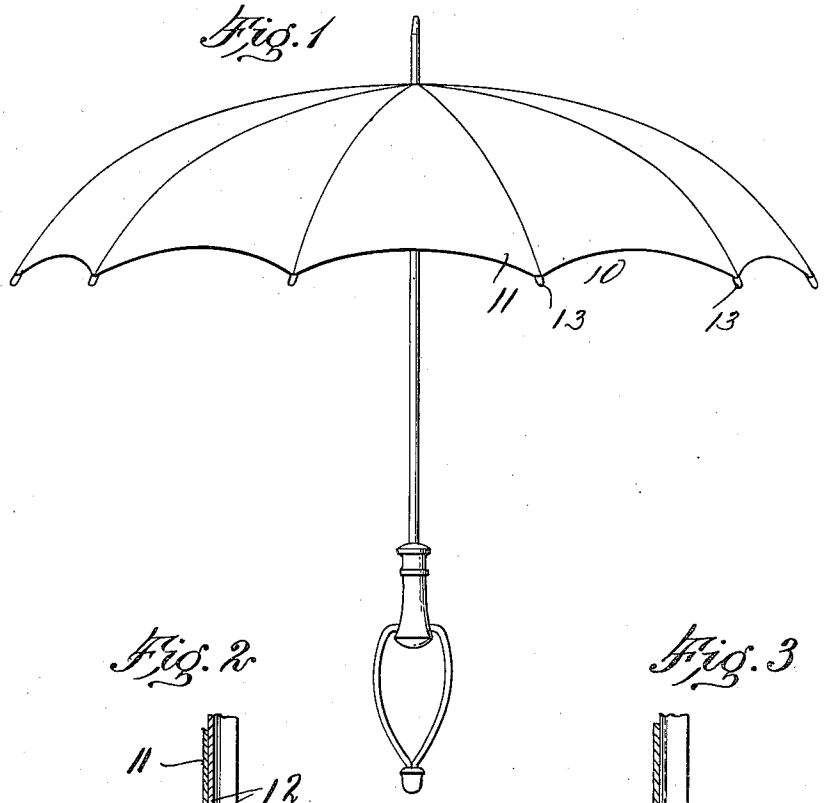


Fig. 2

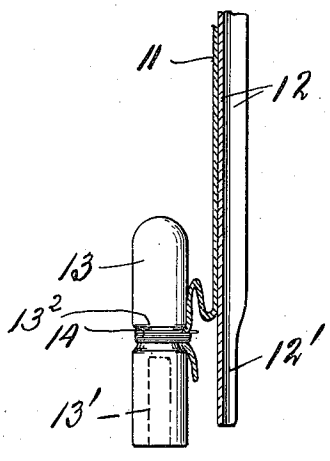
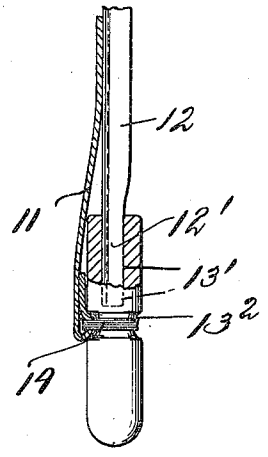


Fig. 3



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UNITED STATES PATENT OFFICE.

LOUIS FINVER, OF BROOKLYN, NEW YORK, ASSIGNOR TO PELTZ, BOHRMAN, FINVER, INC., OF NEW YORK, N. Y.

UMBRELLA OR THE LIKE.

Application filed January 18, 1927. Serial No. 161,728.

This invention relates to umbrellas, or the like and particularly to such having tips attached to the cloth constituting the shade and which are removably borne on the ends of the tiltable bars or ribs constituting the foldable frames of the umbrella.

Hitherto umbrellas have been made with tips formed with eyelets and which are either integral parts of the tiltable bars of the frame or are separably borne thereon. In both these cases the tips are attached to the cloth by stitching through the eyes thereof. The work of attachment in this manner consumes considerable time, is comparatively expensive and requires a certain skill. Besides, the thread passing through the eyes of the tips is visible on the outer face of the cloth. As this work must be performed by hand it is natural that to produce neat work, comparatively high prices must be paid therefor which considerably increase the cost of manufacture of umbrellas.

The object of this invention is to obviate these objections which I accomplish in a very simple manner by providing separable tips with annular grooves, so that their attachment to the cloth can be done by the mere winding and tying threads around the cloth and through the grooves of the tips thus eliminating stitching altogether.

My invention will be rendered more clear by reference to the accompanying drawing in which similar characters denote corresponding parts and in which Fig. 1 is a front elevation of an umbrella or parasol equipped with my new tips; and Figs. 2 and 3 show the manner of attachment of the tips to the cloth and the tiltable bars of the frame, the same being enlarged sectional views of a tiltable bar, with a tip attached to the cloth prior to and subsequent to mounting on the bar.

In the drawing 10 denotes an umbrella or parasol of usual construction of which 11 is the cloth constituting the shade, 12 one of the tiltable bars of the foldable frame and 13 the tips thereof. These tips are, as usual, made out of metal or amber, of cylindrical shape rounded at one end and with a central bore 13^1 open at the opposite end serving to snugly engage the reduced end 12^1 of a tiltable bar 12 of the frame. About midway between its ends said tip is formed circumferentially with an annular groove 13^2. The attachment of the tips to the cloth or shade 11 is effected as follows:—

The free, generally pointed, end of the cloth to be attached to the corresponding bar 12 of the frame is slightly lifted from the bar and the tip 13 is placed in inverted position, i. e. with its rounded end directed upwardly, against the outer face of the pointed end of the cloth so that the latter will overlap the annular groove 13^1 of the tip. A piece of thread 14 is then tightly wound around the tip and cloth, so that the windings of the thread will bear in the groove 13^2 and its ends are then tied together. Thereupon the tip with the cloth attached to it is tilted into its operative position slipping its open end over the reduced portion 12^1 of the corresponding bar 12, as shown in Fig. 3. Thereby the attached portion of the cloth becomes folded upon itself and the thread 14 is concealed from view behind the shade. It will be seen that my new method of attachment is greatly simplified, requires no skill and greatly improves the appearance of the umbrella.

What I claim is:

1. In an umbrella, means for the attachment of the cloth to the ribs, consisting of hollow separable tips adapted to tightly fit on said ribs, and formed with annular grooves and flexible means adapted to be tied in said grooves around said tips and cloth.

2. A method of attaching the cloth of an umbrella to the rigs, consisting in forming hollow tips with annular grooves, placing said tips in inverted position against the outer faces of the pointed ends of the cloth, winding and tying threads in said grooves around said tips and said ends of the cloth, then reversing the position of said tips and slipping them over the ends of said ribs.

In testimony whereof I affix my signature

LOUIS FINVER.