

M. & L. Hirsh,
Umbrella.

No. 111,453.

Patented Jan 31. 1871.

Fig. 1.

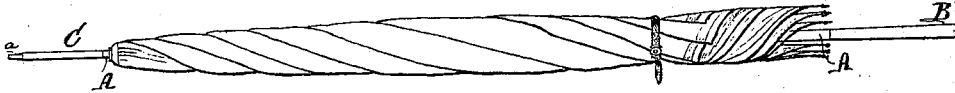


Fig. 2.

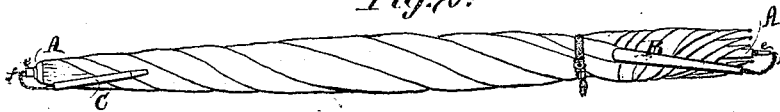


Fig. 3.

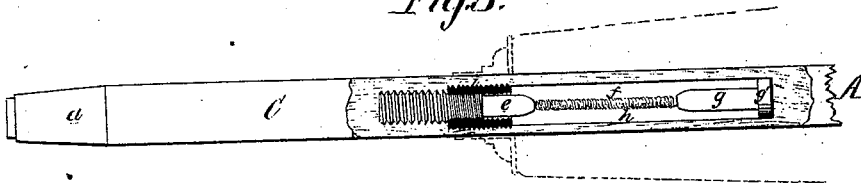


Fig. 4.

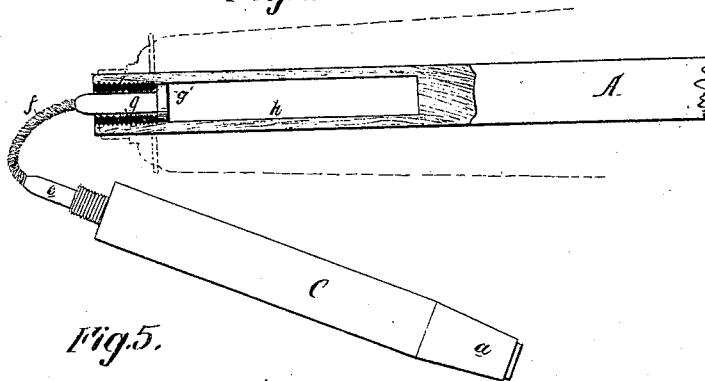
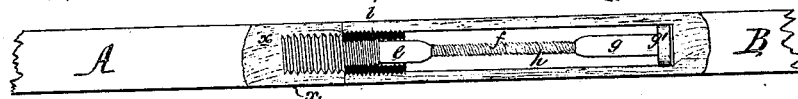


Fig. 5.



WITNESSES { *Wm. A. Steel,*
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by their atty
Horizon and son

United States Patent Office.

MASON HIRSH AND LEOPOLD HIRSH, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 111,453, dated January 31, 1871.

IMPROVEMENT IN UMBRELLA.

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

We, MASON HIRSH and LEOPOLD HIRSH, of the firm of Hirsh & Brother, of Philadelphia, county of Philadelphia, State of Pennsylvania, have invented an Improvement in Umbrellas, of which the following is a specification.

Nature and Object of the Invention.

Our invention relates to umbrellas having the handles or tips, or either, connected to the stick as to form a rigid part of the latter when the umbrella is in use, but so that they can be disconnected from the stick without being entirely detached from the same, in order to reduce the length of the umbrella when the latter is to be packed into a trunk or other contracted space; and

Our invention further relates to a means of attaching the handles or tips to the stick, fully described hereafter.

Description of the Accompanying Drawing.

Figures 1 and 2 are views of our improved umbrella;

Figure 3, an enlarged sectional view of part of the same, showing the tip of the umbrella rigidly connected to the stick;

Figure 4, the same with the tip disconnected; and

Figure 5, an enlarged view, showing the method of attaching the handle of the umbrella to the stick.

General Description.

The stick of the umbrella consists of three sections, namely, of the stick proper, A, which is of about the same length as the folded cover of the umbrella, and to which the latter and the frame are secured in the ordinary manner, and of a handle, B, and tip, C, the end of the latter being protected by the usual ferrule *a*.

The handle is attached to the stick of the umbrella in the following manner:

A threaded stem, *e*, is screwed into or otherwise secured to the end *x* of the stick, as shown in fig. 5, and to this stem is connected one end of a spiral spring, *f*, the opposite end of which is similarly connected to a metal slide, *g*, which is adapted to a recess, *h*, formed in the handle. The slide can be partially withdrawn from the recess in the handle through an opening extending through the center of a metal plug, *i*, which is screwed into or otherwise secured within

the recess *h*, and the said slide is prevented from being entirely withdrawn from the handle by an enlargement, *g'*, at its rear end, which is of too great a diameter to pass through the opening in the plug.

When the handle has to be rigidly secured to the stick of the umbrella, it is merely screwed onto the threaded stem *e* of the latter, the hole in the plug or nut *i* having a screw-thread formed within it, corresponding to that of the said stem *e*.

The tip C of the umbrella is connected to the stick in the same manner as the handle, the only difference being that the threaded stem is attached to the tip instead of to the stick, while the latter is arranged to receive the nut or plug and slide.

We are aware that the detachable handles have been secured to chains or links connected to slides in the hollow stem, and make no broad claim to the combination of the handle, hollow stem, and connecting devices; but it will be seen that an umbrella having both the tip and handle detachable is a new manufacture, can be made more compact, and can be reduced in length to a serviceable degree without dividing the stem above the point where it joins the handle.

It will also be seen that, by the use of a spiral-spring connection, the necessity of bringing the stick to an upright position when the handle or tip is to be adjusted is avoided, and that the recesses may be shorter, and the stick consequently stronger, inasmuch as the spring may be compressed so as to occupy but little space.

Claims.

1. As a new manufacture, an umbrella, the handle and tip of which are connected to the stem so as to be detachable from the same, as set forth.

2. The combination, with the recessed stick A, detachable handle and tip, and slides *g g'*, of spiral springs *f* connecting the tip and handle to the slide, as specified.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

MASON HIRSH.
LEOPOLD HIRSH.

Witnesses:
WM. A. STEEL,
F. B. RICHARDS.