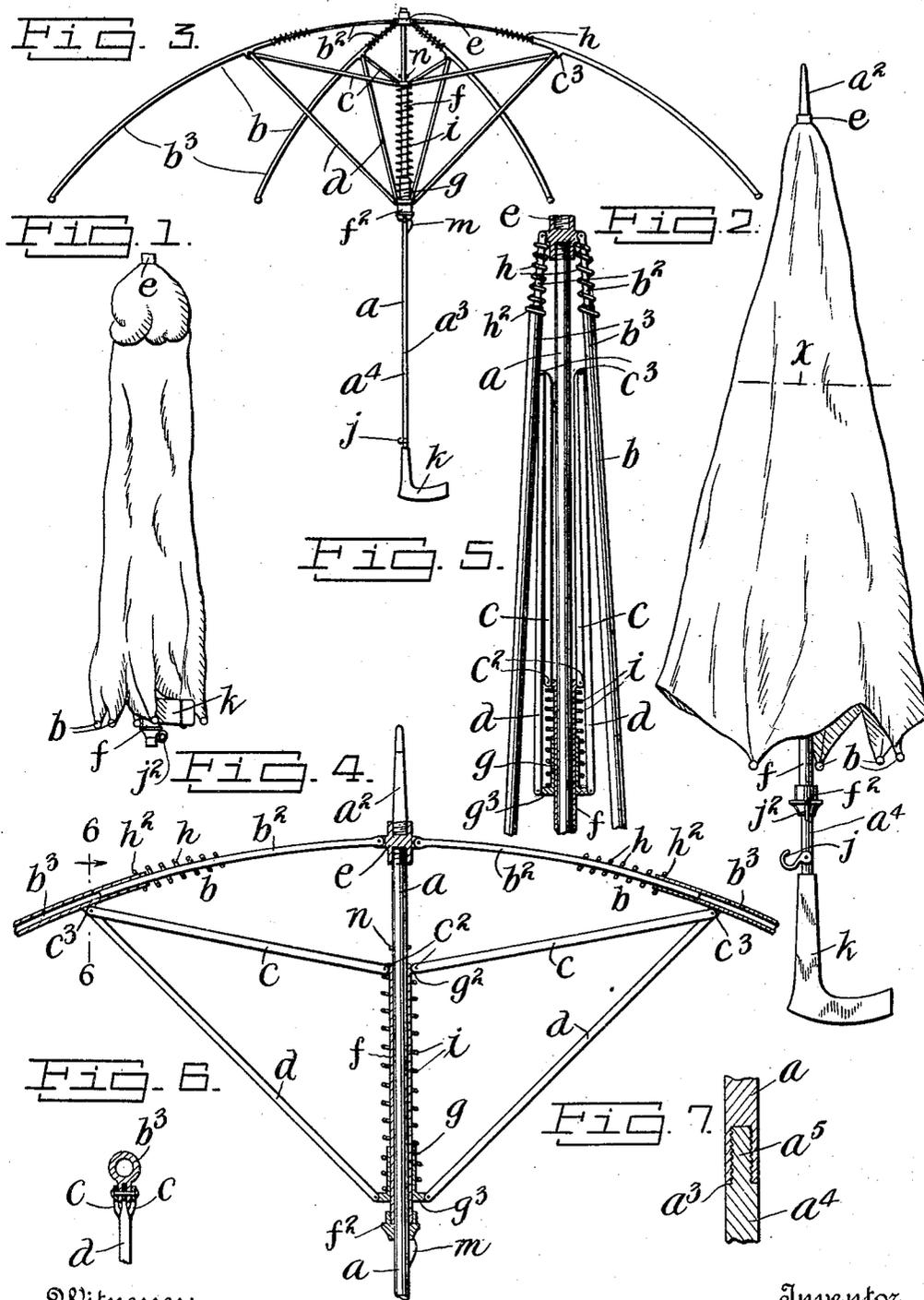


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 UMBRELLA.

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UNITED STATES PATENT OFFICE.

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UMBRELLA.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JAMES A. McNAMARA, a citizen of the United States, and residing in the Bronx, in the city and county of New York and State of New York, have invented certain new and useful Improvements in Umbrellas, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to umbrellas, parasols and like devices, and the object thereof is to provide an improved device of this class particularly designed for use as an umbrella and which may be compactly folded or closed up and shortened so that it may be packed in a small space and conveniently carried in a hand bag, trunk, or like receptacle and which will also be strong and durable, and the frame work of which will not be apt to get out of order or need repair.

The invention is fully disclosed in the following specification of which the accompanying drawing forms a part, in which the separate parts of my invention are designated by suitable reference characters in each of the views, and in which;—

Figure 1 is a view showing my umbrella compactly folded together in its smallest form;— Fig. 2 a view showing the umbrella folded but ready for expansion and use;— Fig. 3 a side view of the frame work of my improved umbrella and showing only one-half thereof and showing the ribs extended. Fig. 4 a view similar to Fig. 3 but on an enlarged scale and showing only two of the ribs and corresponding braces with parts in section;— Fig. 5 a view on an enlarged scale with the cover detached and showing the parts of the frame folded together, as shown in Fig. 1;— Fig. 6 a section on the line 6—6 of Fig. 4 and on an enlarged scale, and;— Fig. 7 a view showing a detail construction in section.

In the practice of my invention I provide an umbrella frame comprising a stick *a*, ribs *b* and two sets of braces *c* and *d* mounted on and movable on the stick *a*, said parts being constructed and operating as hereinafter described. The stick *a* is provided with a head *e* with which the ribs *b* are connected, and the ferrule end *a*² of the stick is detachably connected with said head. Mounted on the stick *a* is a sleeve *f* provided at its lower end with a sleeve *f*²,

and mounted on the sleeve *f* is a supplemental sleeve *g*. The braces *c* are connected with the upper or inner end of the sleeve *f* at *c*², and with the ribs *b* at *c*³, and the braces *d* are connected with the lower end of the supplemental sleeve *g*, and with the ribs *b* at *c*³, or the point where the braces *c* are connected therewith.

The ribs *b* are composed of separate telescopic parts *b*² and *b*³ the outer parts *b*³ being tubular in form and the inner parts *b*² being adapted to slide therein, and mounted on the parts *b*² are spiral springs *h* the outer ends of which are secured to the inner ends of the parts *b*³ of the ribs at *h*², and the inner ends of which are contracted or tapered so as to closely grip the parts *b*² of said ribs and at the same time permit them to slide freely thereon.

Mounted on the sleeve *f* is a spiral spring *i* which also incloses the sleeve *g* and which has a bearing at the upper or inner end *g*² of said sleeve *f* where the braces *c* are connected therewith, and at its lower end said spring has a bearing on the head *g*³ of the sleeve *g* with which the braces *d* are connected.

The stick *a* is divided at *a*³ into separate parts and the lower or outer part *a*⁴ with which the handle *k* is connected is provided with a threaded shank *a*⁵ adapted to be screwed into the corresponding end of the other part which is similarly threaded.

The head *f*² of the sleeve *f* operates in connection with the usual spring catch *m* mounted in the stick *a*, and pivoted to said stick adjacent to the handle *k* is a hook *j* adapted to engage an eye *j*² on the head *f*² to hold the cover, ribs and brackets in the approximate position shown in Fig. 2, when desired.

In the position of the parts shown in Fig. 2, the cover, ribs and braces are not compactly folded on the stick, and the braces *d* with the sleeve *g* do not show in said figure.

The cover, ribs and braces are expanded for use, as shown in Figs. 3 and 4, in the same manner as other umbrellas, and said parts are folded together as shown in Figs. 2 and 5 in the same manner, and in this operation the parts *b*³ of the ribs *b* slide freely on the parts *b*², and the sleeves *f* and *g* slide freely on the stick, and the upward or outward movement of the braces *c*, in the operation of expanding the umbrella for use, is limited by a stop *n* in the stick *a*.

The ribs and braces do not assume the position shown in Fig. 5 by simply folding the same with the cover, as shown in Fig. 2, but when said parts are folded, as shown in said figure, if the stick or handle be grasped in one hand and the other passed down over the body of the umbrella to a point indicated by the dotted line x in Fig. 2, the ribs, braces and cover may be slid together, as shown in Figs. 1 and 5 by pulling the stick outwardly, or by moving the cover and ribs in the opposite direction while the stick is held stationary.

When the handle end portion of the stick has been detached, the ferrule end a^2 may be screwed into the socket left vacant by the shank a^3 of the handle end portion a^4 of the stick, and the handle end portion of the stick may be inserted into the folded parts, as shown in Fig. 1, but the ferrule end portion a^2 of the stick need not necessarily be connected with the handle end portion and is not so shown in Fig. 1.

By providing the double set of braces as herein shown and described and connecting the same with the stick by means of the sleeves f and g , as shown and described, the sleeve g being slidably mounted on the sleeve f and by making the ribs telescopic, I provide a strong and substantial frame which can be folded compactly together and which will operate easily and freely in extending and folding the separate parts of the umbrella, and the springs h also facilitate said operation by preventing the too free movement of the parts b^3 of the ribs on the parts b^2 thereof and limiting and regulating such movement.

Having fully described my invention what

I claim as new and desire to secure by Letters Patent is:—

1. In an umbrella, a stick, ribs connected therewith and composed of separate telescopic parts, a sleeve mounted on the stick, a supplemental sleeve mounted on said first named sleeve, a set of braces connected with the top or inner end of the first named sleeve and with the ribs, another set of braces connected with the lower or outer end of the last named sleeve and with the ribs, and a spiral spring placed on said sleeves between the separate sets of braces, said ribs being also provided with spiral springs which are wound on the inner end portions thereof and connected with the outer end portions thereof.

2. In an umbrella, a stick, ribs connected therewith and composed of separate telescopic parts, a sleeve mounted on the stick, a supplemental sleeve mounted on said first named sleeve, a set of braces connected with the top or inner end of the first named sleeve and with the ribs, another set of braces connected with the lower or outer end of the last named sleeve and with the ribs, and a spiral spring placed on said sleeves and bearing on the separate sets of braces, said ribs being also provided with friction devices connected with one part thereof and operating in connection with the other part.

In testimony that I claim the foregoing as my invention I have signed my name in presence of the subscribing witnesses this 25th day of April 1913.

JAMES A. McNAMARA.

Witnesses:

C. MULREANY,
S. ANDREWS.