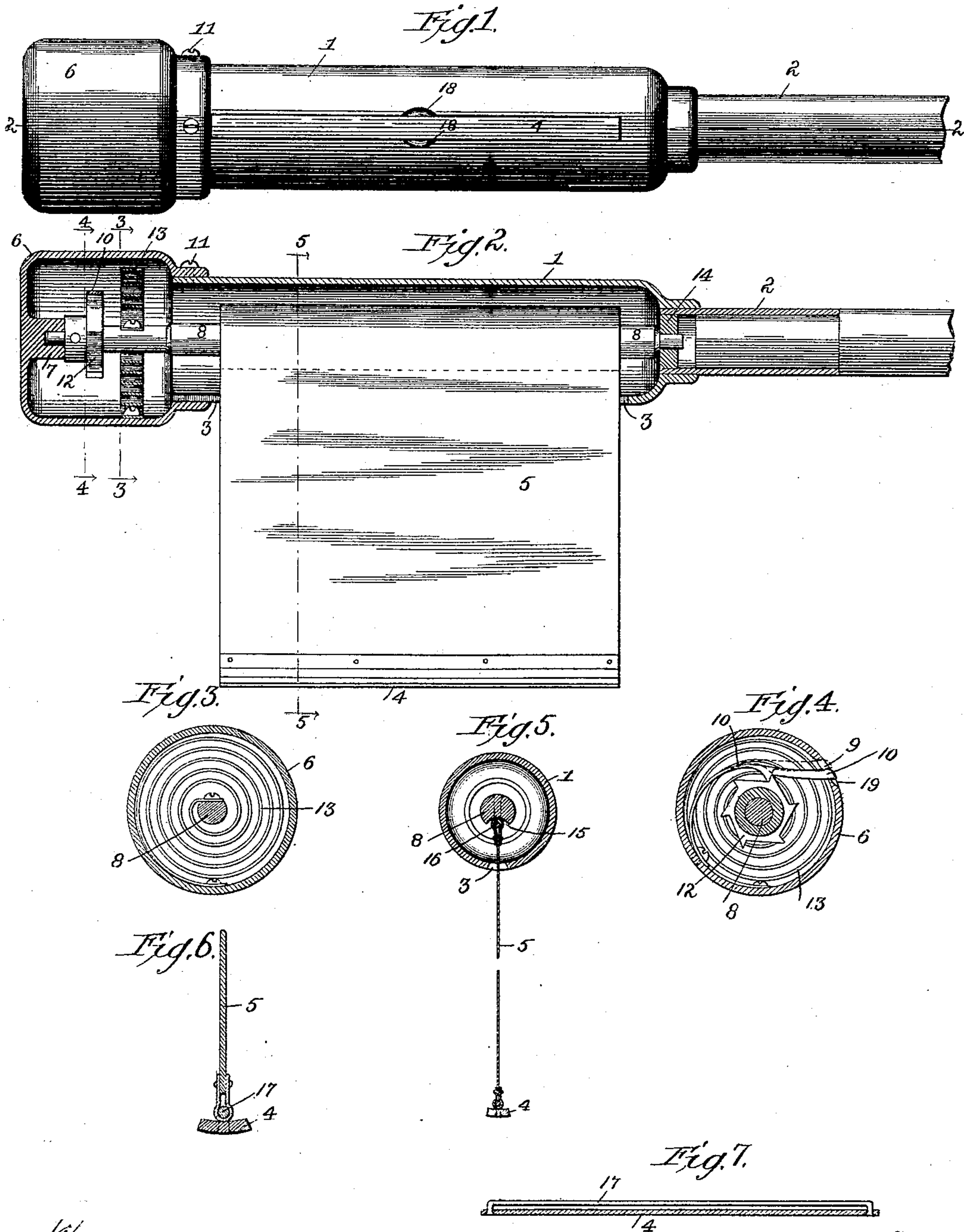


(No Model.)

M. W. KLAFF.  
HANDLE FOR UMBRELLAS, &c.

No. 495,978.

Patented Apr. 25, 1893.



Witnesses:

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att'y.



# UNITED STATES PATENT OFFICE.

MORITZ W. KLAFF, OF CHICAGO, ILLINOIS.

## HANDLE FOR UMBRELLAS, &c.

SPECIFICATION forming part of Letters Patent No. 495,978, dated April 25, 1893.

Application filed January 16, 1893. Serial No. 458,523. (No model.)

*To all whom it may concern:*

Be it known that I, MORITZ W. KLAFF, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Umbrella-Handles and Analogous Articles; and I 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 appertains to make and use the same.

My invention relates to improvements in umbrella handles, canes and analogous articles.

The object of the invention is to provide said articles with a convenient tubular receptacle adapted for the reception and display of printed matter, pictures, maps and drawings or any matter adapted to be illustrated upon thin material such as paper, linen and silk, and thus to give an added usefulness to said articles without detracting from or impairing their usefulness for the purpose primarily intended.

With these objects in view, the invention consists in forming said articles tubular, and inserting centrally therein a roller upon which the material printed or illustrated is mounted, and which may be conveniently drawn out from said tube for inspection, and is retracted therein by means of a spring, a pawl and ratchet wheel operating to hold the material at any desired point when drawn out.

The invention further consists in the novel combination, construction and arrangement of parts and which are hereinafter fully described and set forth and illustrated in the accompanying drawings, in which—

Figure 1 is an elevation of my improved umbrella handle. Fig. 2 is a longitudinal section taken on the line 2. 2. of Fig. 1 in which the display sheet of material is partly drawn out. Fig. 3 is a transverse section taken on the line 3. 3. of Fig. 2. Fig. 4 is a transverse section on the line 4. 4. of Fig. 2. Fig. 5 is also a transverse section on the line 5. 5. of Fig. 2 with the sheet of material drawn out full length. Figs. 6 and 7 are detail views of the slit cover to which the outer end of the sheet material is attached.

In the drawings 1 designates the handle, which as here shown is a metal tube but which

may be formed of wood or other material if desired, said metal tube is spun down or formed smaller in diameter at the upper end to receive the umbrella stick, or as herein shown is solidly attached to a metal tube 2 upon the end of said stick, said handle or tube is provided with a longitudinal slit or opening 3 through which the printed material is drawn, said slit is provided with a cover 4 to which the outer end of the material 5 is attached, said cover is circumferentially even with the outside of the handle when seated in said slit.

6 is the knob of the handle which is adapted to contain the operating mechanism, said knob is provided with a boss 7 upon the inside of the closed end which is perforated and adapted to form a bearing for one end of the roller shaft 8, said knob is also provided with a slotted opening 9 for the insertion of the outer end of the spring pawl 10, and is attached to the body handle by the screws 11, the inner end of said pawl is solidly attached to the inside of the knob and is adapted to be lifted from contact with the ratchet wheel 12, upon the outside of the knob in said slotted opening as shown by dotted lines in Fig. 4, said ratchet wheel is solidly attached to said roller shaft.

13 is an involute or clock spring, the outer end of which is solidly attached to the inside of the knob, and the inner end of said spring is solidly attached to said roller shaft, said spring is wound up by the revolution of said roller shaft in drawing out and unwinding the material attached thereto, and the resilient action of said spring reverses the motion of said shaft and retracts and rewinds said material upon said roller shaft when released by said pawl and ratchet wheel.

14 is a cylindrical block or disk inserted in the end of the umbrella stick tube 2 and is perforated for a bearing for the other end of the roller shaft.

15 is a lengthwise groove cut in the roller shaft into which is fixed a staple wire 16, the ends of which are solidly attached to said roller shaft, and the body of which is supported by said ends from said shaft to provide room between said wire and shaft for the insertion of a thin strip of metal to which the material to be drawn out is riveted.



17 is a like wire staple attached to the slit cover to which the other end of the material is attached in like manner.

18 are concave depressions milled out of the handle upon opposite sides of the slit cover, adapted for the ends of the finger and thumb to pull out said cover, 19 is a like depression adapted for lifting the pawl from the ratchet wheel.

From the foregoing description of the parts the practical operation will be clearly seen from an inspection of the drawings. The handle being in a finished state with the operating mechanism inclosed, and the material or matter to be shown is attached to and wound upon the shaft roller, and attached to the slit cover as shown in Fig. 1, the said cover may then be pulled out through the slit in the handle, and that this action will unwind said material upon said shaft, and at the same time will wind up the spring, and that the ratchet wheel and pawl will hold the material thus pulled out at any desired point, and further, that when the pawl is lifted from the ratchet wheel, the reaction of the spring will retract, and re-roll said material upon said roller shaft, until the slit cover is brought to its seat upon the handle, the tension of the spring being properly adjusted for this purpose.

It will be observed that the slit in the handle extends to the outer end of the handle, so that when the parts are all connected to the knob, with the material wound upon the roller, they may be readily inserted into the handle from the end, and when thus in, the knob is secured thereto by means of the external screws. If the knob were threaded to the handle this would require the turning of the knob, and necessitate leaving the outer end of the material disconnected from the slit cover, and connecting them after the parts were together, which is obviated by my construction and is a valuable feature as the parts can be more quickly and easily separated and old material matter taken off and new put on.

In the drawings I have only shown my invention as applied to the handle of an umbrella, for the reason that its application to a cane or other article would be identically the same, the only difference being in the width of the material and the length of the roller for which the article might be adapted.

The invention is adapted to be utilized for various purposes. The engineer and contractor may safely and conveniently carry their drawings in a cane or tube, maps, pic-

tures, photographs and city guides may also be carried either for profit or pleasure, it may also be used as an advertising medium by the maker or seller and by others.

My invention is susceptible of some modifications, such as the substitution of other kinds of springs, and of friction bands or clutch, in place of the ratchet wheel and pawl, but which do not depart from the spirit of my invention. I do not therefore limit myself to the precise form or construction and arrangement of the parts as herein shown.

I am aware that canes and other like articles have been made tubular to form a receptacle, the ends being removable and the matter pushed into the tubular part. I do not therefore broadly claim a tubular receptacle in said articles as my invention.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

In an article of the kind described the combination comprising the tube or handle 1, provided with the slit or opening 3, the stick tube 2 solidly attached to or formed integral with said tube or handle, the shaft journal bearing or box 14 inserted in said stick tube, the knob or head 6 attached to said tube or handle by means of the screws 11 and provided with the shaft box 7, the roller shaft 8 adapted to be fitted to said boxes or bearings, and provided with the groove 15 and wire staple 16, the display material 5, the inner end of which is attached to said roller shaft and adapted to be wound thereon, the spring 13, the outer end of which is attached to said knob or head, and the inner end of which is attached to the said roller shaft, the ratchet wheel 12 solidly attached to said roller shaft, the spring pawl 10, the end of which extends through the opening 9, in said knob or head, and the concave depression 19, adapted for the lifting of said pawl in said opening, the slit cover 4, attached to the outer end of said display sheet by means of the wire staple 17, and the concave depressions 18 in said tube or handle, adapted for the ends of the fingers to pull out said cover and material, from said tube or handle, combined and arranged in the manner, and for the purpose substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

MORITZ W. KLAFF.

Witnesses:

JACOB G. GROSSBERG,  
EARL F. HORTON.