(No Model.)

J. H. NOLAN.

COMBINED CANE AND UMBRELLA.

No. 588,595. Patented Aug. 24, 1897.

Fig. 1.

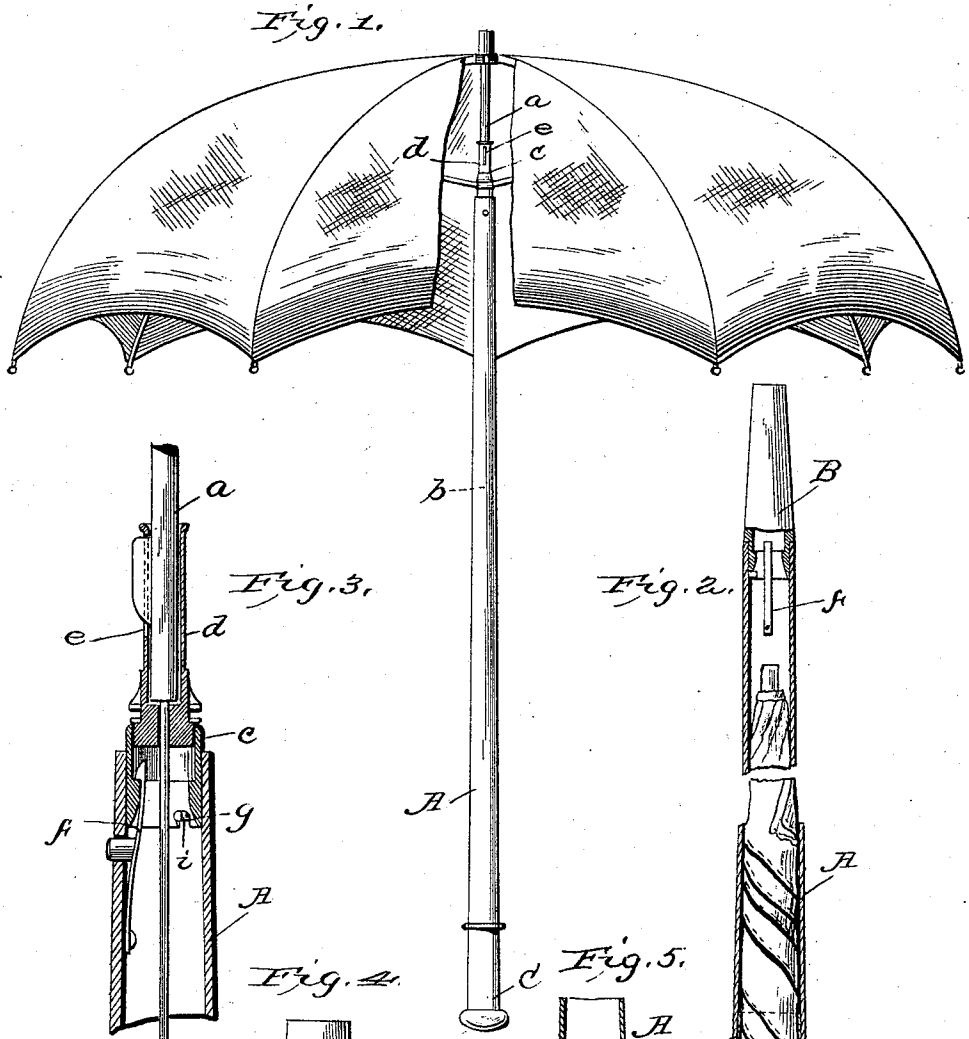


Fig. 3.

Fig. 2.

Fig. 4.

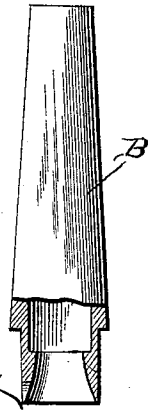
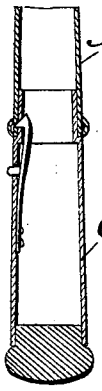


Fig. 5.



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COMBINED CANE AND UMBRELLA.

SPECIFICATION forming part of Letters Patent No. 588,595, dated August 24, 1897.

Application filed July 29, 1896. Serial No. 600,958. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. NOLAN, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in a Combined Cane and Umbrella, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to a combined umbrella and cane of that class in which the case adapted to contain the folded umbrella is used as a stick to support the umbrella when it is open and in use.

The invention more particularly relates to the special construction of the runner and the details by which it is connected with the case when the umbrella is open, the construction having for its object the compact folding of the umbrella and the supporting of it in an open condition independently of the case.

The details of construction are of great importance in this class of umbrellas.

I have illustrated my invention in the accompanying drawings, in which—

Figure 1 illustrates the umbrella as opened and in place upon the end of the case or stock. Fig. 2 is a sectional view through the case, showing the umbrella folded therein. Fig. 3 is a detail of the runner-ferrule and its particular connection with the end of the case. Figs. 4 and 5 are views of details.

In the drawings, A indicates the case, which serves as the umbrella-stick and to include the folded umbrella. It is in the form of a cane, made tapering, of suitable thin material, and at the smaller end it is fitted to receive the lower end of the runner. This runner is shown more clearly in section in Fig. 3. The lower part of it (marked *c*) is tubular and is open at the lower end, being fitted to enter snugly into the upper end of the case, in which position it is shown in Fig. 3. This part of the runner is of the largest diameter. Next above this larger portion are the lugs to which the inner ends of the stretchers are pivoted. Above this is a reduced portion *d*, extending upwardly and provided with a slot adapted to receive a spring-catch *e*.

The inner ends of the ribs are pivoted upon a rod *a*, which, when in connection with the case, forms therewith an extension of the umbrella-stick. This rod *a* is fitted to the upper reduced end of the runner, which forms a socket, in the bottom of which the end of the rod rests when the umbrella is extended. A small extension of the rod *a* is shown at *b*. This is fixed securely in the lower end of the rod *a* and in line with its axis and extends a little beyond the limit of movement of the runner when the umbrella is closed, so that it may be grasped by the hand in opening the umbrella, the runner running upon the rod in opening and closing the umbrella.

Around the inside of the tubular part of the runner is a shoulder, and the lower edge of this tubular extension is beveled below the shoulder, and when the tubular extension is inserted in the case its beveled edge rides under the beveled end of a spring-catch *f*, lifting it until the head of the catch engages with the shoulder, whereby the runner is firmly held upon the end of the case. A knob on the spring-catch passes through a hole in the wall in the case, by means of which knob the catch may be released.

In order to prevent the runner and umbrella from turning upon the case, a notch *g* is formed in the edge of the tubular extension and this fits over a stud *i* on the inner face of the case when the extension is in place.

It will be observed that in closing the umbrella the runner is drawn off from the rod *a*, leaving the stretchers to fold down without obstruction upon the reduced extension *d*, while the larger portion of the runner drawn to the end of the rod *b* is located in the larger end of the case when the umbrella is inserted therein. When the umbrella is opened by reverse movement of the runner, the extension *d* runs up upon the rod *a* until the bottom of the cavity is reached and the slot registers with the spring-catch *e*, which locks the umbrella in open position.

I have provided a cap B for the smaller end of the case. This closes the case and forms the end of the cane. I have also provided a detachable head C, fitted to be locked upon the case A, as shown in Fig. 5.

The rod *b* serves to open the umbrella and as a guide for the runner, through the center of which it passes in an axial hole opening into the bottom.

It will be observed that the upward exten-

sion of the runner and the location of the catch therefor, so that the connection is made above the stretcher connection, is one of the features of the invention. This special construction permits the joint to be made between the runner and the case at a point nearer the junction of the stretchers and the ribs without interfering with the catch and slot. This is desirable for the reason that there is thus less leverage at the joint and the stick or handle is made shorter when the umbrella is open.

I claim—

1. In combination with the case fitted to serve as a stick and also to contain a folded umbrella, a runner having an enlarged lower end fitted to the upper end of the case and means for detachably connecting it with the end of the case and a reduced upper extension above the point of attachment of the stretchers and provided with a slot for engagement with the catch of a rod *a*, to which the ribs are pivoted, substantially as described.

2. A case adapted to receive the folded umbrella and to serve as a stick therefor when the umbrella is open, the same case having a catch and a pin in the interior of its smaller open end, a rod *a* to which the ribs of the umbrella are pivoted, said rod having a spring-catch and a reduced extension *b*, a runner which has an enlarged tubular lower end fitted to enter the upper end of the case and provided with an interior shoulder and notched beveled edge, and having also a reduced upper end extending above the point of attachment of the stretchers, said upper end being provided with a slot for the catch, all these parts being constructed and combined substantially as described.

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

JOHN H. NOLAN.

Witnesses:
C. H. WELCH,
F. L. MIDDLETON.