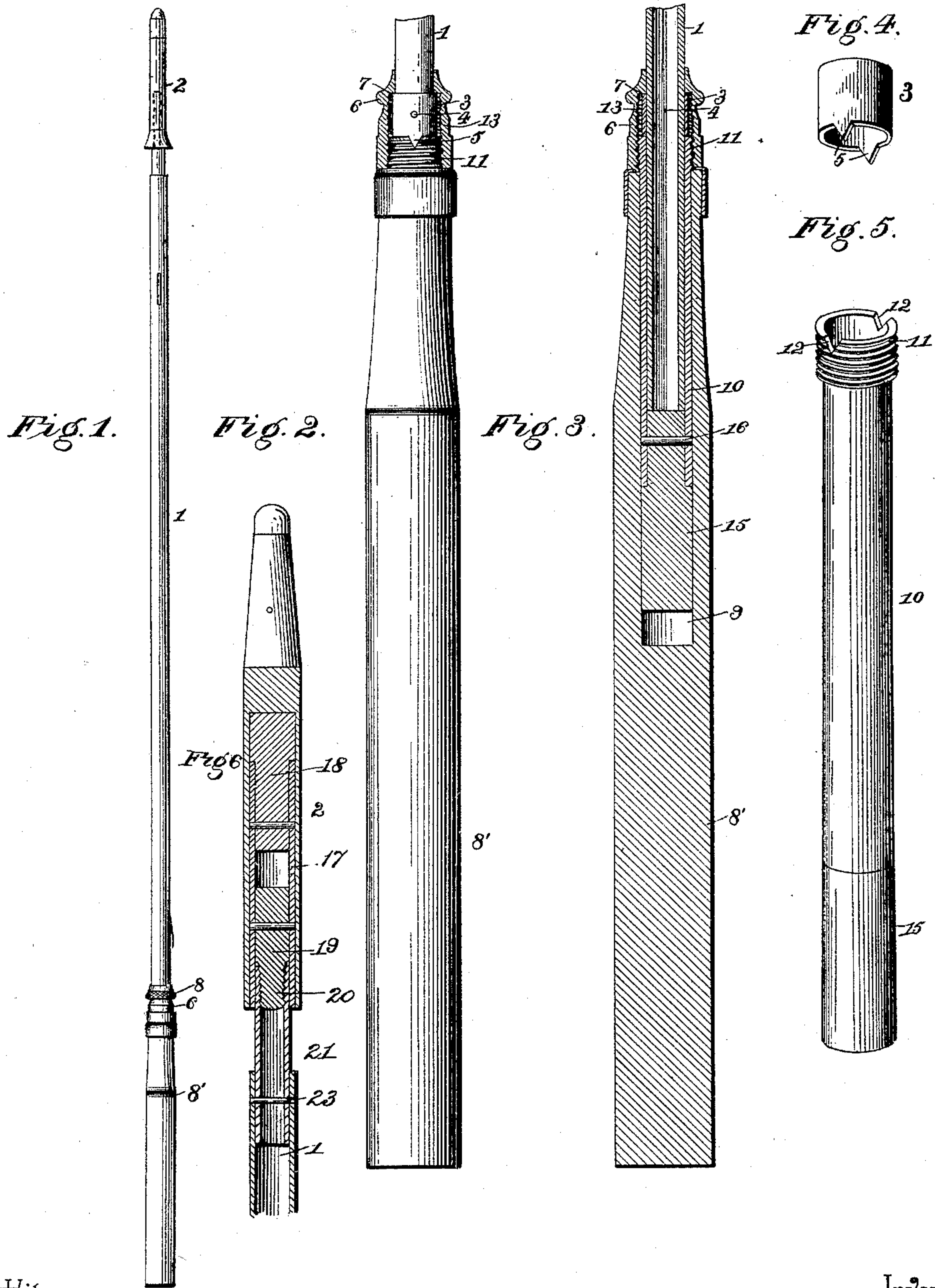


(No Model.)

J. H. SPRAGUE.
UMBRELLA STICK.

No. 485,719.

Patented Nov. 8, 1892.



Witnesses

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UNITED STATES PATENT OFFICE.

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UMBRELLA-STICK.

SPECIFICATION forming part of Letters Patent No. 485,719, dated November 8, 1892.

Application filed April 5, 1892. Serial No. 427,888. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. SPRAGUE, a citizen of the United States, residing at Norwalk, in the county of Huron and State of Ohio, have invented a new and useful Umbrella-Stick, of which the following is a specification.

My invention relates to improvements in umbrellas, parasols, and the like, and more particularly to the sticks thereof.

The objects of my invention are to provide a stick, the handle and tip of which are detachable, and to provide a simple and convenient means for securing the same removably or detachably in position.

With these objects in view the invention consists in certain features of construction hereinafter specified, and particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a side elevation of an umbrella-stick embodying my invention. Fig. 2 is a detail of the lower portion of the stick, illustrating its connection with the handle, the ferrule being shown in section. Fig. 3 is a longitudinal section of the same parts, as shown in Fig. 2. Fig. 4 is a detail of the tube located in the handle. Fig. 5 is a similar view of the band employed near the lower end of the stick. Fig. 6 is a detail in section of the tip and its connection with the upper end of the umbrella-stick.

Like numerals of reference indicate like parts in all the figures of the drawings.

In the present instance, 1 designates a tubular stick, though, as will be obvious, the same may be of the ordinary wooden style, and said stick has its upper end removably connected with the tip 2. Near the lower end of the stick a metal band 3 encircles the same and is riveted in position, as at 4. This band is provided at its lower side and at diametrically-opposite points with downwardly-disposed V-shaped lugs 5. In rear of the band a ferrule 6 encircles the stick, which ferrule has a bore considerably larger than the stick, except at its upper end, where it is reduced to loosely fit the stick, and thus a shoulder 7 is provided. Exteriorly the ferrule is preferably milled, as at 8, whereby a thumb and finger hold is provided to facilitate rotation of said ferrule.

8 designates the handle, and the same may

be of any desired style or ornamentation. It is essentially provided with a cylindrical bore 9. A metal tube 10 fits snugly within the bore and occupies the major portion thereof, the upper end of the tube extending above the handle, where it is provided with an exteriorly-threaded external boss 11, provided at diametrically-opposite sides with V-shaped notches 12. The tube is of an internal bore adapted to somewhat loosely fit the stick, the shoulder of the boss resting on the handle, and the V-shaped notches 12 of the boss receive the V-shaped lugs of the band before mentioned. The ferrule before described is internally threaded, as indicated at 13, near its lower end, and by inserting the stick into the tube and running the ferrule down upon the boss until the shoulder of the ferrule binds against the upper side of the band a most secure coupling is effected between the handle and stick. At the same time by retrograding the ferrule a disconnection between the handle and the stick is readily effected.

Various means may be provided for securing the metal tube within the handle—such, for instance, as passing a rivet through the handle and tube; but in many instances objection might be raised to the marring of the handle by such rivet, and I therefore prefer to insert a wooden dowel-pin 15 in the lower end of the tube, securing the same in position by means of a rivet 16, passed transversely through the dowel-pin and tube, and subsequently securing the dowel-pin within the bore of the handle through the agency of glue or cement. By such an arrangement as I have provided it will be seen that the tip and handle may be removed and the umbrella or parasol that would be otherwise too long for a trunk may now readily be inserted, whereby a great convenience accrues to travelers. A further advantage of such an arrangement is that it permits the handle of the umbrella to be changed at will, and a person may have a set of handles which he may readily apply at his pleasure, and thus maintain the style without the necessity of buying a new umbrella at each change, and, finally, it permits the retailer of umbrellas to give the selection to the customer of a large assortment of handles with but a really-limited stock of umbrellas, as the handles are inter-

changeable, and any handle of this make or construction will fit any umbrella thus manufactured.

Numerous means may be provided for securing the tip removably upon the upper end of the stick, and I have herein illustrated in Fig. 6 of the drawings a particular means, which I find to be very advantageous. The tip 2 is made hollow or longitudinally bored and receives a metal tube 17, which extends from the outer end of the bore to near the inner end. This tube has fitted in its inner end a wooden dowel 18, to which it is riveted or otherwise secured, and the dowel is glued in the bottom or inner end of the bore of the tip. In this manner I avoid marring the tip by riveting the tube and tip together and at the same time form a secure joint. In the outer end of the tube there is riveted a metal plug 19, which below its point of rivet is exteriorly reduced and threaded to form a screw 20, and the plug removably screws into and engages a thread of a short tubular section 21, which extends from the upper end of the stick and is secured to the latter by any suitable means—as, for instance, a rivet 23.

Having described my invention, what I claim is—

1. The combination, with the stick and the external band mounted on the stick above the lower end thereof and provided with lugs at its lower edge, of the handle having a bore in its upper end, a metal tube seated in the handle and adapted to receive the stick and provided at its upper end above the handle with the externally-threaded boss having notches to receive the lugs, and the ferrule loosely mounted on the stick, having its lower end internally threaded to engage the threads of the boss and its upper end reduced to fit the

stick above the band and form a shoulder for bearing thereon, substantially as specified.

2. The combination, with the stick and the external band mounted on the stick above its lower end and provided at diametrically-opposite sides and at its lower edge with V-shaped lugs, of the handle having a bore in its upper end, a metal tube seated in the handle and adapted to receive the stick, the wooden dowel-pin located in the lower end of the tube and glued within the bore of the stick, the externally-threaded boss located at the upper end of the tube above the handle and provided with diametrically-opposite V-shaped notches adapted to receive the V-shaped lugs of the band, and the externally-milled ferrule mounted on the stick and having its lower end internally threaded to fit the boss of the tube and its upper end reduced to fit the stick and to form a binding-shoulder above the clasp, substantially as specified.

3. The combination, with the stick having the tubular extension internally threaded at its outer extremity, of the tip having the bore, the tube provided with the wooden dowel-pin secured thereto, mounted in the bore, said pin being glued within the same and the tube adapted to receive the tube of the stick, and the plug riveted in the outer end of the tube of the tip and at its outer extremity externally reduced and threaded to fit within and engage the threads of the tube of the stick, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JAS. H. SPRAGUE.

Witnesses:

THEO. P. STEDWELL,
HENRY S. MITCHELL.