

No. 876,734.

PATENTED JAN. 14, 1908.

C. A. SCOTT & A. F. WHIPPLE.

DETACHABLE FERRULE.

APPLICATION FILED MAR. 26, 1907.

Fig. 1.

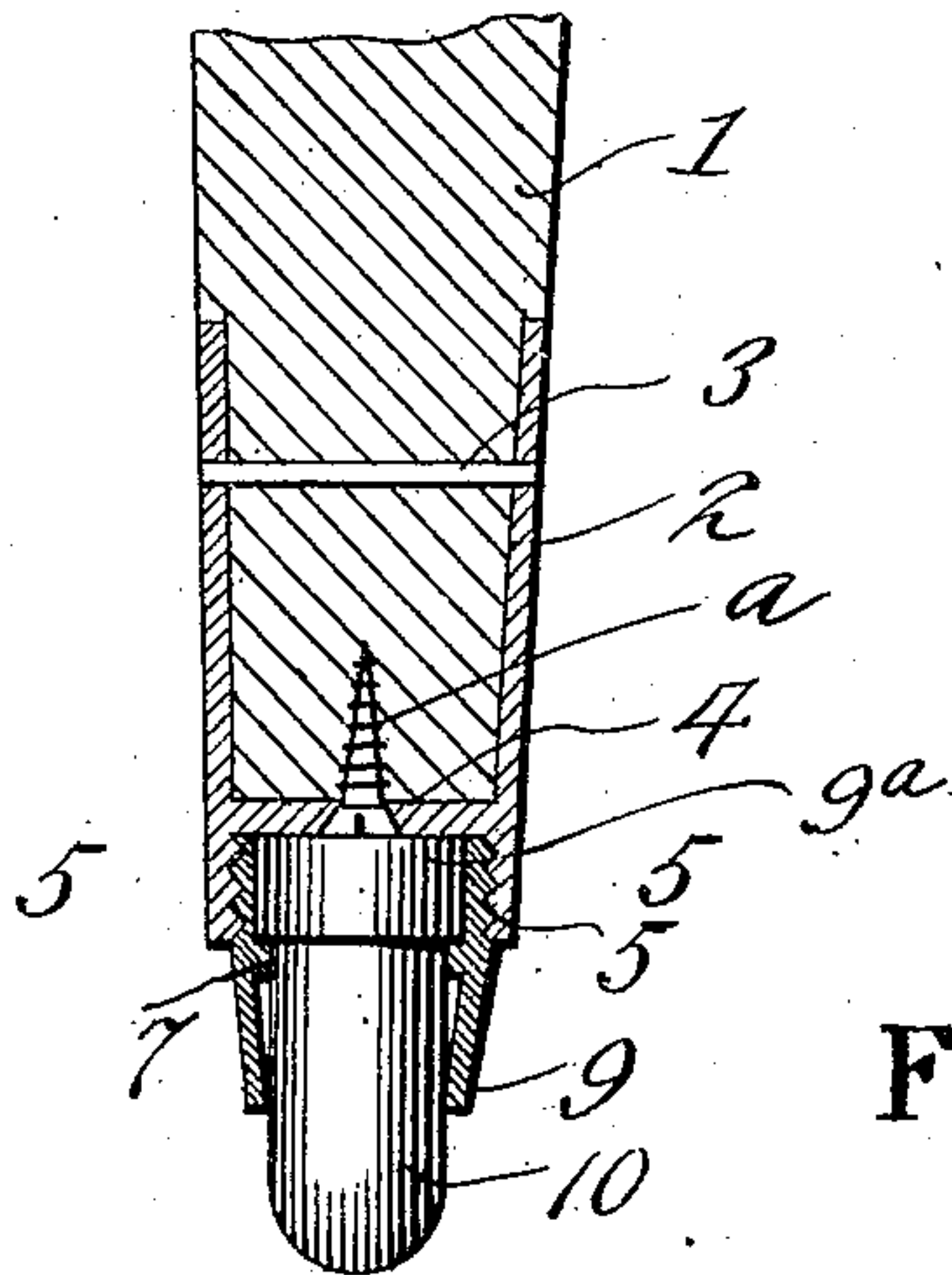


Fig. 2.

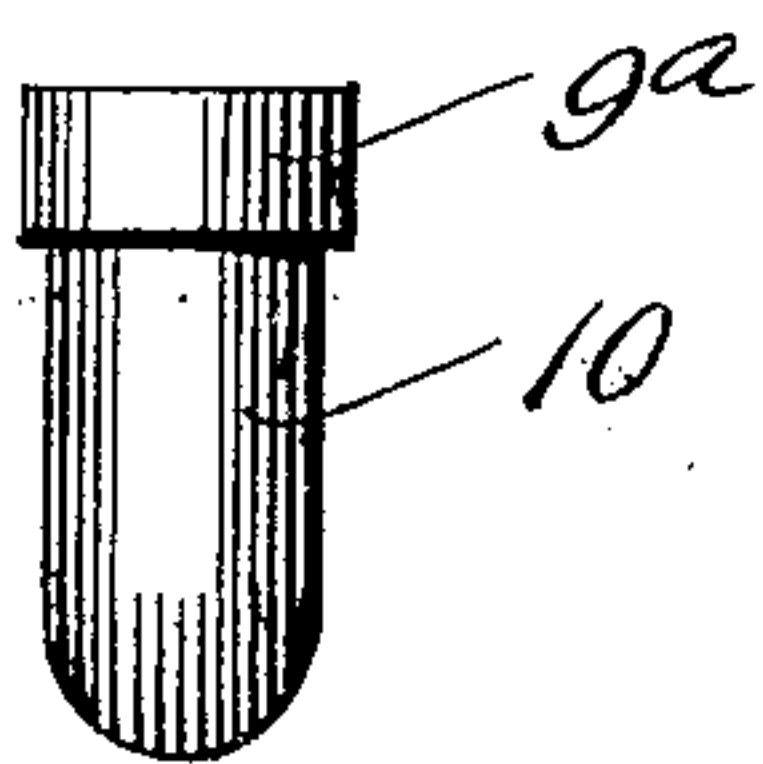


Fig. 3.

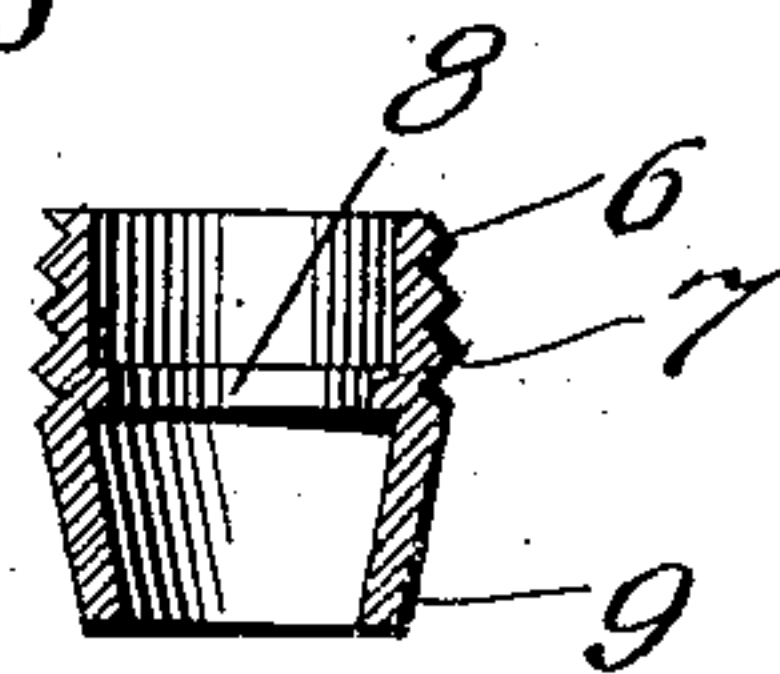


Fig. 4

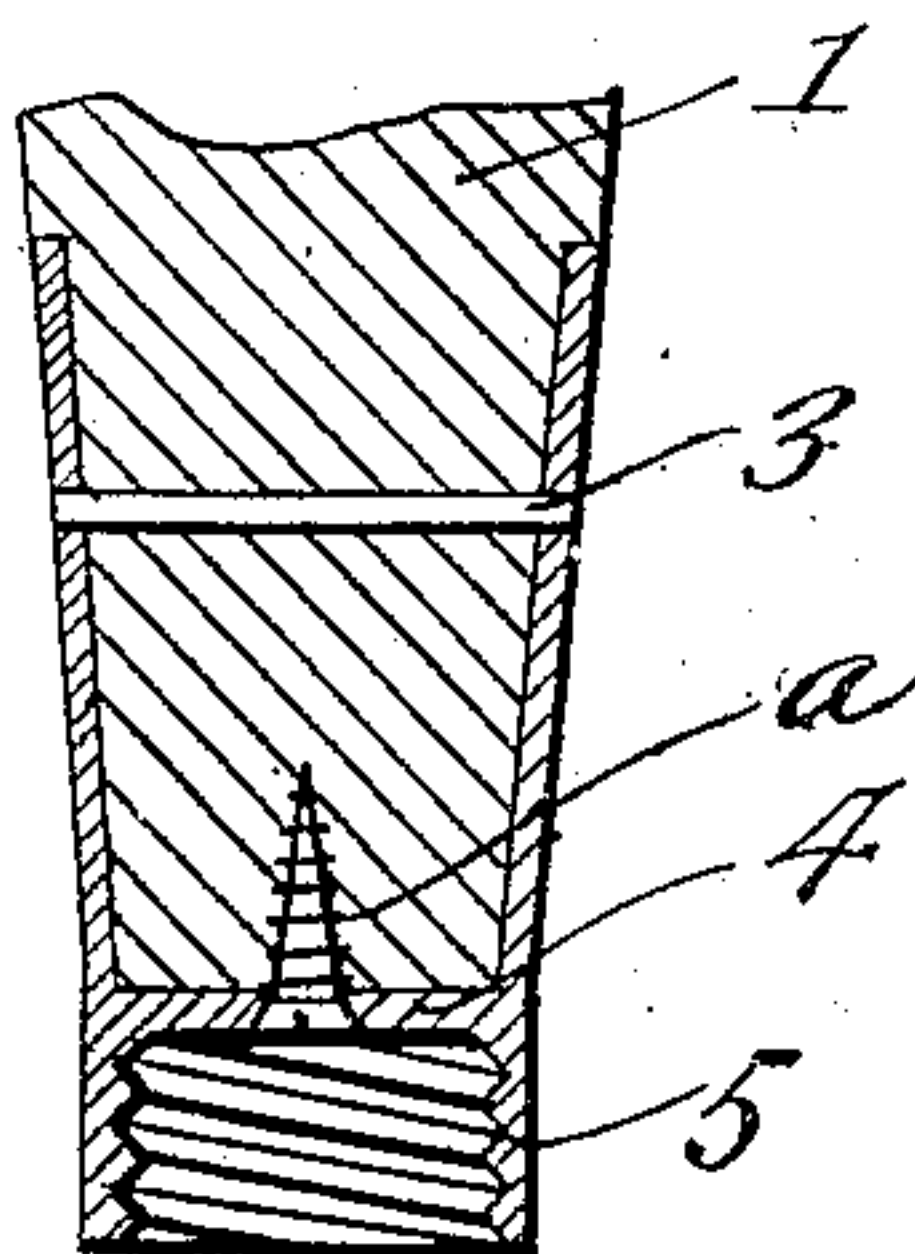
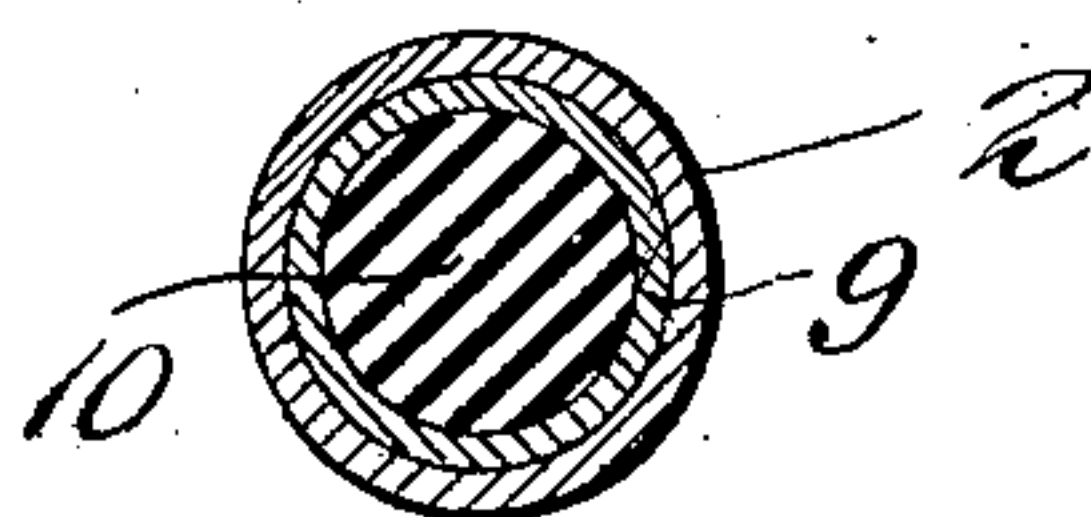


Fig. 5.



Witnesses

H. H. Ott.

*[Signature]*

Inventors

Chester A. Scott,  
Allen F. Whipple

By

Victor J. Evans

Attorney

# UNITED STATES PATENT OFFICE.

CHESTER A. SCOTT AND ALLEN F. WHIPPLE, OF FORT BRAGG, CALIFORNIA.

## DETACHABLE FERRULE.

No. 876,734.

Specification of Letters Patent.

Patented Jan. 14, 1908.

Application filed March 26, 1907. Serial No. 364,679.

*To all whom it may concern:*

Be it known that we, CHESTER A. SCOTT and ALLEN F. WHIPPLE, both citizens of the United States of America, residing at Fort Bragg, in the county of Mendocino and State of California, have invented new and useful Improvements in Detachable Ferrules, of which the following is a specification.

This invention relates to detachable ferrules for canes, crutches, and umbrellas, and one of the principal objects of the same is to provide means whereby, when the tip or buffer at the lower end of the cane, crutch or umbrella has been worn out, a new one may be readily connected to the ferrule by any person without the use of special tools.

Another object of the invention is to improve and simplify the manner of connecting rubber or other tips to the lower ends of canes, umbrellas, crutches and similar articles.

These and other objects may be attained by means of the construction illustrated in the accompanying drawing, in which:

Figure 1 is a vertical sectional view of the lower end of a cane, and showing a tip or buffer held in place by means of a detachable ferrule made in accordance with our invention. Fig. 2 is a side elevation of the tip or buffer. Fig. 3 is a detail section showing the detachable ferrule. Fig. 4 is a sectional detail view showing the socket member secured to the lower end of a cane or umbrella. Fig. 5 is a transverse sectional view on the line 5—5, Fig. 1.

Referring to the drawing for a more particular description of our invention, the numeral 1 designates the lower end of a cane or umbrella, and fitted to said lower end is the permanent member of the ferrule comprising a socket portion 2 secured to the cane or umbrella by means of a pin 3. A partition 4 near the lower end of the socket 2 provides an abutment for the lower end of the cane or umbrella. A screw hole is made through this partition, and a countersunk screw a

passes through this screw hole and firmly holds the permanent member to the end of the stick 1. Extending below said partition 4 is a tubular threaded seat 5. The detachable ferrule consists of a threaded portion 6 adapted to fit within the seat 5, said ferrule having a partition 7 provided with a central opening 8, and the lower end of the ferrule being gradually reduced or tapered, as at 9. The tip or buffer comprises a flange 9<sup>a</sup>, and a body portion 10 of less diameter than the flange, said tip or buffer being detachably fitted in the ferrule with the flange member 9<sup>a</sup> resting upon the partition 7 and with the body portion 10 projected through the opening 8, and out through the tapered portion 9. The ferrule is then attached to the seat 5 and can be readily detached by turning the ferrule to remove the buffer or tip 10.

From the foregoing it will be obvious that a detachable ferrule made in accordance with our invention may be removed from the seat for the purpose of inserting a new tip or buffer, and can be readily connected to the seat after the buffer has been dropped in place in the ferrule.

Having thus described the invention, what we claim is:

A detachable tip ferrule for canes, umbrellas, and the like, consisting of a socket member secured to the cane and provided with a threaded seat, and a detachable ferrule member provided with a partition having an opening therein, and a tip or buffer passing through the partition, and provided with a flange to rest upon said partition, said ferrule being threaded to fit the seat of the socket member.

In testimony whereof, we affix our signatures in presence of two witnesses.

CHESTER A. SCOTT.  
ALLEN F. WHIPPLE.

Witnesses:

SOL SILEN,  
FRANK ROBERTS.