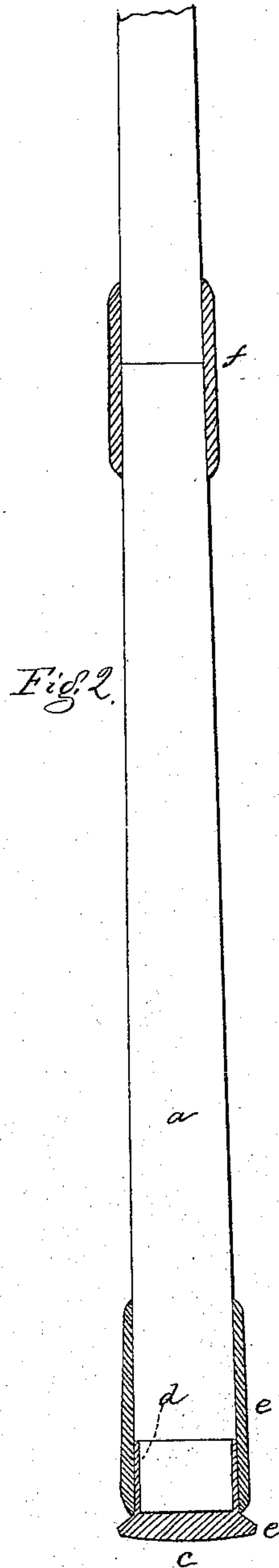
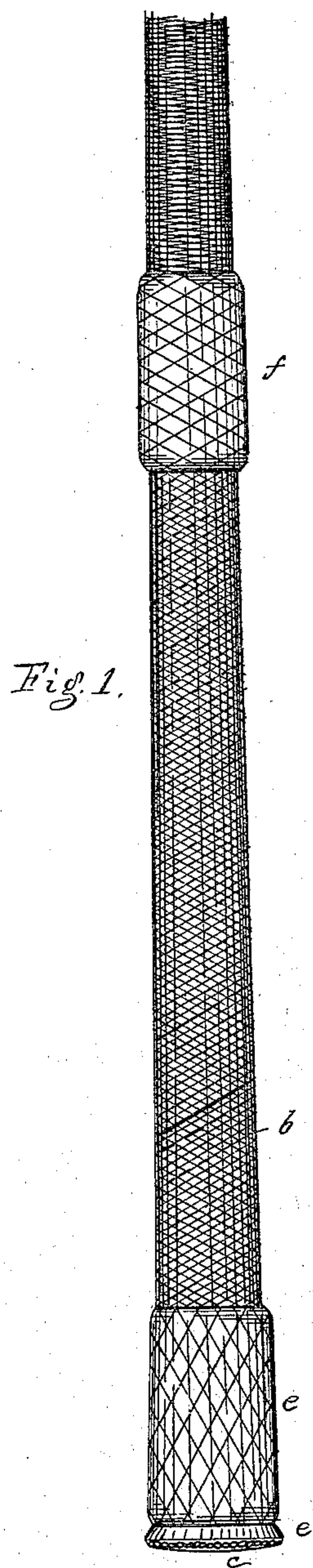


D. C. HULL.  
WHIPS.

No. 176,958

Patented May 2, 1876.



Witnesses.  
E. R. Latimer,  
W. J. Pratt.

Inventor.  
David C. Hull  
per Crosby & Morgan  
Atty

# UNITED STATES PATENT OFFICE.

DAVID C. HULL, OF WESTFIELD, MASSACHUSETTS, ASSIGNOR TO HIMSELF  
AND HENRY J. BUSH, OF SAME PLACE.

## IMPROVEMENT IN WHIPS.

Specification forming part of Letters Patent No. **176,958**, dated May 2, 1876; application filed  
April 10, 1876.

*To all whom it may concern:*

Be it known that I, DAVID C. HULL, of Westfield, in the county of Hampden and State of Massachusetts, have invented Improvements in Whips, of which the following is a specification:

This invention relates to whips, and has for its object to provide a whip with a butt and ferrule that cannot be broken or indented by careless handling, as is often the case with whips of ordinary construction, provided with horn, bone, ivory, or metallic butts or ferrules; and the invention consists in a whip provided with an india-rubber cap-like flanged butt, and with a ferrule to assist in holding the butt in position.

Figure 1 represents part of a whip-handle provided with my invention, and Fig. 2 is a section through the same.

The whip-stock *a* is covered, in any usual way, with a braided or woven covering, and its end is covered with an india-rubber butt, *c*, composed of a cap or end ferrule, *d*, and a bottom piece, provided with a flange, *e*, this butt embracing, protecting, and finishing the end of the stock, and when the whip is dropped or thrown down, as often happens, the butt will not be indented or broken, as would be the case with an ordinary metallic, horn, or ivory butt.

These butts are molded in any suitable way, and ornamented or left plain.

After the butt is placed on the handle, and caused to adhere thereto by any suitable cement, the ferrule *e'* is placed over the part *d*, and down against the flange *e*, and serves as an additional holding means for the butt, as well as an ornament for the end of the whip-handle.

This ferrule will preferably be made of india rubber, molded as a short tube, and externally ornamented when molded, so as to represent either the usual braided ferrule, or to represent any other desired design.

Instead of the india-rubber ferrule, I may employ the usual braided ferrule over the cap-like end *d* of the butt.

The ferrule at *f* may be either of molded rubber or braided.

I claim—

As an improved article of manufacture, a whip provided with a molded india-rubber butt and a ferrule, to embrace and retain the butt on the end of the whip, all combined as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DAVID C. HULL.

Witnesses:

A. L. BUSH,  
C. A. WHEATON.