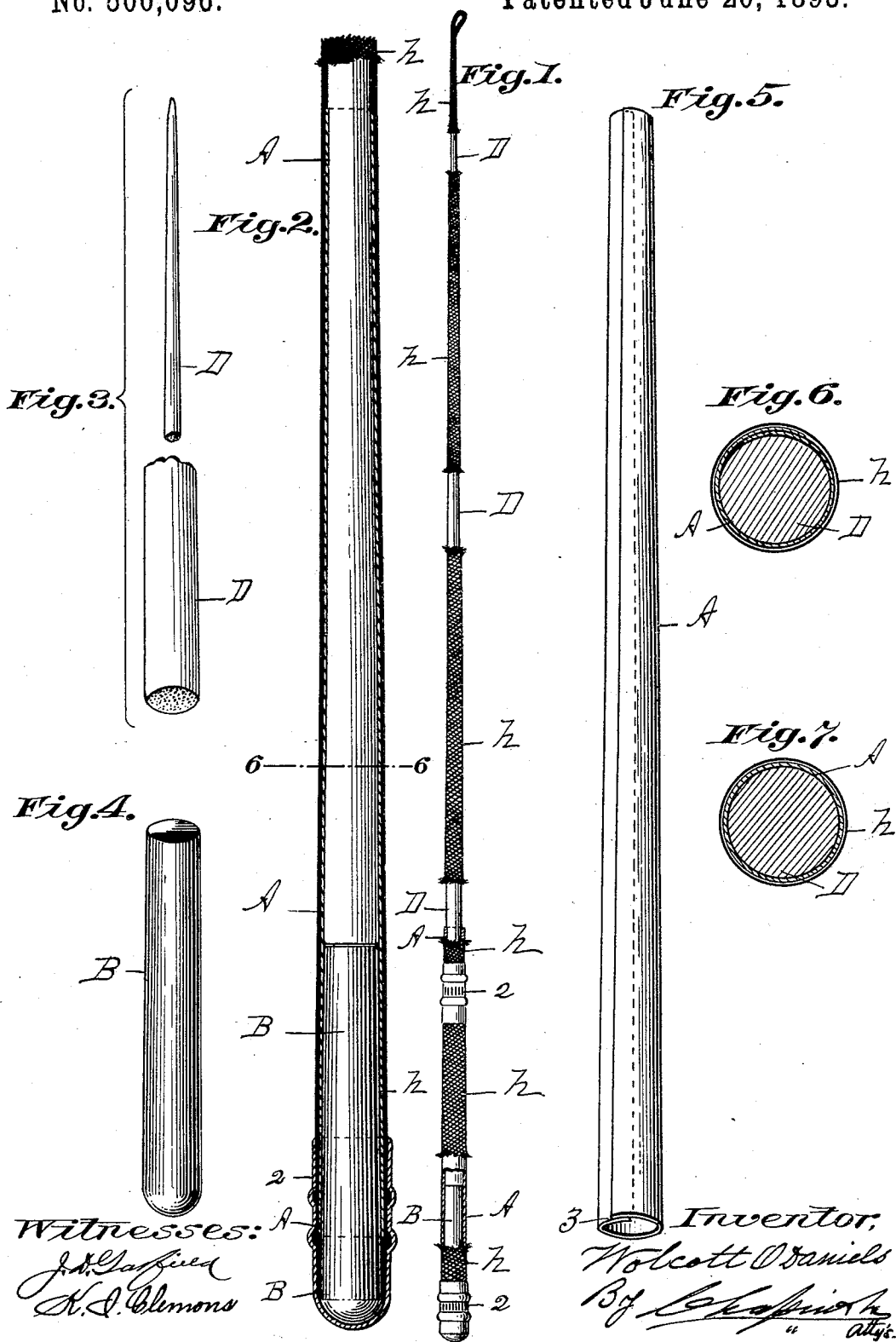


(No Model.)

W. O. DANIELS.
WHIP.

No. 500,096.

Patented June 20, 1893.



Witnesses:

John Garfield
H. S. Clemons

Inventor,
Wolcott Daniels
By *Chapman*
Attys.

UNITED STATES PATENT OFFICE.

WOLCOTT O. DANIELS, OF WESTFIELD, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO ANDREW L. BUSH, OF SAME PLACE.

WHIP.

SPECIFICATION forming part of Letters Patent No. 500,096, dated June 20, 1893.

Application filed March 2, 1893. Serial No. 464,326. (No model.)

To all whom it may concern:

Be it known that I, WOLCOTT O. DANIELS, a citizen of the United States, residing at Westfield, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Whips, of which the following is a specification.

This application relates to whips, the object being to provide novel means for constructing a whip of fine quality, but embodying structural elements of such nature that a whip combining the same is produced more economically than has heretofore been possible.

In the drawings forming part of this specification, Figure 1 is a side elevation of a whip embodying my improvements, said figure showing the covering thereof removed at several places between the handle and the tip; and having a portion of said covering near the butt of the whip removed, and a part of the directly underlying structural part of the whip at that point, shown in section. Fig. 2 is a vertical section of the whip handle shell or case, and the covering, the elements contained in said shell being shown in side elevation. Fig. 3 is a side elevation showing the extremities of the whip-body. Fig. 4 is a perspective view of the metallic load-piece of the handle. Fig. 5 is a perspective view of said shell or case. Fig. 6 is an enlarged section on the line 6—6, Fig. 2. Fig. 7 is a similar view to Fig. 6, but illustrating the shell part of the whip, of a modified construction.

The whip, herein shown, consists of the below-described elements, which are contained within the covering thereof, viz:—A tubular handle shell, A, a metal load piece, B, and a whip-stock in one piece, D. The said tubular shell, A, constitutes the base of the handle-portion of the whip, a receptacle for the lower portion of the whip-stock, D, and the metal load-piece, B, and is made, preferably, of tin or other suitable sheet metal rolled to a tapering, cylindrical form, the end for the butt of the whip being the larger one, and having, preferably, a lap-joint 3, as shown, the edges thereat being unattached. The object in making said shell, A, tubular and of tapering form, is, to adapt it to receive within it the rough, unfinished lower part of the stock, D,

and to receive the metallic load piece, B, in its lower end, and generally to impart a desirable proper form or contour to the finished whip handle. Said shell A should of course be sufficiently rigid to retain the metal load piece B in line with the whipstock D. The object of making said shell, A, with a lap-joint whose edges are unattached, is, to adapt it to expand sufficiently to receive the larger end of any ordinary rough rattan or wooden whip stock, and to be wrapped closely around said stock and load-piece (though the stock be of less diameter than the interior of the shell) by the binding action of the plaited covering when the latter is applied thereto in the usual manner. Also, the employment of said tube, A, of proper form to constitute the handle-part of the whip, rather than to provide a large, built-up rattan handle as a part of the stock, effects an essential saving in cost of manufacture. For economical reasons as to first cost and because it possesses all requisite qualities of flexibility and strength, the whip-stock, D, consists, preferably, of a single stick of rattan or similar material. The said rattan stick is preferable, however, for the reason that it requires no expenditure of time or money for preparing it to be used in the whip, but it is used in the whip in exactly the rough condition in which it is imported. The said whip-covering, indicated by *h*, in the drawings, is of any suitable description, but preferably one consisting of strong thread plaited thereon in the usual manner, and having the usual external varnish and oil finish. Said plaited covering, *h*, may have a paper or any other suitable lining thereunder. The usual ornamental buttons, 2, are applied to the whip, substantially as shown.

In the construction of the within described whip, the said parts are assembled preferably as follows: The tubular shell, A, has a little cement applied to its interior to cause a more firm union of the stock therewith, and is then placed on the lower end of the stock, D, but extending sufficiently below the lower end of the latter, (as shown in Fig. 1) to permit the metallic load-piece, B, to be placed therein, substantially as shown in Fig. 2, leaving the spherical extremity of said load-piece projecting more or less beyond the larger end of the

shell, A. The said lining to the plaited covering is then applied to the surfaces of said shell and stock, and the said plaited covering is then applied over the lining. The whip is then varnished, rolled, and otherwise exteriorly finished as usual. In Fig. 7 is shown the said modification of the construction of the shell, A, which modification may consist in making said tube seamless but otherwise as above set forth.

A careful consideration of the whip-construction above set forth will show conclusively the economy thereof, as compared with that of the ordinary rattan whip whose rattan stock consists of a center, four pieces of sidings, and four chink pieces, all of which nine pieces must be first separately formed, then glued together and then rounded. All of which labor is obviated in the whip herein described.

What I claim as my invention is—

1. A whip having a stock consisting of a single piece of rattan or analogous flexible material, a tubular sheet metal shell of tapering form receiving the handle portion of said stock, and having unattached edges at its seam, a metallic load-piece entering one end of said shell, and an outer covering for said shell and stock compressing and wrapping said shell tightly upon the latter, substantially as set forth.

2. The whip described consisting essentially of the stock in one piece, the metal load piece in line therewith, the tubular metal hand shell inclosing the adjacent ends of the stock and load piece and retaining the same in alignment, and the usual outer covering binding all said parts, substantially as described.

WOLCOTT O. DANIELS.

Witnesses:

H. A. CHAPIN,
K. I. CLEMONS.