

(No Model.)

W. E. JEWELL.
WHIP.

No. 462,711.

Patented Nov. 10, 1891.

Fig 1

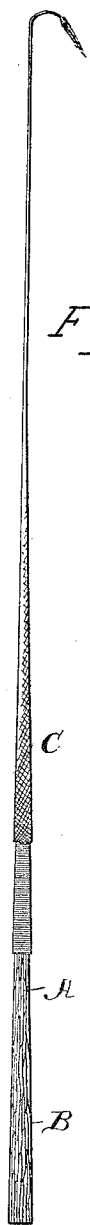
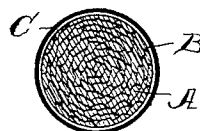


Fig 2



Fig 3



WITNESSES
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WILLIAM E. JEWELL, OF BELDING, MICHIGAN, ASSIGNOR TO FRED E. KING,
OF SAME PLACE.

WHIP.

SPECIFICATION forming part of Letters Patent No. 462,711, dated November 10, 1891.

Application filed April 2, 1891. Serial No. 387,345. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. JEWELL, a citizen of the United States, residing at Belding, in the county of Ionia and State of Michigan, have invented certain new and useful Improvements in Whips; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in whips; and the object of the invention is the production of a whip which will be superior to whips in general use in point of cheapness and durability, which will withstand the hard usage to which it is subjected and retain its shape, which will be more flexible and elastic, and which can be made of attractive appearance.

To attain the desired object the invention consists of a whip the main or body portion of which is composed of what is known as "horn-bone," constructed substantially as illustrated, described, and specifically defined by the claim.

Figure 1 represents an elevation of a whip constructed in accordance with my invention, partly broken away to illustrate how the body portion is formed. Fig. 2 represents an elevation of the body portion, and Fig. 3 represents a sectional view.

My improved whip is composed of slivers or pieces of horn-bone A, which are arranged to form the body B and are wrapped and in-

closed in a cover C; or the pieces of material may be formed into a body and cemented together without departing from the spirit of my invention. At present these pieces of horn-bone are considered worthless; but by my invention they are utilized to produce a whip which is far superior to the whips in common use. It will be understood that these slivers or pieces of horn-bone are bundled and secured together in such manner as to give the proper or tapering shape to the whip, as is evident. The pieces or slivers of horn-bone are of any length, shape, and thickness, and when I secure them by binding I secure first a few pieces, then add to these, and wind them, thus binding the slivers in layers and making a whip which is of the greatest possible strength and durability. When the slivers are secured by cement, I fill all the interstices or spaces between the slivers and retain them in a solid body. A whip made of horn-bone has the proper amount of elasticity, but is not likely to be too elastic.

I claim as my invention—

As an improved article of manufacture, a whip having a case made up of slivers or short pieces of horn-bone and secured, as applied to each other, by a binding-wrapping extending through and through the said case, substantially as described.

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

WILLIAM E. JEWELL.

Witnesses:

WILLIAM JAY WILSON,
CHAS. R. FOOTE.

Corrections in Letters Patent No. 462,711.

It is hereby certified that in Letters Patent No. 462,711, granted November 10, 1891, upon the application of William E. Jewell, of Belding, Michigan, for an improvement in "Whips," errors appear in the printed specification requiring correction, as follows: In lines 63 and 66, page 1, the word "case" should read *core*; and that the said Letters Patent should be read with these corrections therein that the same may conform to the record of the case in the Patent Office.

Signed, countersigned, and sealed this 24th day of November, A. D. 1891.

[SEAL.]

CYRUS BUSSEY,

Assistant Secretary of the Interior.

Countersigned:

W. E. SIMONDS,

Commissioner of Patents.