

(No Model.)

P. S. HARRINGTON.

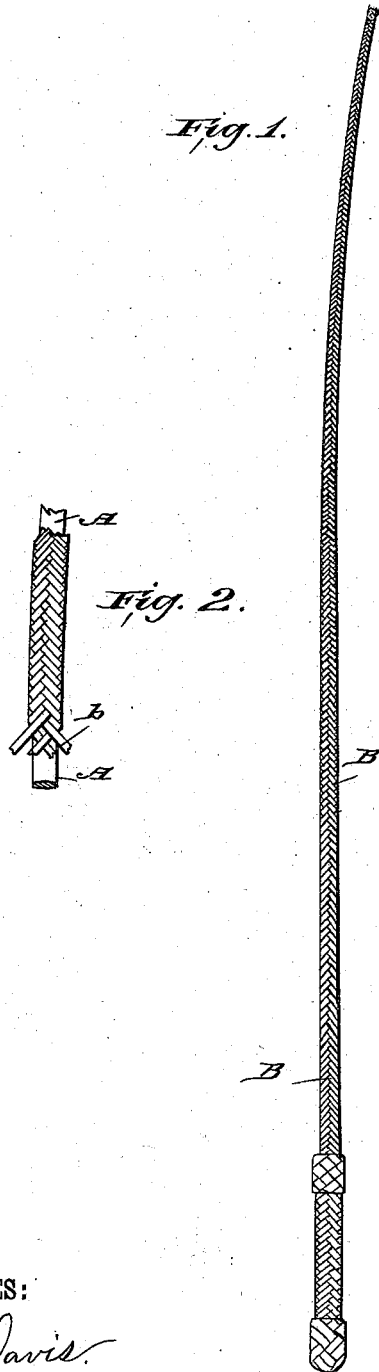
WHIP.

No. 382,258.

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Fig. 1.

Fig. 2.



WITNESSES:

W. R. Davis.
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WHIP.

SPECIFICATION forming part of Letters Patent No. 382,258, dated May 1, 1888.

Application filed September 3, 1887. Serial No. 248,692. (No model.)

To all whom it may concern:

Be it known that I, PATRICK S. HARRINGTON, of Cheyenne, in the county of Laramie and Territory of Wyoming, have invented a certain new and useful Improvement in Whips, of which the following is a full, clear, and exact description.

My invention relates to an improvement in the process of manufacturing whips, and has for its object to so improve the construction as that the whips cannot be broken in any use to which a whip is usually applied, wherein it will always preserve its shape, and will not swell or be otherwise affected by moisture or changes of temperature.

The invention consists in wrapping an elastic stock with rawhide, and in the method of treating the hide before applying to the stock, and also in the construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is an elevation of the whip, and Fig. 2 is a sectional portion of the same.

The prime object of the present invention is to make a whip which shall be more elastic than ordinary whips, and which cannot be broken as aforesaid by any use to which whips are usually applied; and the further object of the invention is to secure strength and durability.

In carrying out the manufacture of the whip an elastic stock, A, is first selected—of rattan, whalebone, feather bone, or rawhide—and the said stock is reduced to a tapering form, the length and thickness to be determined by the character of the whip of which it is to form the core. The next step is to render the tapering core or stock more elastic, so that it will always retain its shape, and to strengthen the core or stock, so that it cannot be broken by any ordinary or even rough usage, and to

make the whip water-proof. Each of these properties or qualities is accomplished by one and the same operation—namely, by braiding rawhide over the core or stock, as shown at B.

Before applying the rawhide it is subjected to the following process, viz: the rawhide is wet and then heated and allowed to sweat slowly. This renders it in such a condition as to be readily cut in thin strings *b*. When the rawhide is thus treated, the strings will stretch far more than by simply wetting them, and will consequently shrink much more. In this extremely elastic condition the several strings are braided around the stock—six, eight, or twelve in all—each pulling in an adverse direction from the other; consequently, when the whip is bent it must necessarily assume its upright position.

The braided rawhide strengthens the whip because of the reason stated above, and, as the rawhide is braided, the adverse tension of each strand makes the stock bend in easy curves and prevents the abrupt bends, which are invariably the cause of breakage in whips.

Rawhide as thus prepared and applied to a whip is not affected by moisture, and a whip is produced of superior finish and utility.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The herein-described process of treating rawhide for covering whips, which consists in wetting the hide, heating the same, allowing it to sweat slowly, and then cutting the hide into strips, substantially as shown and described.

2. As an improvement in whips, the combination, with an elastic stock or core, of strips of rawhide prepared as herein described, and braided upon said stock, as set forth.

PATRICK S. HARRINGTON.

Witnesses:

WILLIS VAN DEVANTER,
FREDERIC S. HEBARD.