

(No Model.)

A. C. RAND.

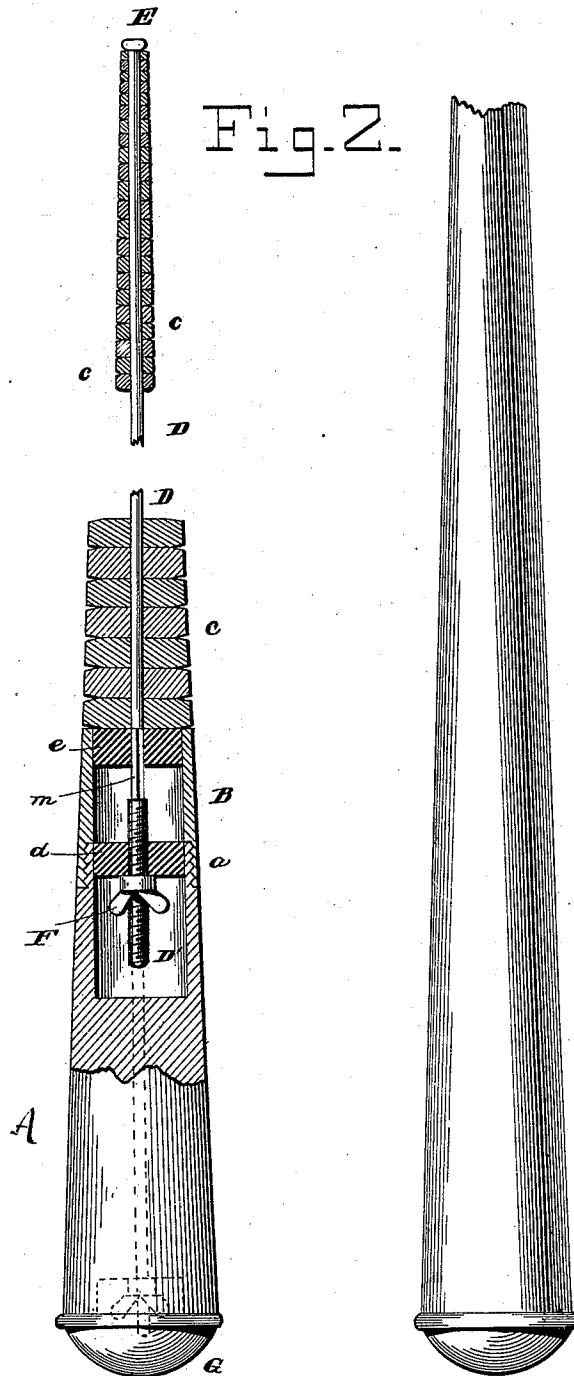
WHIP.

No. 297,006

Patented Apr. 15, 1884.

Fig. 1.

Fig. 2.



WITNESSES

Edwin L. Jewell.
J. J. McCarthy.

INVENTOR

Alonzo C. Rand,
By [Signature]
Attorney

UNITED STATES PATENT OFFICE.

ALONZO C. RAND, OF MINNEAPOLIS, MINNESOTA.

WHIP.

SPECIFICATION forming part of Letters Patent No. 297,006, dated April 15, 1884.

Application filed February 18, 1884. (No model.)

To all whom it may concern:

Be it known that I, ALONZO C. RAND, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Whips, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates more particularly to the construction of driving and riding whips; and the object I have in view is to form a whip of disks, or buttons, or sections which have a flexible core passed through their centers, said core having a button secured or formed upon it at one end, and provided with a screw-thread upon an enlargement at the other, adapted to be used with a thumb-screw, whereby the core may be kept taut to press the buttons together, as will be hereinafter more particularly described with reference to a wire core.

In the accompanying drawings, making part of this specification, Figure 1 represents a longitudinal section divided, and Fig. 2 a plan view of a portion of a finished whip.

In the figures, A and B represent a whip-handle in two parts or sections, one section having a male and the other a female screw, as seen at *a*, for the purpose of securing them together. Each section is made hollow a portion of the way. Section A is provided with a partition, *d*, and section B with a partition, *e*.

D represents a small steel wire, which passes from a point within the handle through the whip-stock to its small end, where the cracker is attached. This wire has a metal button, E, secured upon its outer end. The end within the handle is enlarged in any suitable manner sufficiently to have a secure screw-thread formed upon it. This wire passes through the partitions *d* and *e*. That portion which passes through partition *e* is made square, so that it cannot turn, being passed through a square hole in the partition adapted to receive it. The enlarged portion D' passes through an opening in partition *d* made to suit it, and a thumb-screw, F, is passed over it.

c c c represent a series of disks or buttons, half an inch (more or less) in diameter, which are made of wood, or leather, or paper, or other suitable material. These disks have holes

through their centers, through which the wire passes. Their edges are slightly beveled on each side near their peripheries, so that when secured together a small V-shaped groove is formed between each pair.

In making the whip the disks of proper taper are placed over the wire, and then the button E is secured upon its end. By the use of the set-screw F the disks are drawn closely together and the wire is made as taut as desirable. The grooves between the disks are now filled with a rubber or other suitable preparation, and then dipped in a rubber solution. The whip is then placed under suitable finishing-rollers and finished up in any of the well-known and usual ways.

I do not confine myself to any particular substance for finishing the outside or for closing the grooves between the disks.

Instead of using the handle constructed as described, I may make it of one piece only and pass the wire through it, as seen in dotted line, simply forming a recess in the butt of the whip to contain the enlarged end of the wire and its thumb-screw. The butt would in this instance be provided with a screw-cap to cover the thumb-screw and make a finish. The body of the whip, by this construction, may, if desirable, be made no greater in diameter than that of an ordinary lead-pencil.

When wire is used, it may be rolled in a tapering form.

The stock or body of the whip may be molded of paper or wood or other pulp, and then lateral kerfs made a suitable distance apart, nearly to the opening for the wire, thus forming buttons, the space between which is to be filled with rubber or other suitable preparation and finished as before stated.

The wire will be so small as to add but little weight, while great elasticity, strength, lightness, and durability are attained.

Catgut or silk, or any very strong fibrous material, may be used in place of wire.

Walking-canes and fishing-rods may be constructed in like manner.

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

1. A whip stock or body having an independent core or center which is capable of be-

ing given tension, longitudinally to the stock, by means substantially as described, and adapted for the purpose set forth.

2. A whip stock or body composed of sections bound together by means of an independent core which passes through them, and which is provided with an enlarged threaded end, and a nut adapted to secure the parts firmly to-

gether and keep the whip taut, yet still elastic, substantially as set forth.

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

ALONZO C. RAND.

Witnesses:

J. J. McCARTHY,

C. D. DAVIS.