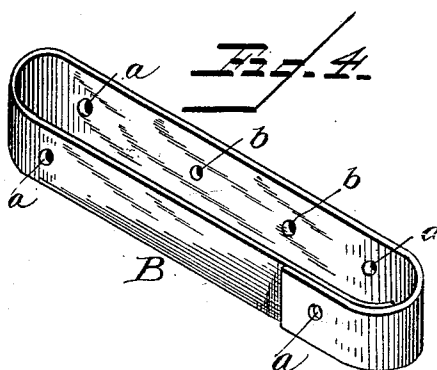
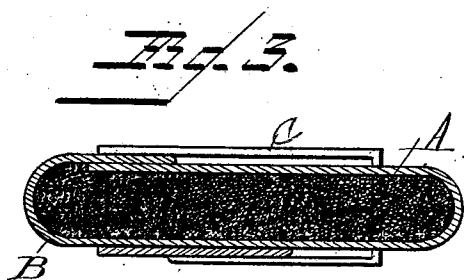
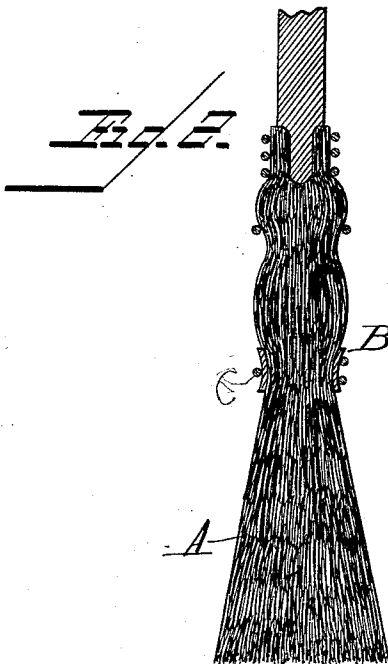
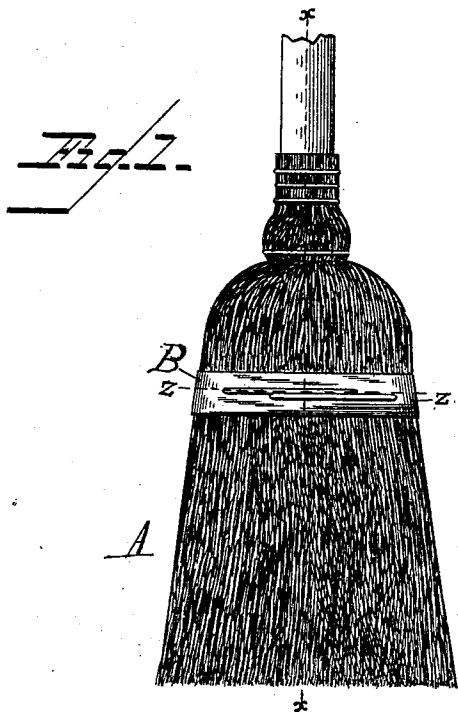


(No Model.)

A. STEPHEN.
MANUFACTURE OF BROOMS.

No. 513,837.

Patented Jan. 30, 1894.



WITNESSES:
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UNITED STATES PATENT OFFICE.

ANDREW STEPHEN, OF RUSHVILLE, NEBRASKA.

MANUFACTURE OF BROOMS.

SPECIFICATION forming part of Letters Patent No. 513,837, dated January 30, 1894.

Application filed July 15, 1893. Serial No. 480,792. (No model.)

To all whom it may concern:

Be it known that I, ANDREW STEPHEN, a citizen of the United States, residing at Rushville, in the county of Sheridan and State of Nebraska, have invented certain new and useful Improvements in the Manufacture of Brooms, of which the following is a full, clear, and exact description.

The present invention is designed as an improvement on the invention for which Letters Patent were granted to me May 15, 1877, No. 190,726, and it consists in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a broom constructed in accordance with my invention. Fig. 2 is a vertical section on the line *x, x*, Fig. 1. Fig. 3 is a horizontal section on the line *z, z*, Fig. 1. Fig. 4 is a view of the wire staple detached.

My invention consists essentially in the combination with a broom head and a metal band, encircling the same and formed with apertures, and the ends of said band overlapping each other, of a wire staple the ends of which pass through the end apertures in said band said ends being then bent and inserted through the intermediate apertures of said band, and forced through the broom head till they contact with said band when they are bent over and clinched.

In the said drawings, the reference letter A designates the broom head, which may be of any ordinary or suitable construction, and B the metal band encircling the same and formed

with end apertures *a* and intermediate apertures *b*. The ends of this band overlap each other, as seen more clearly in Fig. 5.

The letter C designates the staple, having its ends *c*, bent at right angles to the body portion. These ends are inserted through the apertures *a*, in the band and then bent inwardly and inserted in the apertures *b*. They are then forced through the broom head and striking against the imperforate portion of band B, are bent or clinched as seen more clearly in Fig. 5.

Having thus described my invention, what I claim is—

The combination with a broom head, of the bridle consisting of a single piece of metal bent over so as to encircle said head with its ends overlapping, and formed with aligned apertures at the ends and intermediate apertures on one side only, and the staple consisting of a single piece of wire the ends of which are passed through said aligned apertures and then carried over passing each other and inserted through the intermediate apertures and forced through the broom head until they strike the imperforate portion of the bridle where they are clinched, substantially as and for the purpose specified.

In testimony that I claim the foregoing as my own invention I affix my signature hereto in presence of two witnesses.

ANDREW STEPHEN.

Witnesses:

GEO. B. JACK,
ELMER E. RANDALL.