

A. STEPHEN.
BROOMS.

No. 190,726,

Patented May 15, 1877.

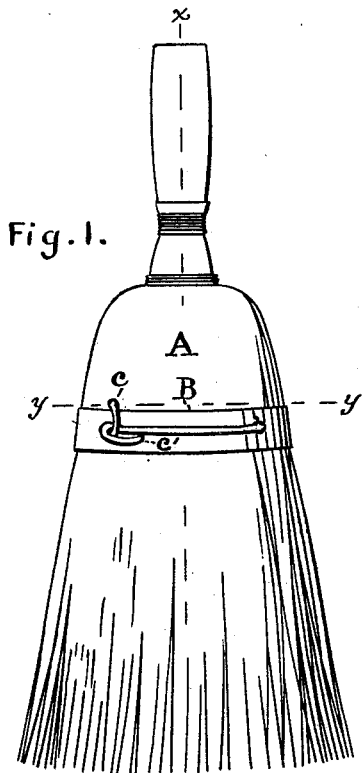


Fig. 1.

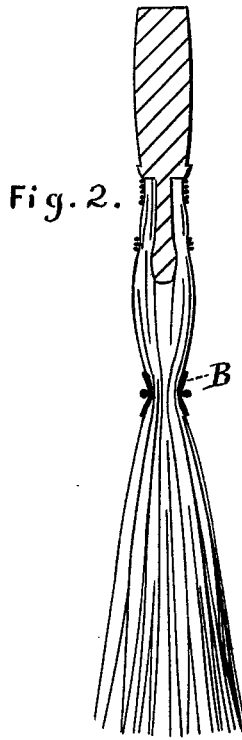


Fig. 2.

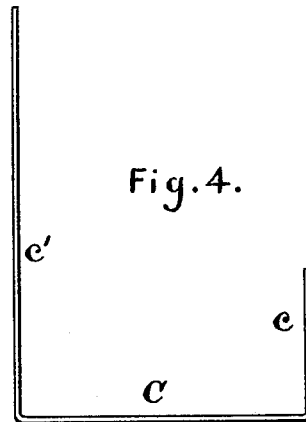


Fig. 4.

Fig. 3.

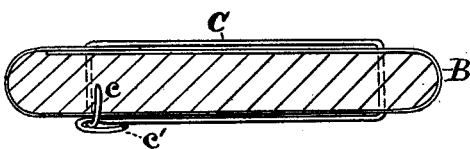
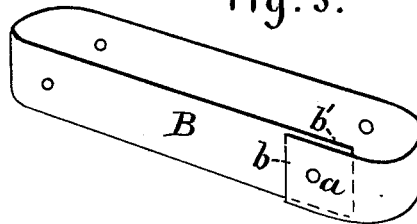


Fig. 5.



Witnesses :

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UNITED STATES PATENT OFFICE.

ANDREW STEPHEN, OF CLINTON, IOWA.

IMPROVEMENT IN BROOMS.

Specification forming part of Letters Patent No. **190,726**, dated May 15, 1877; application filed April 19, 1877.

To all whom it may concern :

Be it known that I, ANDREW STEPHEN, of Clinton city, in the county of Clinton and State of Iowa, have invented certain new and useful Improvements in the Manufacture of Brooms; and I do hereby declare that the following is a full, clear, and exact description thereof, which 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.

Figure 1 is a side view. Fig. 2 is a vertical section on line *xx* of Fig. 1. Fig. 3 is a transverse section on line *yy* of Fig. 1. Fig. 4 is a view of the wire staple detached. Fig. 5 is a perspective view of the band detached.

My invention relates to the manufacture of brooms, and consists of a band of sheet metal, with lapped ends, punctured to receive a wire staple inserted through the band adjusted on the broom-head, the ends of the staple being interlocked and clinched to securely bind the head of the broom, as hereinafter more fully described.

A is the broom, fastened to the handle in the usual way. B is a band of sheet metal, having its ends *b b'* lapped and provided with holes to receive the wire staple. The hole at *a* through the lapped ends is formed by a prick-punch, which forces the rough edges of the

metal of the outer end over the inner end, which edges, being hammered down on an anvil, hold the ends of the band together, while it is adjusted in position, on the broom-head, to receive the wire staple. C is a wire staple, having one short prong, *c*, and a long prong, *c'*, bent at right angles to the middle of the wire as shown in Fig. 4 of the drawings.

The band being adjusted in position on the broom-head, the prongs of the staple are inserted through the holes in the plate and through the broom, and the prong *c'* is bent down and interlocked with the end of the prong *c*, and the broom is then pressed in the vise, clinching the ends of the wires, and embedding the wire in depressions in the sides of the plate, as shown in the drawings.

What I claim as new, and desire to secure by Letters Patent, is—

The combination of the band B, having a lap-joint at the ends of the band, and the staple C, having prongs *c c'*, adjusted and fastened on the broom, substantially as and for the purposes described.

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

ANDREW STEPHEN.

Witnesses:

WM. W. SANBORN,
JAMES STEPHEN.