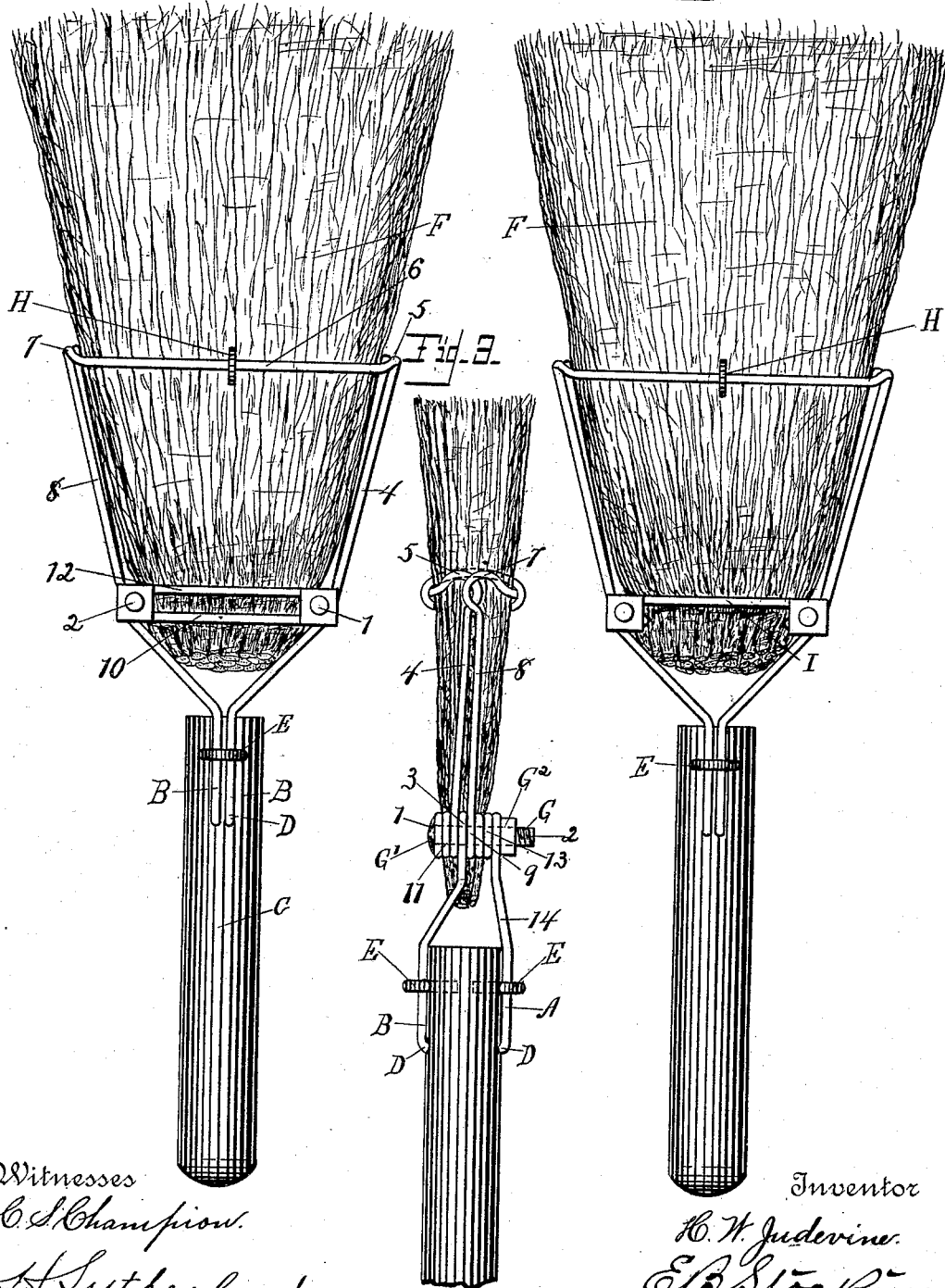


H. W. JUDEVINE.
WHISK BROOM FASTENER.

Patented Mar. 11, 1890.

Fig 1.

Id. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

HENRY W. JUDEVINE, OF EDGAR SPRINGS, MISSOURI.

WHISK-BROOM FASTENER.

SPECIFICATION forming part of Letters Patent No. 423,167, dated March 11, 1890.

Application filed February 23, 1889. Serial No. 300,882. (Model.)

To all whom it may concern:

Be it known that I, HENRY W. JUDEVINE, a citizen of the United States, residing at Edgar Springs, in the county of Phelps, State of Missouri, have invented certain new and useful Improvements in Whisk-Broom Fasteners, of which the following is a specification, reference being had therein to the accompanying drawings.

The object of my invention is to provide a cheap and easily-adjusted fastening for the straws of a whisk-broom and one which can be easily removed from an old handle and put onto another one, or from which the old straws may be easily taken and new ones put in.

To this end I construct my whisk-broom fastener as described in the following specification, the novel features of the same being particularly pointed out in the claims at the end of the same.

In the drawings, Figure 1 is a side elevation of my preferred form of whisk-broom holder. Fig. 2 is a side elevation of a modification of the same in which less wire is employed. Fig. 3 is an end elevation of the preferred form shown in Fig. 1. Fig. 1, taken in connection with Fig. 3, will enable any one to follow out the course taken by the wire in the construction of this form of fastener.

My holder is composed, principally, of two wires A and B, held to the handle C by means of entering ends at D and surrounding staples at E. These last enter the handle, as shown in dotted lines in Fig. 3, and nearly meet in the center of the same.

The straws F are held in place by the convolutions of the wires in the manner hereinafter described, and at the end of the bundle of straws are placed the pins G, screw-threaded, as shown in Fig. 3, having a head G' at one end and a nut G² screwed onto the other end for the purpose hereinafter described. The screw-threaded ends project outward on the same side of the whisk-broom, and as the convolutions of the two wires are exactly the same on either side of the broom, the screw end of the pin in Fig. 3 may be employed in tracing the convolutions of the wire on that end of the bundle of straws opposite to that on which the headed end of said pin is situated, but on the same side of the same—

that is to say, the end marked 2 of the pin in Fig. 3 corresponds, as far as the convolutions of the wire are concerned, with the position 2 in Fig. 1, and the end marked 1 in Fig. 3 with that correspondingly marked in Fig. 1.

Tracing the wire B then, it leaves the handles C at D, and, passing upward through the staple E, rises to the pin G. Here it makes one coil around said pin, as shown in Fig. 3, at 3, and thence rising to a point part way up the brush, where it makes an outward turn at 5, after having risen through the distance 4. Beyond this turn the wire crosses the face of the brush, as at 6, makes an inward turn at 7, (Figs. 1 and 3,) and descends through the distance 8 to the pin G. Here it takes one coil around said pin, as at 9, leaving the same at an under tangency, and going to the pin G on the other end of the brush, as at 10, Fig. 1. Here it takes another coil at 11, Fig. 3, and returns from an upper tangency, as at 12, to the other pin G, in position 2. The last coil around this pin is then made, as at 13, and the wire then descends through the staple E to enter the handle at D in position 2, the wire only entering the handle and not passing through the same. This is my preferred form, but upon reaching the handle at D in position 2 the wire may pass through the handle and follow out the same convolutions on the other side of the handle in wire A. The wire is so made that its own resiliency tends to keep the two sections together and compact the straws; but in order to further this arrangement I provide a link H, which passes between the straws of the brush and hooks over the two wires, as plainly shown in Fig. 3.

A modification of my invention is shown at Fig. 2, where the features shown at 10, 11, 12, and 13 are omitted and an extra wire is used on either side, as shown at I in Fig. 2. This wire takes a turn over each pin G, for the same purpose as the coils 11 and 13 and the strands 10 and 12 in Figs. 1 and 3. The wire having been thus wound loosely upon the pins G, the straws are introduced between the strands 10 and 12 on either side of the brush, and the nuts G² having been put upon the ends of the pins they are screwed on tightly, thus compressing the straws between said strands and holding them fast. The links H

are then introduced and the brush is completed.

Of course minor details of construction—such as the number of times the wires are coiled around the end pins—may be varied without departing from the spirit of my invention, and I do not wish to be understood as limiting myself to the exact details as shown and described.

10 What I claim is—

1. In a whisk-broom, the two pins G and wire wound around the same and extending from one to the other, said pins being arranged between the handle and the bands embracing the straws, in combination with straws confined between the two sides of said wire, substantially as described.

2. In a whisk-broom, the pins screw-threaded at one end, wire wound around said bolts and extending from one to the other, and straws held between the two sides of said wire, in combination with nuts adapted to be screwed onto said pins, substantially as and for the purposes specified.

25 3. In a whisk-broom, the handle, the pins G, having one end of each screw-threaded, wire wound around said pins, extending between them and fastened to said handle, and straws between the two sides of said wire, in combination with nuts adapted to be screwed onto

the end of said pins, substantially as and for the purposes specified.

4. In a whisk-broom, the handle, the pins G, having one end of each screw-threaded, wires wound around said pins, extending between them and entering said handle, staples entering said handle and clasping said wires, and straws held between the two sides of said wires, in combination with nuts adapted to be screwed onto the ends of said pins, and a link extending over the top strand between said pins, substantially as described.

5. In a whisk-broom, a handle, the pins G, screw-threaded at one end, and the wires, one for each side, making the convolutions described, viz., the coil 3, the upward extension 4, the loop 5, the cross-strand 6, the loop 7, the downward extension 8, the coil 9, the under strand 10, the coil 11, the middle strand 12, the coil 13, in combination with straws between said wires, and nuts adapted to be screwed upon the ends of said pins, substantially as and for the purposes specified.

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

HENRY W. JUDEVINE.

Witnesses:

E. C. CURTIS,

O. P. MARGEDANT.