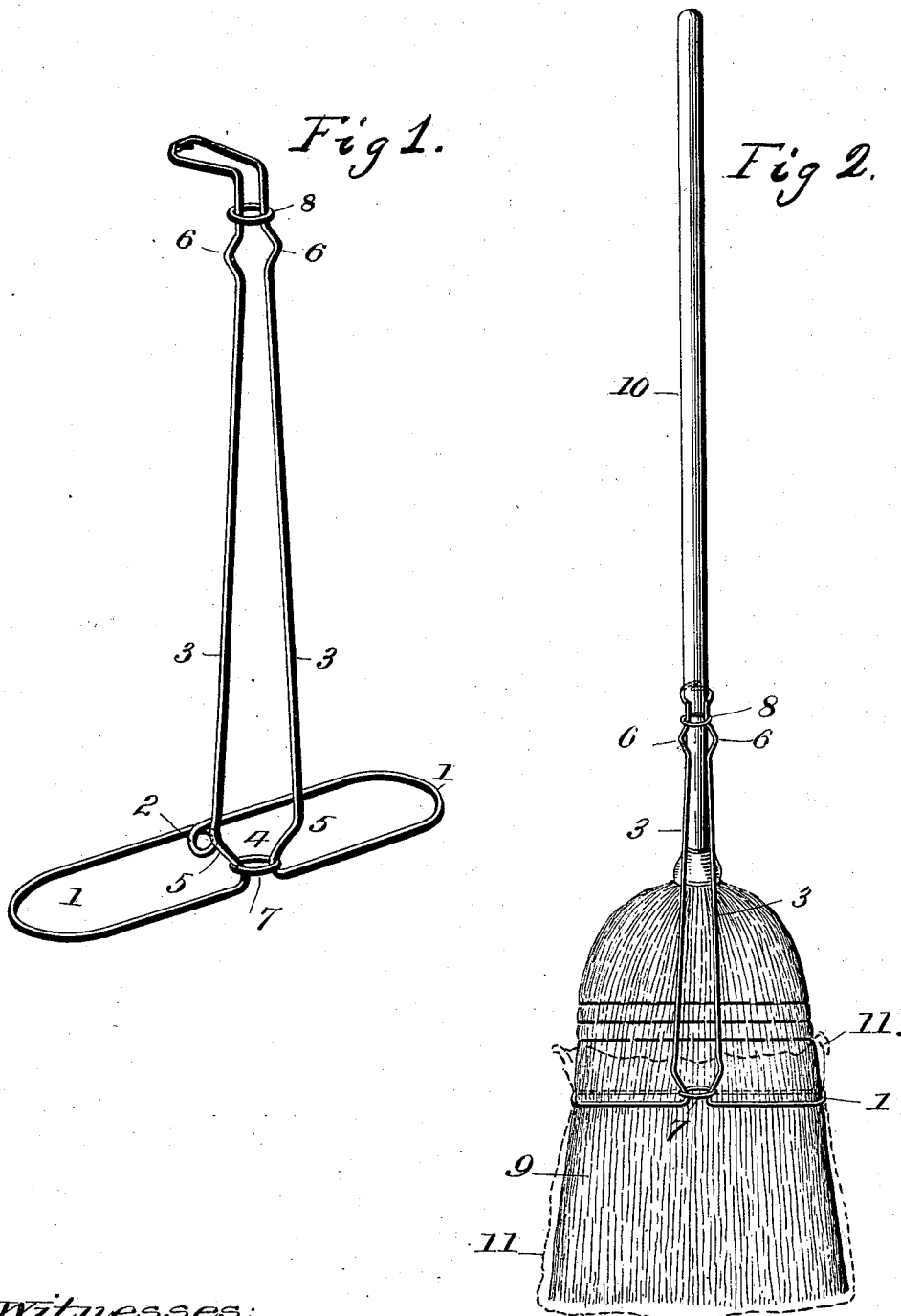


(No Model.)

F. S. HANN.
BROOM OR BRUSH BRIDLE.

No. 570,927.

Patented Nov. 10, 1896.



Witnesses:

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UNITED STATES PATENT OFFICE.

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BROOM OR BRUSH BRIDLE.

SPECIFICATION forming part of Letters Patent No. 570,927, dated November 10, 1896.

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To all whom it may concern:

Be it known that I, FRANCIS S. HANN, a citizen of the United States, residing at York, in the county of York and State of Pennsylvania, have invented certain new and useful Improvements in Broom and Brush Bridles; and I do declare the following to be a full, clear, and exact description of the invention, such as 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 figures of reference marked thereon, which form a part of this specification.

My invention relates to bridles for brooms and brushes and the like, and has for its object to provide a simple construction of bridle which can be readily applied and removed and which will admit of easy adjustment back and forth on the broom or brush, so as to better fit the broom or brush for heavy or light work, as may be required.

To the accomplishment of the foregoing and such other objects as may hereinafter appear the invention consists in the construction and combination of parts hereinafter particularly described, and then sought to be specifically defined by the claims, reference being had to the accompanying drawings, forming a part hereof, and in which—

Figure 1 is a perspective of the bridle; Fig. 2, a perspective of a broom, showing the bridle applied thereto, and also showing in dotted lines a mop applied to the broom and secured thereto by the bridle.

In the drawings the numeral 1 designates the loop of the bridle, which is designed to encircle or pass transversely across the straws or bristles of the broom or brush, so as to bind the same and regulate the flexibility or stiffness of the broom or brush. This loop portion is formed on one side with a coil 2, which adds strength to the loop and at the same time renders it more elastic than otherwise would be the case, said coil also serving as a means for suspending the broom or brush when not in use.

The numerals 3 designate two arms, formed integrally with the loop and extending at right angles therefrom from about the middle

portion of the loop, and at the point 4 are formed with offsets 5 by bending the arms outwardly and inwardly, as shown. The arms near their outer ends are also formed with offsets 6 by bending the wire outwardly and inwardly, and the outer ends of the two arms are bent inwardly, so as to form a loop adapted to encircle or straddle the handle of the broom or brush.

The purpose of the offsets 5 is to prevent the ring 7 from sliding along the two arms when the bridle is applied and the ring pressed below the offsets next to the loop, so as to clamp the loop portion of the bridle around the straws or bristles, and the purpose of the offsets 6 is to prevent the ring 8 from slipping down the arms when that ring is moved above the offsets to clamp the outer ends of the arms about the broom or brush handle. These rings securely clamp the bridle to the broom or brush and prevent the spreading of the arms.

In the operation of applying the bridle the two rings 7 and 8 are pressed over the offsets 5 and 6 and moved centrally toward each other, so as to permit expansion of the bridle, which is then applied by slipping the loop portion 1 over the handle and down over the straws or bristles, and so that the loop at the outer ends of the arms will encircle the handle. After the bridle has been adjusted to the position desired the ring 7 is pressed down below the offsets 5, so as to bind the loop 1 around the straws or bristles, and the ring 8 is pressed above the offsets 6, so as to bind the loop at the ends of the arms around the handle and thus securely hold the bridle in position. When it is desired to adjust the bridle, the rings 7 and 8 are moved away from the offsets 5 and 6, so as to loosen the parts, and the adjustment is then made, after which the rings are again moved into their clamping positions, as before mentioned. If it is desired to make the straws or bristles stiff, the bridle is moved in the direction of the free ends of the straws or bristles, and if it is desired to impart flexibility to the straws or bristles the bridle is moved up toward the handle.

When it is desired to apply a mop to the

broom, the mop fabric is folded over the ends of the straws, so as to bring a portion of the fabric on both sides of the broom-straws, and the ends of the fabric then passed under the
 5 wires composing the loop 1, so as to lie between them and the straws, and the ring 7 is then drawn down below the offsets 5, so as to bind the fabric to the head of the broom. The fabric may be so adjusted that a portion of it
 10 will lie loosely below the ends of the bristles if it be desired to have that form of mop, but if it be desired to have the fabric lie closely to the broom-head for the purpose of dusting walls or ceilings the fabric will be drawn up-
 15 ward, so that its folds will lie close to the ends of the straws in the broom-head.

In the drawings the numeral 9 designates the broom-head, and 10 the broom-handle, while the fabric which forms the mop is designated in dotted lines by the numeral 11.

The arms of the bridle as well as the loop which encircles the broom-head and the coil made in that loop and the loop at the outer end of the arms are all formed of one piece
 25 of suitable stiff, spring-wire. By forming the arms 3 as a continuation of the loop 1 and providing means for clamping the loop to the broom-head and the arms to the handle the bridle can be adjusted to any extent desired along the broom-head, so as to get the required stiffness desired in the broom-head, and the means which clamp the bridle in position are thus adjusted along with the bridle, so as to clamp the parts in whatever position
 35 the bridle may be placed. The construction also permits the straws or bristles to be clamped by the loop with equal firmness, no matter to what position the bridle be adjusted, and in all adjustments the parts are so
 40 clamped that there can be no accidental slipping of any part.

The bridle is comparatively inexpensive to make and is strong and durable, and there

being no free ends to the loop around the broom-head there is no liability of the straws 45 or bristles working their way out of the loop.

Having described my invention and set forth its merits, what I claim is—

1. The broom or brush bridle consisting of the loop to encircle the straws or bristles, the 50 arms to extend along the handle, and means for clamping the loop to the broom or brush head and adjustable means for clamping the arms to the handle, the loop being made in one continuous piece and merging into the arms, 55 substantially as and for the purposes described.

2. The broom or brush bridle consisting of the loop to encircle the broom or brush head, the arms forming a continuation of said loop, 60 and adapted to lie along the handle, and formed with offsets next to the loop and also with offsets next to the outer ends of the arms, a ring to bind the loop around the broom or brush head, and a ring to bind the outer ends 65 of the arms to the handle, substantially as and for the purposes described.

3. The broom or brush bridle consisting of the loop to encircle the broom or brush head and formed with a coil to stiffen the same and 70 constitute means for suspending the broom or brush, the arms formed as a continuation of the loop and made with offsets at opposite ends and having a loop at its outer end to encircle the broom or brush handle, and rings adapted 75 to be moved over the offsets at opposite ends of the arms to clamp the loop to the broom or brush head and the arms to the handle in various adjustments of the bridle, substantially as and for the purposes described. 80

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

FRANCIS S. HANN.

Witnesses:

JOHN F. SPRENKEL,
 WILLIAM ZINN.