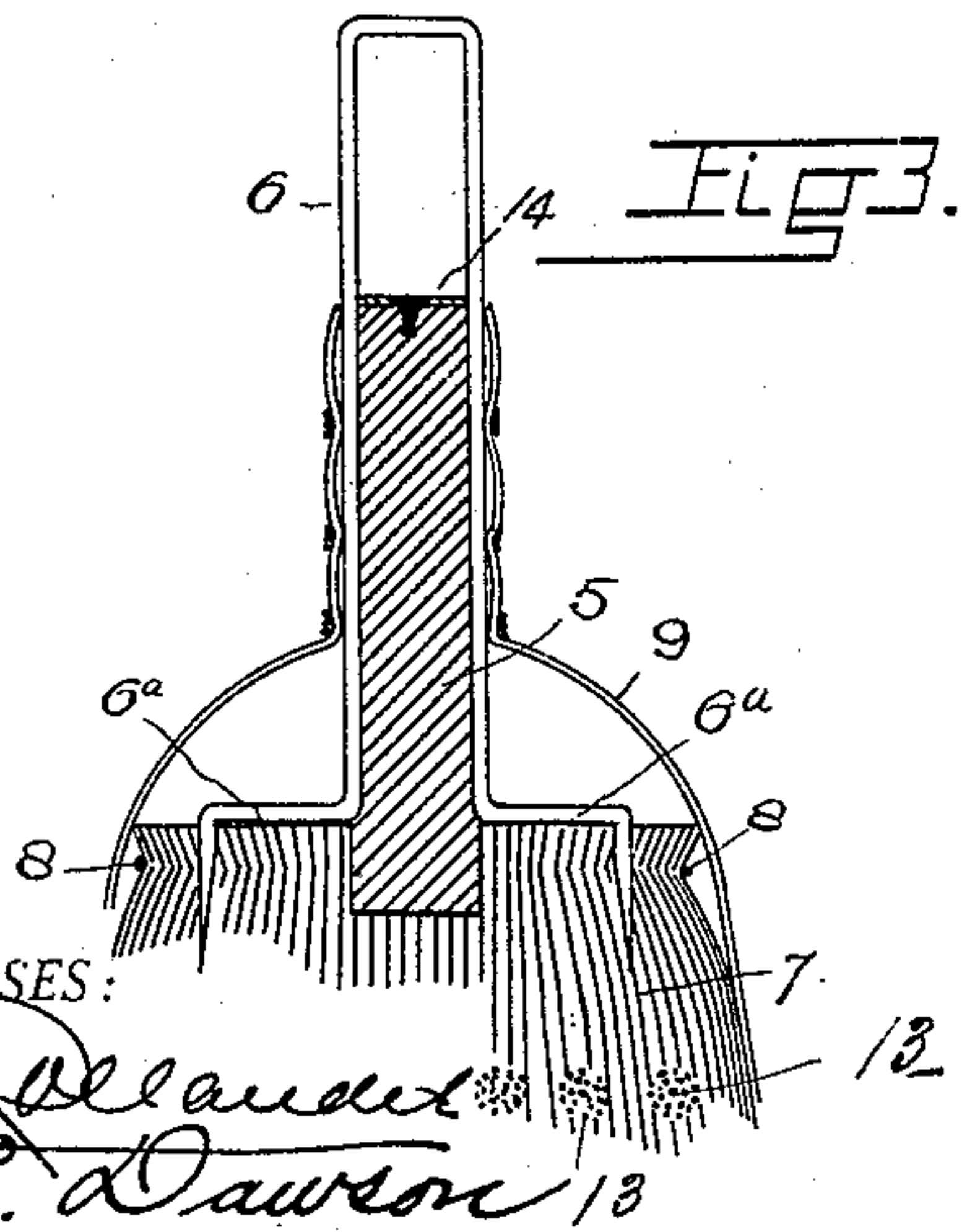
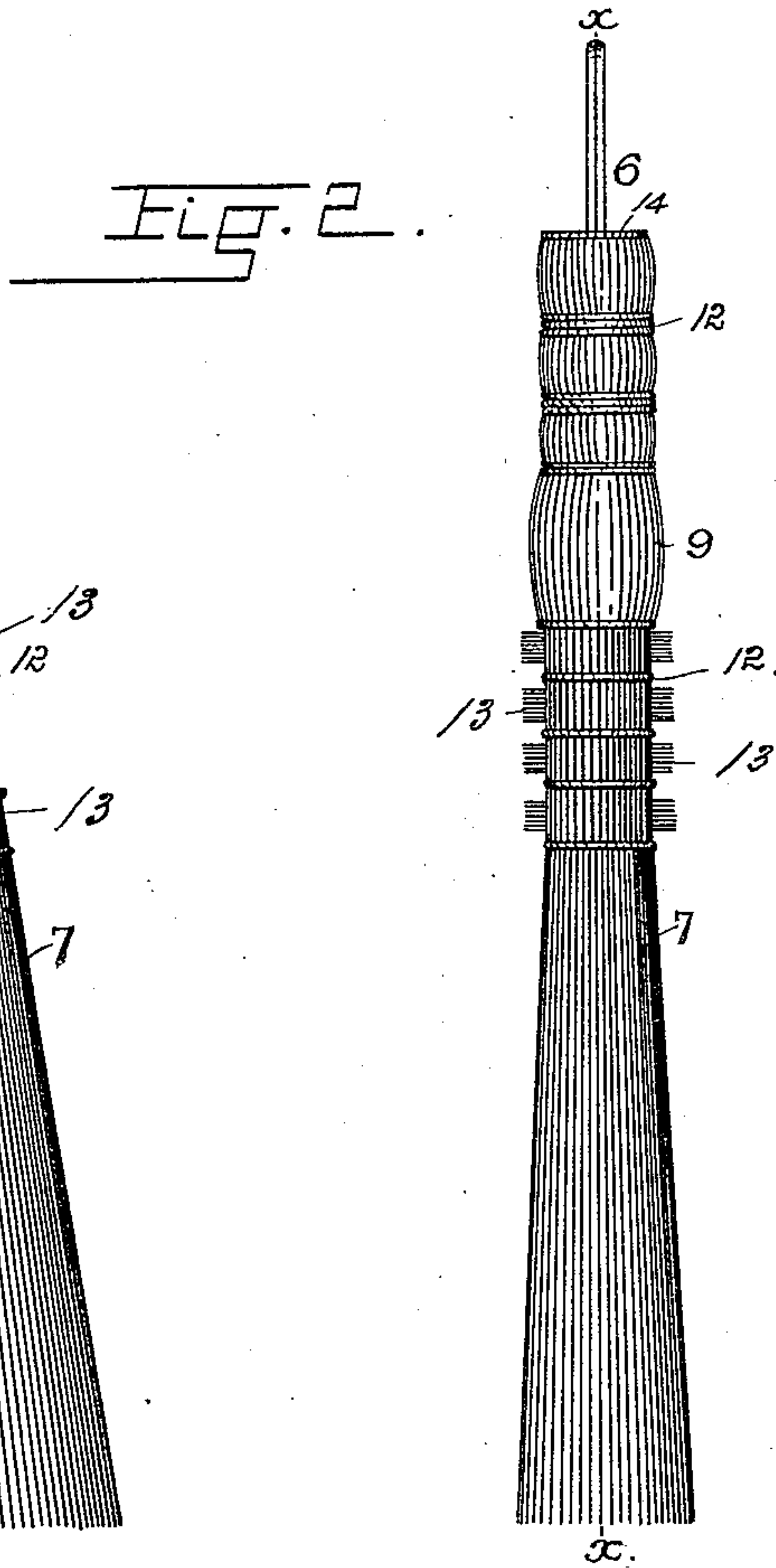
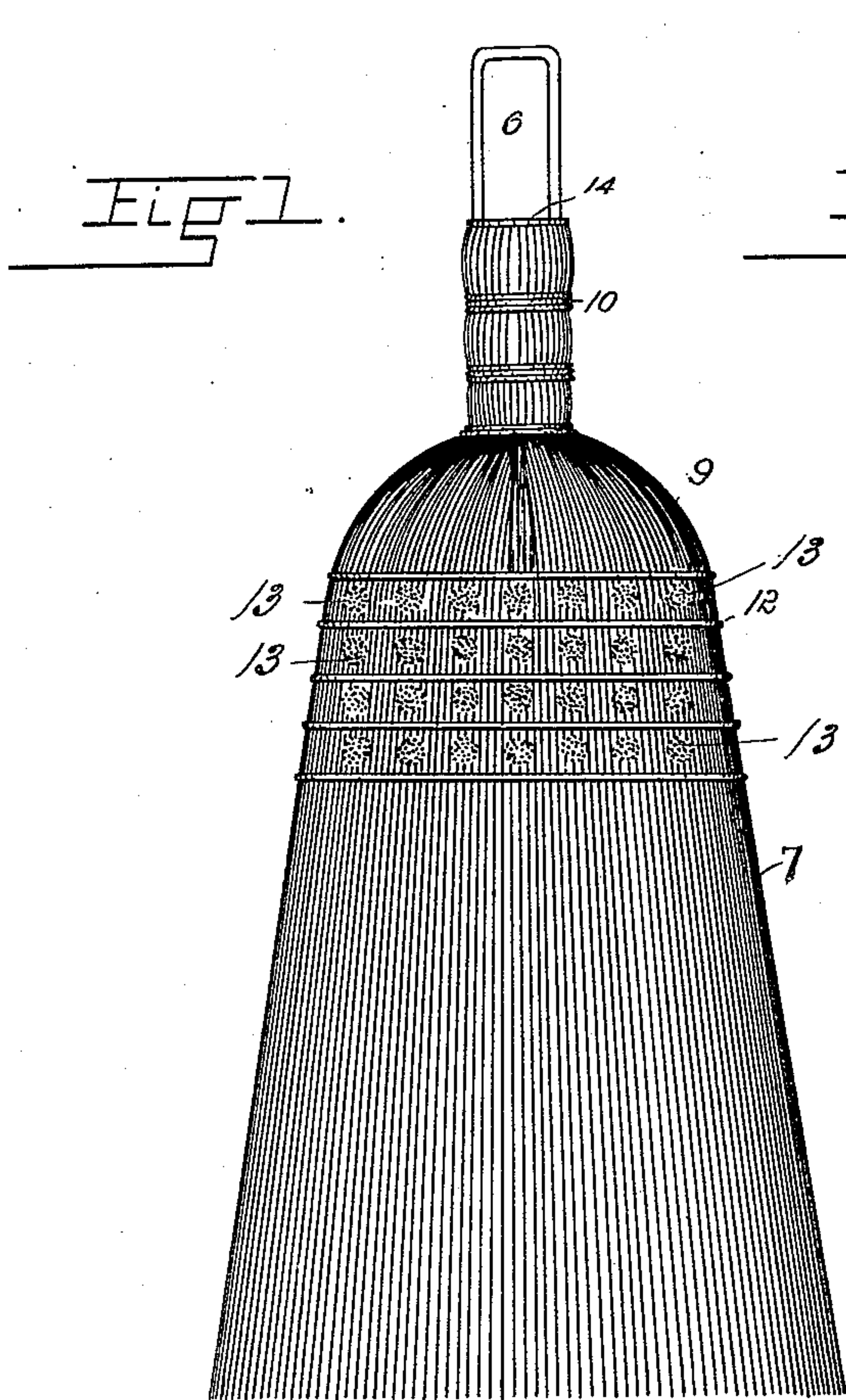


(No Model.)

A. F. MIDDAGH, F. T. ANDERSON & A. T. HOEVET.  
COMBINATION WHISK BROOM.

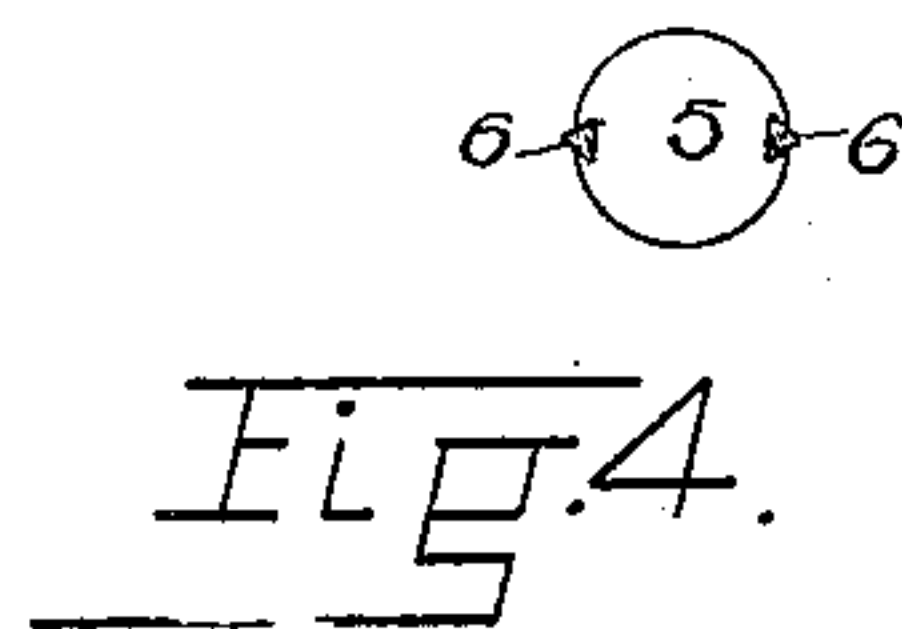
No. 538,177.

Patented Apr. 23, 1895.



WITNESSES:

*J. J. Ollander*  
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# UNITED STATES PATENT OFFICE.

ASA F. MIDDAGH, FRANCIS T. ANDERSON, AND ALFRED T. HOEVET, OF  
DENVER, COLORADO.

## COMBINATION WHISK-BROOM.

SPECIFICATION forming part of Letters Patent No. 538,177, dated April 23, 1895.

Application filed August 13, 1894. Serial No. 520,336. (No model.)

*To all whom it may concern:*

Be it known that we, ASA F. MIDDAGH, FRANCIS T. ANDERSON, and ALFRED T. HOEVET, citizens of the United States of America, residing at Denver, in the county of Arapahoe and State of Colorado, have invented certain new and useful Improvements in Combination Whisk-Brooms; and we 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.

Our invention relates to improvements in combination whisk brooms, and consists of the features hereinafter described and claimed, all of which will be fully understood by reference to the accompanying drawings, in which is illustrated an embodiment thereof.

In the drawings, Figure 1 is a side view of our improved whisk broom. Fig. 2 is an edge view of the same. Fig. 3 is a section taken on the line  $x-x$ , Fig. 2, and partly broken away. Fig. 4 is a cross-section taken through the wire portion of the handle, the wood part being shown in end elevation.

Similar reference characters indicate corresponding parts in the views.

The numeral 5 designates the wood part of the handle which is grooved on diametrically opposite sides to receive an embracing wire 6 which projects above the wood part 5, being bent to form a loop which may be passed over a nail or other supporting device upon which the broom is hung.

Near the lower extremity of the wood part, the wire 6 is bent outwardly, forming shoulders 6<sup>a</sup> engaging the top of the inner part 7 of the brush, and then downwardly, terminating in sharpened extremities which project into the inner part of the brush on each side of the lower extremity of the wood part 5. The wire 6 thus forms a strengthening brace for the brush and prevents it from getting loose on the handle.

The part 7 of our improved broom is wired

in the usual manner, as shown at 8. The outer part 9 of the brush conceals the shoulders 6<sup>a</sup> of the wire. This part of the brush is applied and wired in the ordinary way as shown at 10 and 12.

The wire part 6 of the handle is preferably formed angular in cross-section, whereby the loop or exposed top part becomes a most efficient instrument for loosening and removing thick dirt spots from garments, said spots resulting from spattering the garment with muddy water. These dry dirt spots cannot be removed in the first instance by applying the brush, but must be loosened by some other instrument.

The protruding loop part of the wire is preferably triangular in cross-section as shown in Fig. 4; and it is applied to the dry dirt spots preparatory to brushing, thus forming a most convenient and handy attachment for a whisk broom. It will be readily understood that this attachment possesses advantages over any separate or detached instrument for the purpose stated.

It is often desirable, as when removing dirt or cleaning fine garments, to have a brush of finer quality than a whisk broom. This may be supplied by securing bunches 13 of bristles of any desired quality to the upper part of the whisk broom, thus forming a brush whose bristles extend approximately at right angles to the body of the brush. These bristles may be secured in any suitable manner, as by passing them transversely through the upper part of the broom and applying the wires 13 on each side, whereby the bristles of the auxiliary brush are held securely in place.

To the top of the wood part 5 of the handle is attached a metal cap-plate 14 which is notched to receive the parallel members 7 of the wire 6, and thus adds strength and security to the handle.

Having thus described our invention, what we claim is—

1. As an improved article of manufacture, a whisk broom provided with a wire embracing the wood part of the handle, and bent outwardly from the lower portion of the wood

part, and downwardly into the inner part of the brush, substantially as described.

2. As an improved article of manufacture,  
a whisk broom provided with an integral wire  
5 brace having an exposed loop at the top, its  
lower part being shouldered and terminating  
in depending points projecting into the body  
of the broom, substantially as described.

In testimony whereof we affix our signatures in the presence of two witnesses.

ASA F. MIDDAUGH.

FRANCIS T. ANDERSON.

ALFRED T. HOEVET.

Witnesses.

G. J. ROLLANDET,

CHAS. E. DAWSON.