

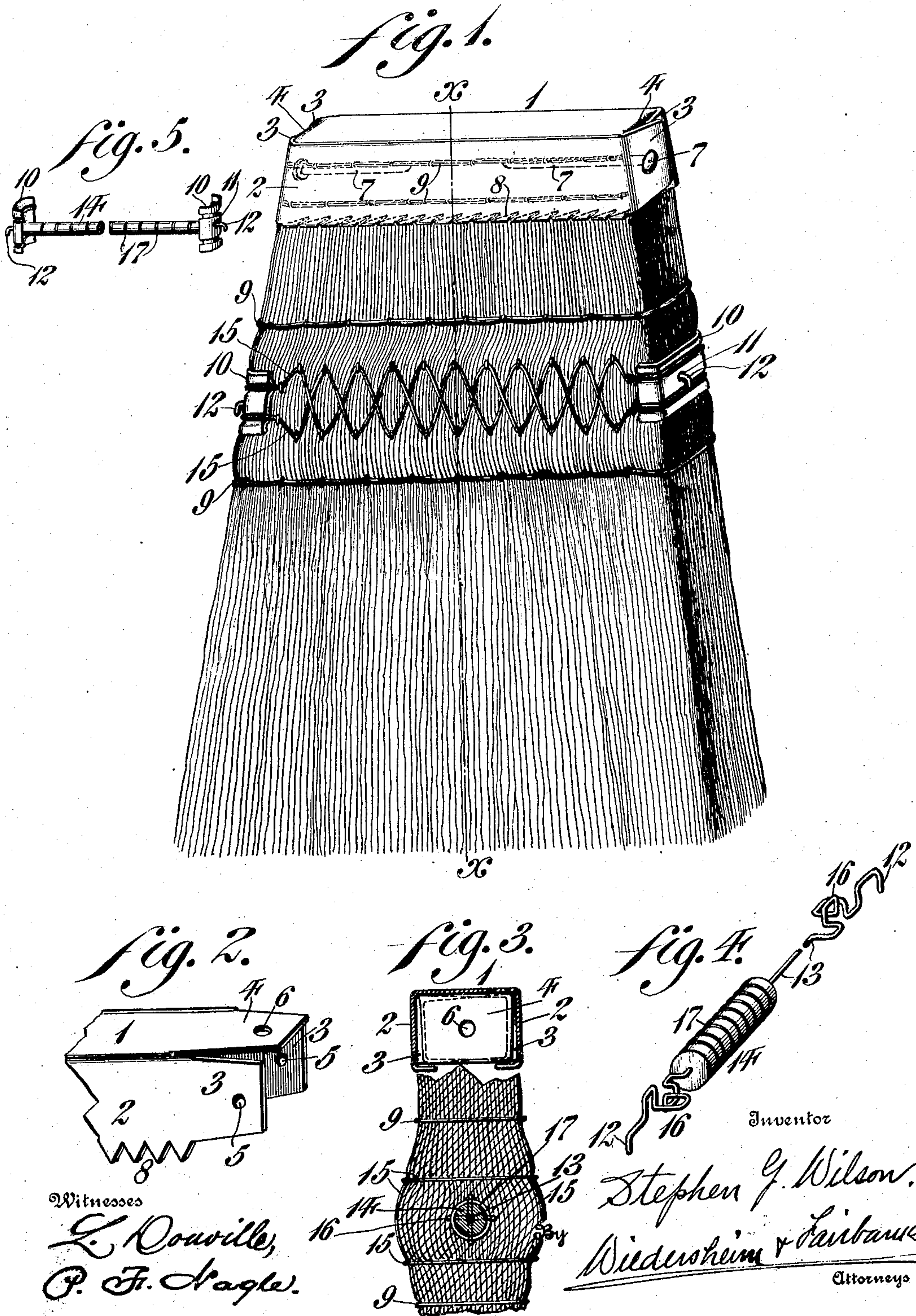
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BROOM.

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923,918.



UNITED STATES PATENT OFFICE.

STEPHEN G. WILSON, OF PHILADELPHIA, PENNSYLVANIA.

BROOM.

No. 923,918.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, STEPHEN G. WILSON, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Broom, of which the following is a specification.

This invention relates to a novel form of brush or broom head which is adapted to be used in connection with a holding device in which brush or broom heads worn out in use may be replaced by new ones.

It further relates to other novel details of construction all as will be hereinafter fully set forth.

Figure 1 represents a perspective view of my complete device. Fig. 2 represents a perspective view of a portion of the cap in detached position. Fig. 3 represents a section on line *x-x*, Fig. 1. Fig. 4 represents a detail of the projecting members and their connection. Fig. 5 represents a modification thereof.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings: 1 designates a metallic cap provided with side extensions 2 and adapted to receive a bundle of brush fibers forming a brush around which it is adapted to be closed by means of the extensions 3 on the sides 2 and the extension 4 projecting from the top, said extensions being provided with the openings 5 and 6 respectively, which are brought into alignment when said extensions are bent around the brush and through which a nail 7 or other means is adapted to be inserted and driven into the fibers of the brush. The side members 2 of the cap 1 have a series of teeth 8 which are bent over as seen in Fig. 1 to enter between the brush fibers directly beneath a line of sewing 9 and form a further locking means for the cap 1. It will be noted that the brush fibers are stitched in several places in the usual manner as indicated by the numeral 9.

In order to prevent the brush fibers from becoming loose or entirely disconnected from the cap, a block 14 is placed in the center of the fibers to secure the brush or broom fibers at this point which in connection with the sewing above and below and the particular formation of the block used prevents slipping or moving of the fibers. The block is provided with a series of slots 17 cut deep

enough to allow some of the fibers of the brush to be placed therein and when the same is in position and has been sewed up by the addition of cross stitching 15 it is impossible for the fibers to become detached or loosened. This block may be of a length corresponding to the width of the brush head or it may extend part way across in either case being held in position by the wire 13 which extends from one side of the brush to the other. In case the form shown in Fig. 4 is used the wire 13 is twisted in irregular shapes forming projections which serve to maintain the brush fibers tight in practically the same manner that the slot 17 of the block 14 does. In order to maintain the block 14 in its correct position longitudinally, the ends of the wire 13 are passed through clips 10 and are bent to form hooks 12 which are adapted to engage a broom holding device and secure the broom in place therein.

Attention is called to the grooves formed in the clips 10 in which the stitching 15 is adapted to be fitted to aid in properly fastening the clips to the brush stub.

From the above description, it is apparent that I have produced a simple and efficient fastening means for a brush or broom head which is readily gripped in a suitable holding device, the side pieces 10 and retaining means therefor, acting as a securing means to hold the broom parts together, in addition to the wire 13 and parts connected therewith.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. In a device of the character described, brush fibers, a cap therefor, means for securing said cap upon said fibers, clips engaging fibers, external means for securing said clips and holding them in contact with the fibers, and means passing through the brush from one clip to the other for additionally securing said fibers.

2. In a device of the character described, brush fibers, a cap therefor, securing means for said cap, clips engaging the said fibers, external means for securing said clips and holding them in engagement with the fibers, a wire passing through the brush from one clip to the other, and an enlargement upon said wire within the brush fibers.

3. In a device of the character described,

brush fibers, a cap therefor, means for retaining said cap upon said fibers, clips engaging the brush fibers, external means for securing said clips in engagement with the
5 fibers, a wire passing through said brush fibers from one clip to the other, hook projections on said wire extending outside the clips, and an enlargement on said wire within the brush fibers.

10 4. In a device of the character described, brush fibers, a metallic cap therefor, a series of teeth on the said cap engaging with the brush fibers, edge clips engaging with some of the brush fibers, external retaining means
15 for said clips, and internal retaining means

for the fibers, clips passing through the brush fibers and projecting outside said clips.

5. In a device of the character described, brush fibers, a metallic cap therefor provided with a series of teeth, wings on said 20 cap closing the ends thereof, fastening means extending into the brush through said wings, edge clips engaging the brush fibers, and means for securing said edge clips upon said fibers.

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Witnesses:

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