

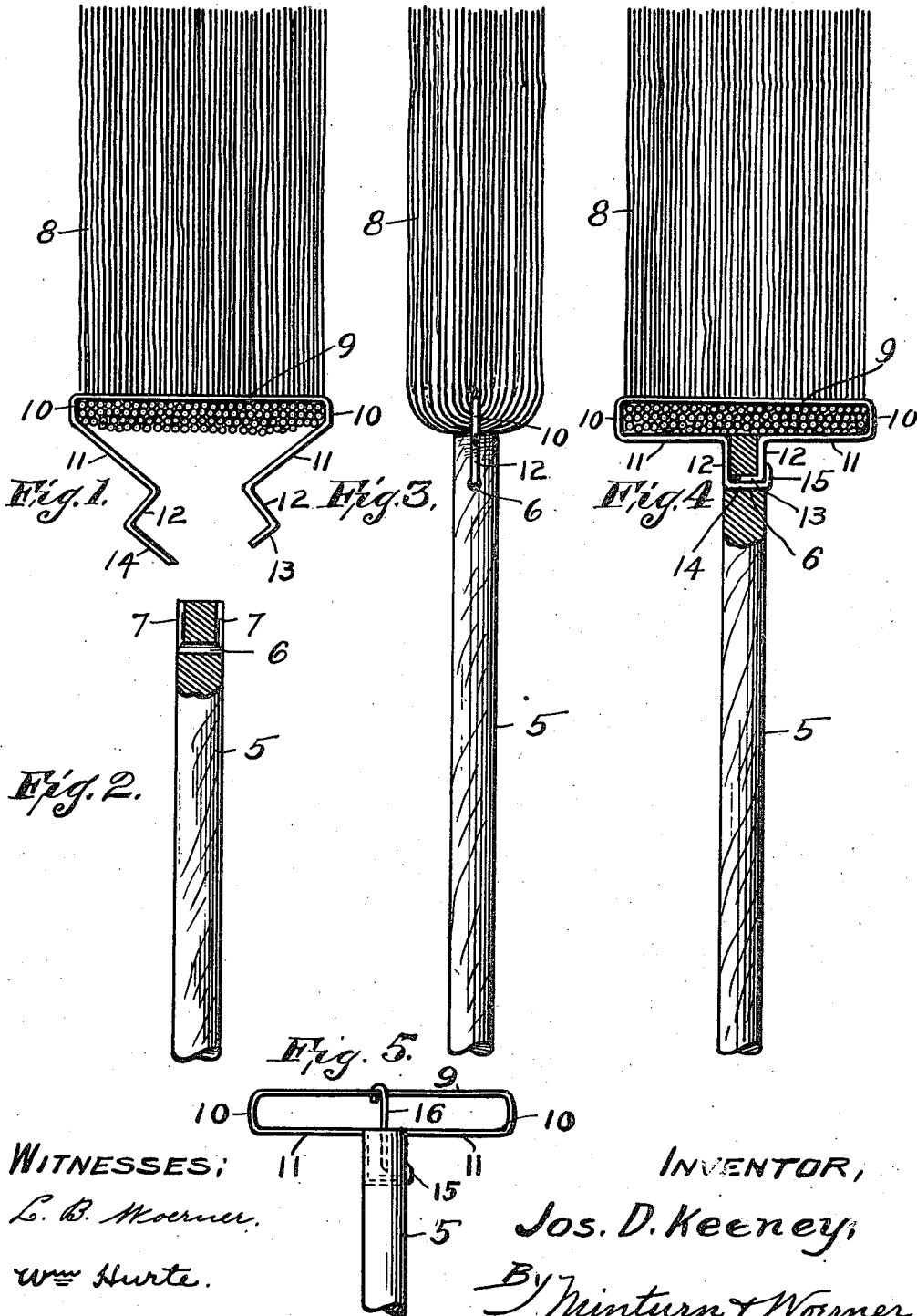
J. D. KEENEY.

MOP.

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949,679.

Patented Feb. 15, 1910.



WITNESSES:
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UNITED STATES PATENT OFFICE.

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MOP.

949,679.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOSEPH D. KEENEY, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Mops, of which the following is a specification.

This invention relates to improvements in mops in which twisted cotton strands are to be secured to a wooden handle, and the object of my invention is to provide a means for fastening the strands of cotton to the handle with wire in a quick and inexpensive manner without danger of splitting the handle, and whereby the parts will be inseparable under ordinary usage.

I accomplish the above objects by the means illustrated in the accompanying drawing, in which—

Figure 1 represents the twisted cotton strands of a mop, in section on a plane through the wire fastener, showing said wire fastener in side elevation and open position with the strands assembled preliminary to the attachment of the handle. Fig. 2 is a detail showing the end of a handle ready for the attachment of a mop construction such as is illustrated in Fig. 1, the end of the handle being longitudinally and centrally sectioned to show the wire receiving hole and groove. Fig. 3 is an edge view of my finished mop and Fig. 4 is a side view and partial section of same showing the manner in which the wires are finally bent to retain the twisted cotton strands. Fig. 5 shows a construction for large mops having a hook to engage the body of the wire loop and entering the end of the mop handle.

Like characters of reference indicate like parts throughout the several views of the drawing.

5 represents a wooden mop-handle of usual construction except at the end to which the cotton strands are attached. At a suitable distance from this end to afford the necessary strength and resistance to any tendency to pull out the wood, is a transverse hole 6 which extends diametrically through the handle. Extending longitudinally of the handle from each end of the hole 6, to the adjacent end of the handle are the channels or grooves 7.

8 are the twisted cotton strands which are to be saturated with water and brought into contact with the floor or surface to be mopped. These strands are of usual and

well known construction. The cotton strands 8 are secured to the handle 5 by means of a wire of suitable size, strength and stiffness, the body portion 9 of which stands transversely of the handle 5 in the finished article and is the part around which the cotton strands 8 are bent or looped. At the ends of the body 9 the wire is bent at right angles to form the members 10, and at a suitable distance the wires are bent at right angles to form the members 11 which are parallel with the member or body 9 in the finished article, as shown in Fig. 4. The wires forming the two body portions 11 are bent downwardly at right angles to form the portions or members 12 and they are again bent inwardly to form the members 13 and 14. The members 11 are just long enough to reach from the ends 10 to the bottoms of the grooves 7 in the handle 5, and the members 12 are long enough to reach from the end of the handle 5 to the hole 6.

In the operation of constructing the mop the above described wire-fastener has the members 11 oblique to each other until after the cotton strands 8 have been introduced. This is to provide a sufficient opening between the ends of the wire for the introduction of the folded strands into the position shown in Fig. 1 by a side movement of the strands which will be a saving in time which would otherwise be required by the threading of the strands endwise through the bent wire loop.

After the twisted cotton strands 8 have been assembled on the wire as shown in Fig. 1, the handle 5 is slipped upon the member 14 of the wire with said member passing through hole 6 and the member 12 resting in groove 7. Then the end 13 of the wire is inserted into hole 6 above the member 14, from the opposite end of hole 6, and the member 12 of this end is seated in groove 7. This brings the members 11 into parallelism with the body 9; then by bending the projecting end of member 14 up against the member 12 thereby forming the hook 15, the withdrawal of the members 13 and 14 from the handle is prevented and the structure thus completed will hold together securely under all ordinary usage of a mop, and by the engagement of members 12 in groove 7 of the handle the above described wire attachment will be rigidly held against any swinging movement around members 13 and 14.

Fig. 5 shows a construction for extra large mops in which the length of the body 9 of the wire for holding the strands of cotton to the handle would have a tendency to bend outwardly under the strain of wringing the mop. In this construction a wire hook 16 engages the body 9 and has its stem driven into the end of the handle 5 whereby the outward movement of bending of the body 9 is prevented. The hook 16 will only be required in the construction of very large mops and will not be used in mops of ordinary size for domestic use.

Having thus fully described my invention, what I claim as new and wish to secure by Letters Patent of the United States, is—
In a mop, a handle having a transverse

hole with longitudinal grooves from the ends of the hole to the adjacent end of the handle, textile strands, a wire bent to form a loop embracing said strands with the ends of said wire seated in the grooves of the handle and entering said hole in the handle, one of said ends extending through the handle and bent to form a hook embracing the other end.

In witness whereof, I have hereunto set my hand and seal at Indianapolis, Indiana, this fifth day of March, A. D. one thousand nine hundred and nine.

JOSEPH D. KEENEY. [L. s.]

Witnesses:

JOSEPH A. MINTURN,
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