April 28, 1931. A. C. KOOTZ 1,802,948

COMBINED MOP AND WRINGER

Filed July 8, 1929

Fig. 1

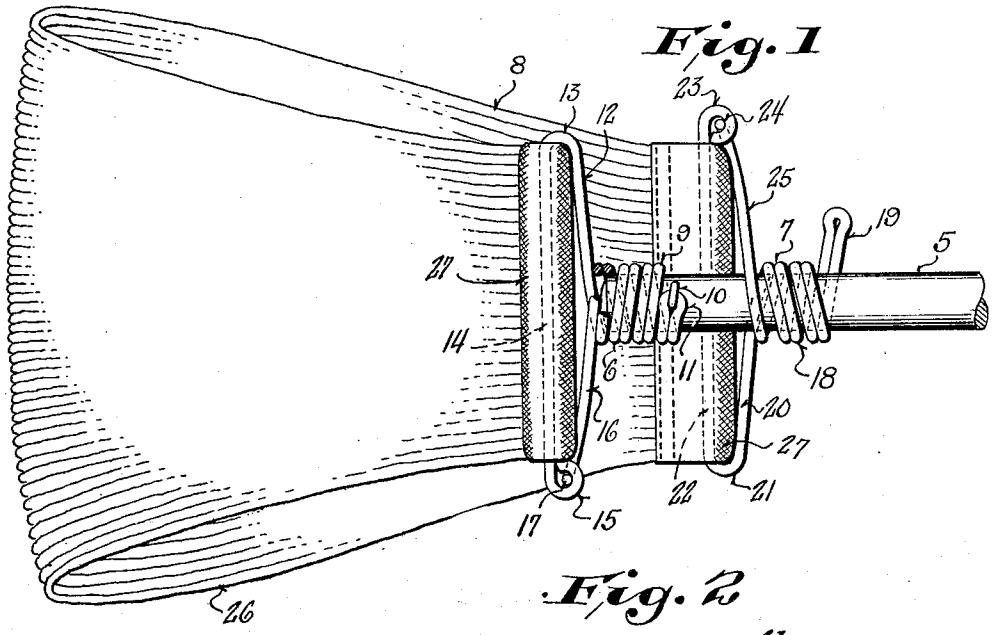
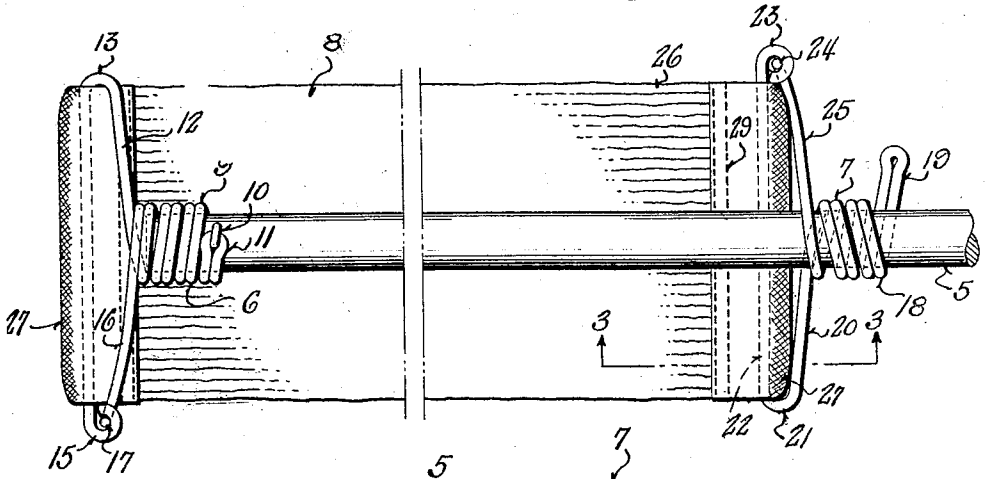


Fig. 2



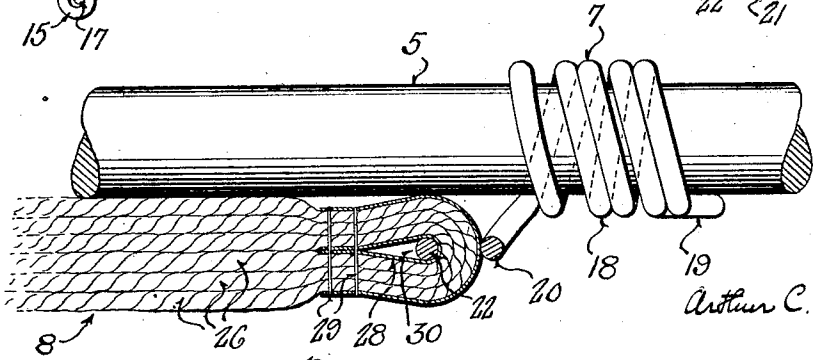


Fig. 3

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COMBINED MOP AND WRINGER

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The invention relates to mops and more particularly to combined mop and wringer.

In devices of this type heretofore proposed, so far as I am aware the mop material either could not be readily removed from the operating parts of the device at all or if removable not without considerable difficulty and in most instances not free from metal parts or connectors so that the same could not be readily washed in the ordinary washing machine. It is one of the objects of this invention to provide a combined mop and wringer in which the mop material can be removed readily as a unit from the connecting ends of the wringing and carrying mechanism and when so removed is entirely free of metal parts.

A further object of the invention is to provide a combined mop and wringer of extremely simple and economical construction in which one end of the mop material is detachedly secured to the end of the mop handle by a suitable connector and the other end of the mop material is detachably secured to a member rotatable on the mop handle, these connectors preferably being of heavy wire whose ends are bent to form pin connections, one of which passes through the mop material and has a snap connection with the other end.

The invention further consists in the several features hereinafter set forth and more particularly defined by claims at the conclusion hereof.

In the drawings Fig. 1 is a plan view of the mop in operative position, parts of the handle being broken away;

Fig. 2 is a view similar to Fig. 1, showing the mop in position for wringing, parts being broken away;

Fig. 3 is a detail sectional view taken on the line 3—3 of Fig. 2.

Referring to the drawings the numeral 5 designates a handle in the form of a round rod 6, 7 the connectors and 8 the mop material.

The connector 6 is preferably formed of heavy steel or iron wire coiled double to provide a cylindrical socket portion 9 receiving the inner end of the handle 5 to which it is also preferably fastened by a staple 10 driven into the handle and surrounding the eyed end 11 of this connector. From this cylindrical portion 9 the connector has two branching ends. One end 12 extends laterally from one side of the handle and is then bent, as at 13, to form a transverse mop-receiving portion 14 having an eyed end 15, the other end 16 branches laterally and has a hook portion 17 adapted to be engaged in the eye 15.

The socket portion 9 of the connector forms a substantially rigid member but the ends 12 and 16 are sufficiently yieldable so as to permit the connection and disconnection of the hook 17 with the eye 15.

The connector 7 is formed of heavy steel or iron wire, coiled double for a portion of its length to provide a cylindrical sleeve portion 18 slidably mounted on the handle 5, with the double end 19 projecting laterally therefrom to form a handle to either hold or rotate the sleeve 18 about the handle 5.

One of the wires of this connector has a laterally extending portion 20 bent at 21 to provide a transversely extending mop-receiving portion 22 provided with an eyed end 23 detachably engaged by the hooked end 24 of the other laterally extending portion 25.

The mop element consists of a plurality of strands 26 of yarn or other suitable material, these strands being either separate strands or being formed from a single rope-like piece of yarn or other suitably absorbent material doubled at spaced intervals to form strands, there being two or more plies of strands associated together across the width of the mop, thereby forming a heavy flat pad. These strands are bound together at their ends by inner and outer fabric strips 27 and 28 which are stitched to each other and to the strands by rows of stitching 29, thereby providing reinforced ends and forming pockets 30 through which the transverse portion 14 or 22 of the connectors are inserted, after which the parts 16 and 25 of the connectors are hooked into the eyes 15 and 23 so that the ends of the mop material are mounted on the frames provided by these connectors and as the connectors are disposed

across the axis of the handle the mop material when placed in operative position will lie flat on the floor, as shown in Fig. 1.

With the parts in the position described above the mop is used in the usual manner to clean floors or other places and is generally used wet.

For wringing the mop the connector 7 is slid back toward the outer end of the handle, as shown in Fig. 2, so as to place the mop strands in an elongated, stretched position, after which either the handle is turned relative to the connector 7 or the connector turned relative to the handle so that the mop strands are twisted about the handle to produce a wringing action in order to expel the water therefrom and thereafter the connector is moved back to the original position for subsequent mopping operations.

As the mop element itself contains no metal parts and the connector parts are readily detachable therefrom, the mop element may be readily washed when desired, or readily renewed. As there is no machine work necessary for forming the connectors and the parts are readily assembled without the use of skilled labor, the mop may be very economically produced. Furthermore, as there are no complicated working parts and the operation merely involves the turning of one member relative to another, the device is extremely easy to operate and needs no special demonstration for explaining its method of operation.

I desire it to be understood that this invention is not to be limited to any particular form or arrangement of parts except insofar as such limitations are included in the claims.

What I claim as my invention is:

1. In a combined mop and wringer, the combination of a handle, a mopping element having end loops and strands of yarn arranged in rows between said loops, means for releasably connecting one of said end loops with one end of the handle, a connector wire having a coiled portion slidably mounted on the handle and having a laterally extending handle projection, said connector having an end portion extending through the other of said loops and an end in hooked engagement with said end portion.

2. In a combined mop and wringer, the combination of a handle, a connector secured to one end of the handle, a connector slidably mounted on the handle, each of said connectors having a looped end portion with separable hook and eye connection at its exposed ends at one side, and a mopping element having looped ends detachably secured to said connectors and through which one of the parts of the looped ends of said connectors extend, said element including mopping material in strand form extending between its ends.

3. In a combined mop and wringer, the combination of a handle, a mopping pad having looped ends, a connector secured to one end of the handle, a connector slidably mounted on the handle, each of said connectors having a looped end portion to releasably receive a looped end of said pad and having a releasable connection at one side of said looped end portion between the parts thereof exterior of said pad.

In testimony whereof, I affix my signature.

ARTHUR C. KOOTZ.