L. F. SCHMID.

COMBINATION BRUSH AND MOP ATTACHMENT.

APPLICATION FILED APR. 23, 1909.

954,217. Patented Apr. 5, 1910.

Fig. 1.

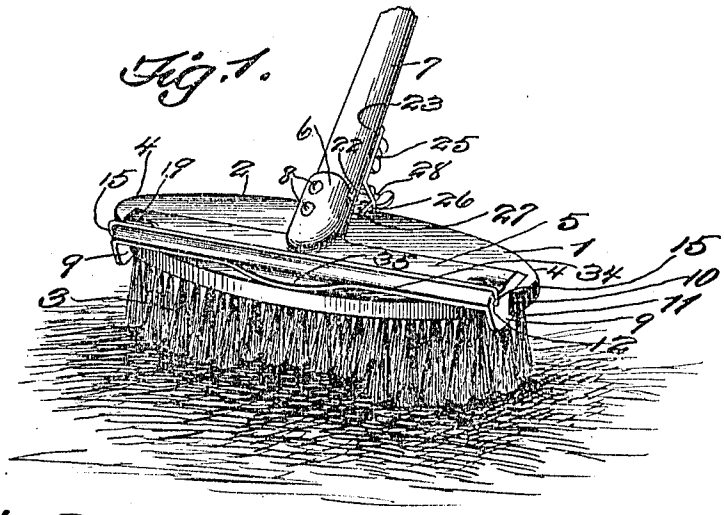


Fig. 2.

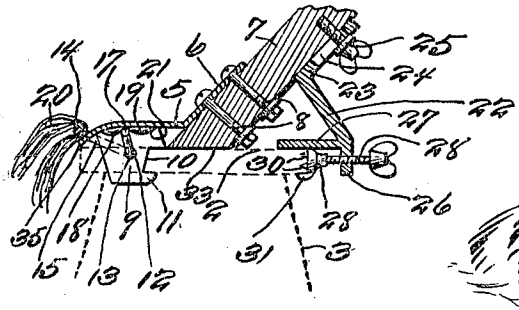


Fig. 3.

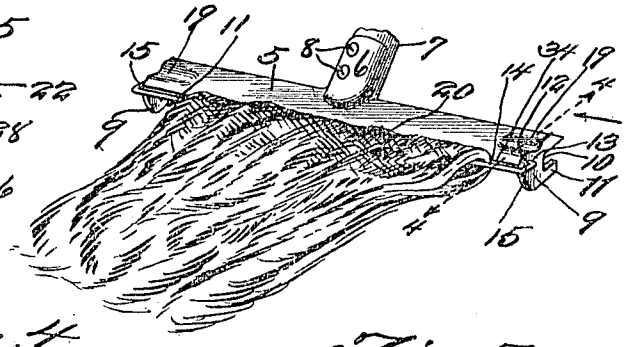


Fig. 4.

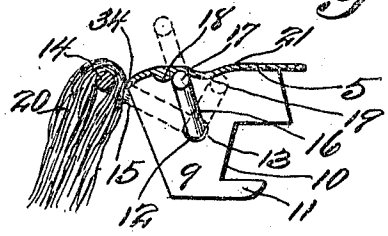
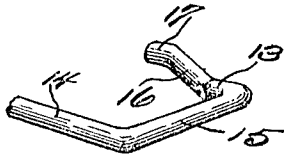


Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

LAWRENCE F. SCHMID, OF ST. LOUIS, MISSOURI.

COMBINATION BRUSH AND MOP ATTACHMENT.

954,217. Specification of Letters Patent. Patented Apr. 5, 1910.

Application filed April 23, 1909. Serial No. 491,680.

To all whom it may concern:

Be it known that I, LAWRENCE F. SCHMID, a citizen of the United States of America, residing at St. Louis, Missouri, have invented a new and useful Combination Brush and Mop Attachment, of which the following is a specification.

The invention about to be set forth belongs to the art of scrubbing and mopping, and it particularly pertains to a new and novel mop holder attachment for scrubbing brushes.

The primary object of the invention is to provide a device of this design, which is designed for use in conjunction with a scrubbing brush-holder as set forth and claimed in a co-pending application, filed February 23, 1909, Serial No. 479,533, and to which the usual mop may be conveniently attached, as clearly illustrated in Figures 1 and 2 of the drawings.

A further object is to provide a spring clamping member so arranged upon the holder as to securely hold a mop thereto.

Another object is the provision of means for holding the member locked when clamping the mop; the clamping member may be formed of any suitable metal having sufficient resiliency, whereby a binding action is exerted upon the mop to prevent its displacement.

This invention comprises further objects and combinations of elements, which will be hereinafter more fully described, shown in the accompanying drawings, and the novel features thereof will be pointed out by the appended claims.

In this specification and the annexed drawings, a particular design of device is adhered to, but the invention is not to be confined to this specific design. The device in its actual reduction to practice may necessitate changes and variations, the right thereto belongs to the applicant, provided such changes and variations are comprehended by the appended claims.

To obtain a full and correct understanding of the details of construction, attention is directed to the accompanying drawings, the structure therein being described by this specification, and in which drawings—

Fig. 1 is a perspective view of an ordinary scrubbing brush, showing the combination brush and mop attachment applied thereto. Fig. 2 is a sectional view transversely through the scrubbing brush and the attachment, showing clearly the manner in which a mop may be securely held to the device. Fig. 3 is a perspective view of the device detached from the brush, showing the usual mop attached thereto. Fig. 4 is an enlarged detail sectional view of a portion of the structure shown in Fig. 2, clearly illustrating the manner in which the clamping member is securely locked, when holding the mop in place. Fig. 5 is a detail perspective view of a portion of the spring clamping member, showing its contour at either end.

In regard to the drawings, wherein similar reference characters indicate corresponding parts in the several illustrations, 1 designates the ordinary scrubbing brush of the usual construction, to which the attachment is applied, as shown clearly in Figs. 1 and 2. The brush comprises the wood portion 2 and the usual bristles 3. The wood portion of the brush is tapered at either end thereof, as shown at 4, which performs the function of preventing movement of the attachment endwise of the brush, as will be clearly manifest in an endeavor to ascertain the features of the invention.

The attachment consists mainly of an elongated plate 5, having an integral socket member 6, in which the handle 7 is secured by suitable bolts 8, as will be clearly seen in Figs. 1, 2 and 3. The ends of the plate are provided with ears or members 9, which extend downward from the said plate. These ears or members are recessed, as shown at 10, the width of which is such as to fit snugly the wood portion of the brush, as will be clearly understood from Figs. 1 and 2. By recessing the said ears, lugs 11 are formed, which engage the under face of the wood portion of the brush, that is, adjacent to the ends. Apertures 12 are formed in the ears, and are designed for the purpose of receiving the portions 13 of the spring clamping member 14, as seen clearly in Figs. 1, 2 and 3. This spring clamping member comprises a suitable rod, as clearly shown, having its ends bent at right angles, forming the portions 15. The portions 13, which act as the pivots for the said member, extend at right angles to the portions 15, and from the portions 13 the locking members or portions 16 extend, which are disposed at an angle to the portions 15, as clearly shown. Extending from the locking members or portions 16, and at right

angles thereto, are lugs 17, which are designed to engage the under face of the said plate, that is to say, between the lugs or projections 18 and the cam portions 19, as shown clearly in Figs. 2 and 4. When the lugs 17 of the locking members are disposed in this position, the spring clamping member is locked in engagement with the forward edge of the said plate, so as to securely hold the usual mop 20 firmly in place, as shown clearly in Figs. 2, 3 and 4. When the clamping member is disposed in a position, as shown in dotted lines in Fig. 4, the said lugs 17 are engaging that portion of the cam designated by the numeral 21, and, when the said clamping member is so positioned, the mop 20 may be easily and quickly removed. When the said lugs are positioned between the lugs 18 and the cam portions 19, as shown in Figs. 2 and 4, it is clearly manifest how the clamping member is securely locked.

The rear circumference of the handle 7 has secured thereto a plate 22, the angled end 23 of which is designed to fit snugly about the said handle. This angled end is provided with an elongated slot 24, through which the thumb screw 25 extends. This thumb screw is suitably threaded into the handle, as shown clearly in Fig. 2, and by loosening the said screw, the plate 22 may be easily adjusted, so as to fit various widths of brushes between the said plate and the said ears 9, as shown clearly in Fig. 2 of the drawings. The lower portion of the plate 22 is provided with a downward projection 26, and extending at right angles to this projection is an extension 27. This extension 27 engages the upper face of the wood portion of the brush, while the downward projection has threaded therein a thumb screw 28. This thumb screw 28 is provided with a swiveled member 29, which engages the rear periphery of the wood portion of the brush, as clearly shown.

The swiveled member 29 is provided with spurs 30, which are designed to pierce the rear periphery of the wood portion of the brush, as seen clearly in Fig. 2. The swiveled member is also provided with a lug 31, which engages the under face of the wood portion of the brush. By the provision of the spurs 30 and the lug 31, the swiveled member is held stationary with the brush, while the screw 28 is allowed to turn freely therein, so as to hold the attachment securely to the brush, and with sufficent rigidity as to allow the user of the device to properly and thoroughly perform the necessary functions for which a scrubbing brush is intended. The attachment, when secured to the brush, is so positioned with relation thereto that the handle 7 has its beveled portion 35 engaging the upper face of the said wood portion of the brush. The engagement of the beveled portion 33 and the upper face of the said wood portion prevents flexibility of the said plate at its central portion, as will be clearly understood. The forward edge 34 of the said elongated plate is bulged outward to form a lip 35, the function of which is to prevent lateral movement of the mop, sufficient to hold the mop as near central of the said plate as possible, and to prevent the outer portions of the mop from hanging about the portions 15 of the spring clamping member. This lip 35 extends slightly downward and at an angle to the body portion of the plate and is disposed adjacent to the upper forward portion of the plate and is disposed adjacent to the upper forward portion of the wood portion of the brush, as will be observed in Fig. 2. Between this lip and the said spring clamping member, the mop is clamped. The clamping member is designed to have sufficient resiliency to cause the same to have a binding action upon the mop to prevent its displacement.

From the foregoing, the essential features, elements and the operation of the device, together with the simplicity thereof, will be clearly apparent.

Having thus fully described the invention, what is claimed as new and useful is:—

1. In a mop attachment, an elongated plate having downwardly curved ears at either end, resilient means for clamping a mop to the plate and having integral locking means to engage and disengage the plate for locking and unlocking the resilient means in position and out of position when the resilient means is sprung upward by its free portion.

2. In a mop attachment, an elongated plate having a bail-shaped member pivoted thereto having flexible properties to cause a binding action upon the mop, said plate having a central extension between which and the said bail-shaped member the mop is clamped.

3. In a mop attachment, a plate, a bail-shaped member arching over the plate and having its ends engaging under the plate to lock it against the mop.

4. In a mop attachment, a plate having downwardly extending ears and provided with resilient clamping means pivoted thereto provided with right angled bent ends having projections, said plate having downwardly protruding portions at either end thereof to coöperate with the projections for locking the pivoted means.

5. In a mop attachment, a plate having resilient clamping means pivoted thereto provided with right angled bent ends having projections, said plate having downwardly protruding portions at either end thereof to coöperate with the projections for locking the pivoted means, said plate having a lip to prevent endwise displacement of the mop.

6. In a mop attachment, a plate having a

resilient clamping member provided with right angled bent ends having projections, said plate having downwardly protruding portions at either end thereof to coöperate with the projections for locking the said clamping member.

7. In a mop attachment, a plate having a forward downwardly curved portion, a bail-shaped clamping member arching down over the plate and having its ends engaging under the plate to hold the mop between the member and the forward downwardly curved portion, said forward downwardly curved portion having a lip to prevent endwise movement of the mop.

8. In a mop attachment, an elongated plate having downwardly extending ears at either end and provided with a forward downwardly curved portion, a bail-shaped clamping member for clamping the mop arching over the plate and having its end portions pivoted in said ears so that the mop may be clamped between the forward downwardly curved portion and the member when the member is swung forwardly and downwardly.

9. In a mop attachment, an elongated plate having downwardly extending ears at either end and provided with a forward downwardly curved portion, a bail-shaped clamping member for clamping the mop arching over the plate and having its end portions pivoted in said ears so that the mop may be clamped between the forward downwardly curved portion and the member when the member is swung forwardly and downwardly, said forward downwardly curved portion having a lip to prevent endwise movement of the mop.

10. In a mop attachment, an elongated plate having downwardly extending ears at each end and provided with a forward downwardly curved portion, a bail-shaped member for clamping the mop arching down over the plate and provided with right-angled bent ends pivoted in said ears, said ends having projections, said plate having downwardly protruding portions at either end thereof to coöperate with said projections for locking the member and holding the mop between the member and the plate's downwardly curved portion.

11. In a mop attachment, an elongated plate having downwardly extending ears at each end and provided with a forward downwardly curved portion, a bail-shaped member for clamping the mop arching down over the plate and provided with right-angled bent ends pivoted in said ears, said ends having projections, said plate having downwardly protruding portions at either end thereof to coöperate with said projections for locking the member and holding the mop between the member and the plate's downwardly curved portion, said downwardly curved portion having a lip to prevent endwise displacement of the mop.

In witness whereof, the applicant's signature is hereunto affixed in the presence of two witnesses.

LAWRENCE F. SCHMID.

Witnesses:

CHAS. O. OBER,

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