

Sept. 18, 1928.

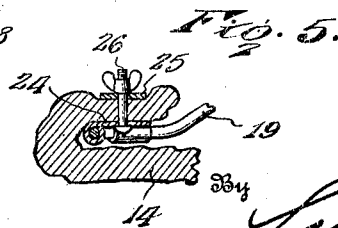
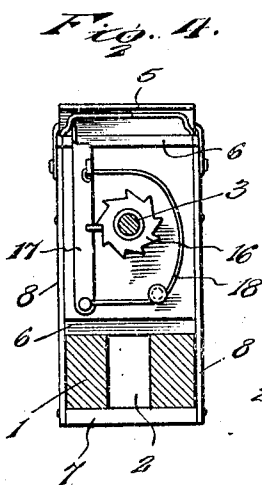
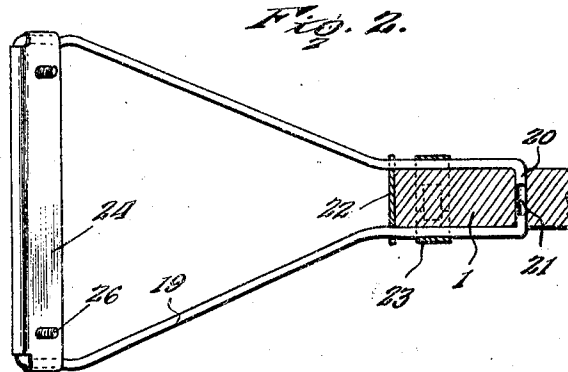
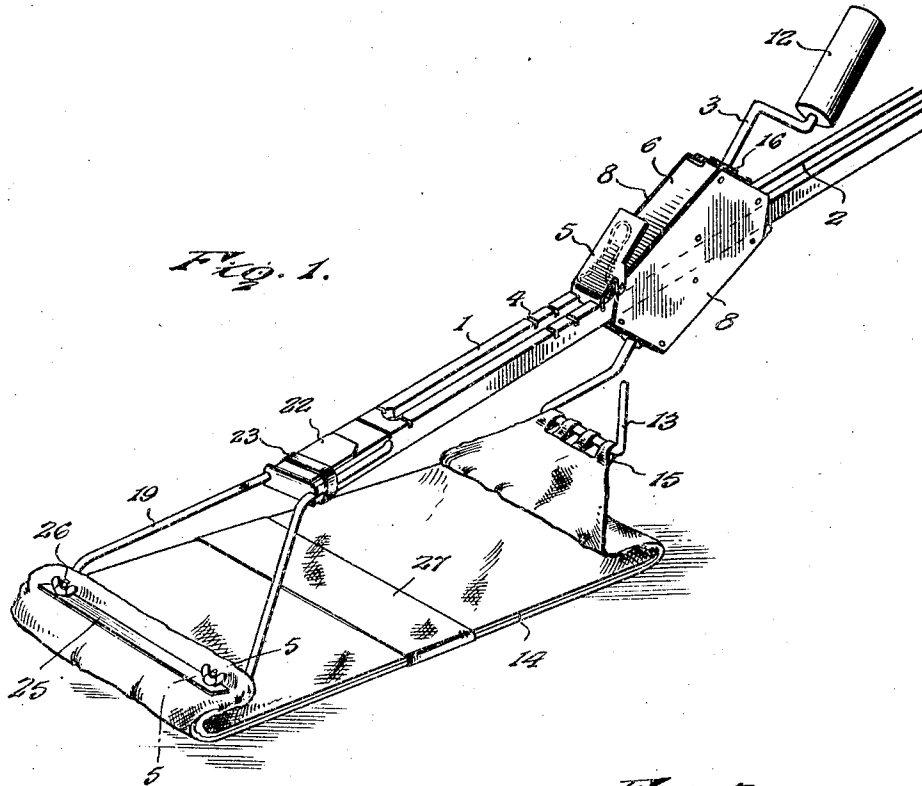
1,684,460

R. C. THOMPSON

MOP

Filed June 10, 1927

3 Sheets-Sheet 1



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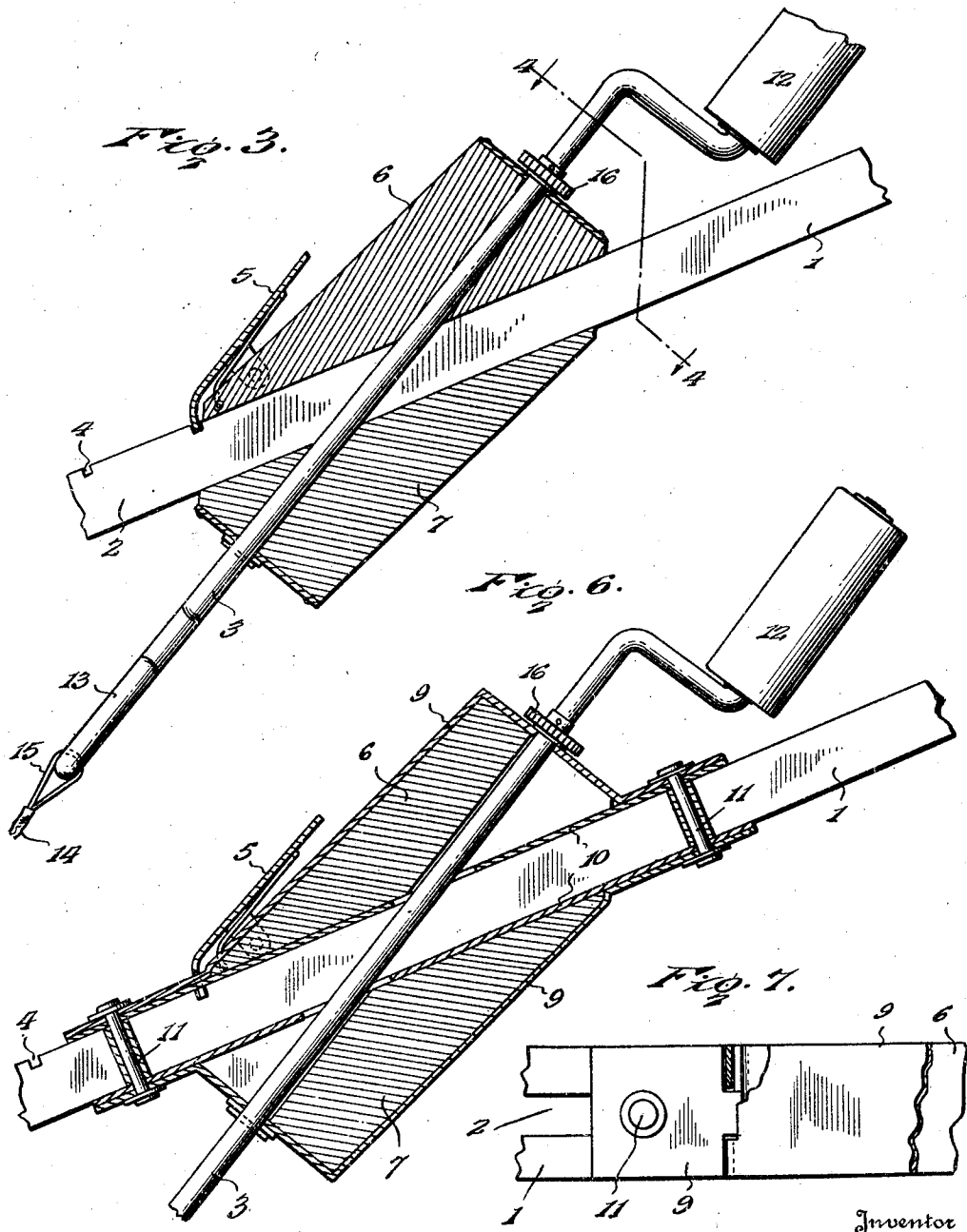
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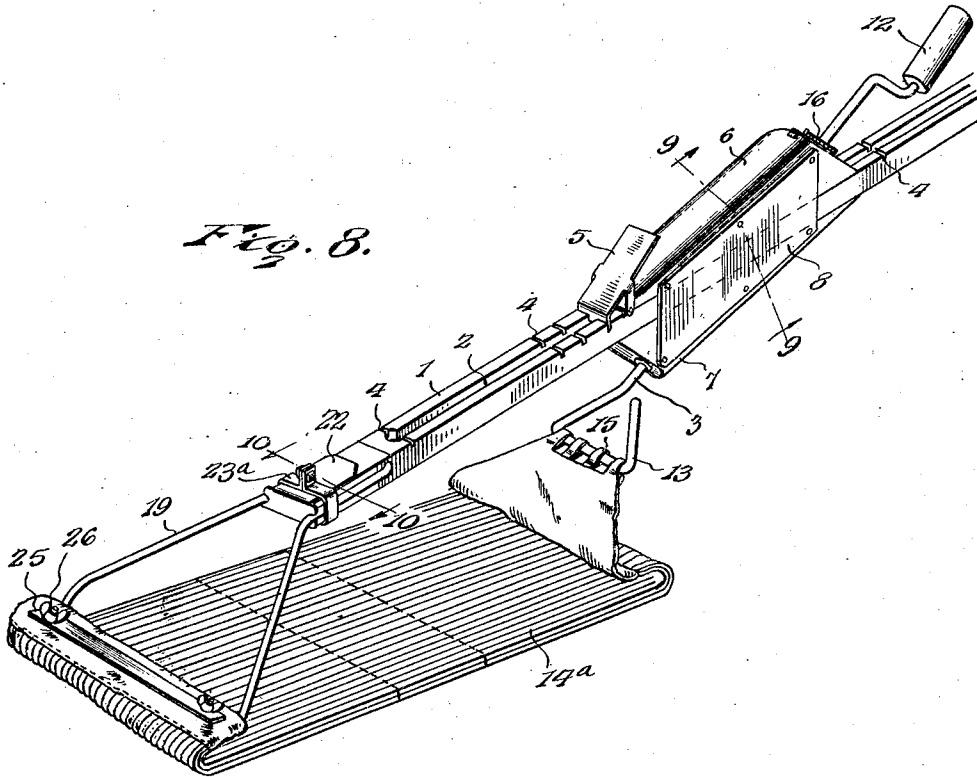


Fig. 9.

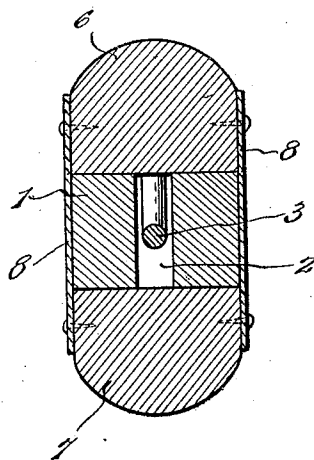
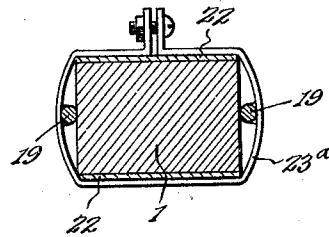


Fig. 10.



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UNITED STATES PATENT OFFICE.

ROSS C. THOMPSON, OF ENGLEWOOD, COLORADO.

MOP.

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This invention supplies a mop which, when in use will not injure furniture, the base board, or other article and which is compact in structure and easily and conveniently operable for wringing since it is free from side stresses.

The invention provides an article of the nature aforesaid in which the mop cloth is adapted to be maintained in flattened form and readily replaced, and which includes a head slidable upon the handle and provided with means for securing it in the required adjusted position.

While the drawings illustrate a preferred form of the invention, it is to be understood that in adapting the means to meet specific needs and requirements the design may be varied and such other changes in the minor details of construction may be resorted to within the scope of the invention as claimed, without departing from the spirit thereof.

For a full understanding of the invention and the merits thereof, reference is to be had to the following description and the drawings hereto attached, in which,—

Figure 1 is a perspective view of a mop embodying the invention, the upper portion of the handle being broken away.

Figure 2 is a plan view of the bail fitted to the handle and adapted to receive the forward end of the mop cloth.

Figure 3 is a central, longitudinal sectional view of the head, a portion of the handle upon which the head is slidably mounted and the crank shaft to which the rear end of the mop cloth is attached.

Figure 4 is a sectional view on the line 4—4 of Figure 3, looking in the direction of the arrows.

Figure 5 is a detail sectional view on the line 5—5 of Figure 1.

Figure 6 is a view similar to Figure 3 of a modification.

Figure 7 is a detail view of the forward end portion of the modification.

Figure 8 is a perspective view of a modification.

Figure 9 is a sectional view on the line 9—9 of Figure 8.

Figure 10 is a sectional view on the line 10—10 of Figure 8.

Corresponding and like parts are referred to in the following description and designated in the several views of the drawings by like reference characters.

The numeral 1 designates a handle which is usually of wood and which, in the present instance, has its forward end portion formed with a longitudinal slot 2 for reception of a crank shaft 3 which is disposed diagonally of the handle and extends above and below the same for a determinate distance. Transverse grooves 4 are formed in the top side of the handle 1 and intersect the longitudinal slot 2. A head is slidably mounted upon the forward portion of the handle 1 and receives the crank shaft 3 and is provided with a spring actuated catch 5 to coact with the grooves 4, whereby to hold the head in the required adjusted position.

The head embodies similar wedge-shaped members reversely disposed and connected. These members preferably consist of blocks of wood 6 and 7, which may be connected by side plates 8, as shown in Figures 1 and 4 of the drawings or by means of metal straps 9 and 10, and rivets 11, as shown in Figure 6. The straps 10 engage the top and bottom sides of the handle 1, whereas the straps 9 engage about the outer side of the respective blocks 6 and 7, the ends of the several straps projecting beyond the blocks and receiving the rivets 11 or analogous fastening, which pass through the longitudinal slot 2 of the handle. The straps 10 and also the end portions of the straps 9 are formed with openings for the passage of the crank shaft 3 which is mounted in the blocks.

The crank shaft 3 is provided at its upper rear end with a crank handle 12, and at its lower forward end with an eye 13, with which the rear end of the mop cloth 14 is detachably connected by means of loops 15. The eye 13 is open to provide for the ready ingress and egress of the loops 15. The crank shaft is rotatable in the head to admit of wringing the mop cloth 14 when expelling surplus water therefrom. A ratchet wheel 16 secured to the upper rear portion of the crank shaft adjacent the upper rear end of the head coacts with a pawl 17,

mounted upon the head to prevent backward rotation of the crank shaft when rotating the same to wring the mop cloth. The pawl 17 is pivoted at one end to the head and a spring 18 coacts therewith to normally maintain it in engagement with the teeth of the ratchet wheel 16. The pawl 17 may be manipulated to clear the ratchet wheel and admit of a counter-clockwise rotation of the crank shaft to restore the mop cloth to normal condition after being subjected to a wringing action.

A bail 19 is removably fitted to the forward end of the handle 1 and is of triangular form, and consists of a stout wire bent into the shape substantially as shown, the end portions being brought together against opposite sides of the handle and terminating in inwardly projecting extensions 20 which engage the transverse opening 21 formed in the handle. A clip 22 engages the end and top and bottom of the handle and its closed end projects beyond opposite sides of the handle, the projecting portion being notched to receive the attaching ends of the bail 19, whereby to prevent any swinging movement of the bail. A band 23 encircles the members of the clip 22 and the attaching end of the bail and moves said parts in close contact with the handle. When the band 23 is drawn back upon the handle so as to clear the clip and the attaching ends of the bail, the latter may be removed to admit of attachment of the mop cloth 14 thereto or for any other desired purpose.

A clamp is applied to the outer or forward end of the bail 19 and comprises complementary members 24 and 25, and connecting bolts 26. The member 24 has opposite end portions engaged about the side members of the bail 19 and a longitudinal edge portion engaged about the forward or closed end of the bail. This is indicated most clearly in Figure 2 of the drawings. The mop cloth 14 is folded about the forward end of the bail 19 and is made secure by means of the clamp, the bolt 26 passing through a folded portion, as indicated most clearly in Figure 5 of the drawings. The mop cloth is of a width in excess of the width of the bail, so as to project and prevent the sides of the bail and the ends of the clamp applied thereto from coming in contact with a base board, furniture or other article. In the event of the mop cloth being of a length to fold intermediate its ends the transverse strip 27 is employed to hold the folds together at a point between the eye 13 and the clamp applied to the bail. The head may be adjusted along the handle as found most advantageous and is made secure by catch 5 engaging one of the grooves 4. The crank shaft inclines upwardly and rearwardly from the front end of the handle and

projecting above and below said handle is not subjected to lateral stresses when rotated to wring the mop cloth. It is observed that the arrangement results in a compact structure which is free from lateral projections, hence the mop occupies a small space and may be easily and conveniently operated.

In the modification shown in Figure 8 the members or blocks comprising the head have their outer sides rounded and are longer and thinner than the corresponding parts of the other forms to provide a head that is adapted to be comfortably and positively gripped and which is neat in appearance. The band 23^a is in the nature of a clamp and may be tightened and loosened by means of a bolt. The mop cloth 14^a comprises a plurality of cords which are secured by means of transverse lines of stitching.

Having thus described the invention, I claim:

1. In a device of the character specified, a handle, a bail having end portions of its side members brought together against opposite sides of the handle and terminating in inner extensions which engage the handle, a clip having parts embracing the top and bottom of the handle and engaging the end thereof, the portion engaging the end of the handle projecting at the sides and notched to receive side portions of the bail, and a band encircling the clip and attaching ends of the bail to hold the same to the handle.

2. An article of the character specified comprising a longitudinally slotted handle, a bail removably fitted to the handle, a clamp on the bail, a head slidable along the handle and comprising reversely disposed wedge shaped blocks with the handle therebetween, means for securing the head to the handle in the required adjusted position, an upwardly and rearwardly inclined crank shaft passing through the slot of the handle and mounted lengthwise in the said head, and having an eye at its lower forward end, and a mop cloth engageable at one end with the eye of the crank shaft and at its opposite end with the clamp of the bail.

3. A mop comprising a longitudinally slotted handle, a head adjustable on the handle and comprising similar blocks with the handle therebetween, metal straps engaging the outer sides of the blocks and projecting beyond the ends thereof, fastenings passing through the longitudinal slot of the handle and engaging the projecting ends of the metal straps to retain the parts in place, a crank shaft passing through the longitudinal slot of the handle and mounted in the parts comprising the head, and a mop cloth connected at one end with the handle and at the opposite end with the crank shaft.

4. A mop including a longitudinally

slotted handle, wedge shaped blocks reversely disposed against the top and bottom sides of the handle, means connecting the blocks, a crank shaft mounted lengthwise of the blocks and passing diagonally through the slot of the handle, cooperating means between one of the blocks and the handle to secure the blocks in adjusted position, a mop cloth attached to the handle and crank shaft, and cooperating means on the crank shaft and one of the blocks to hold the mop cloth in wringing position. 10

In testimony whereof I affix my signature.

ROSS C. THOMPSON. [L. s.]