June 16, 1942. E. ALTLAND 2,286,944

MOP

Filed May 23, 1941

Fig. 1.

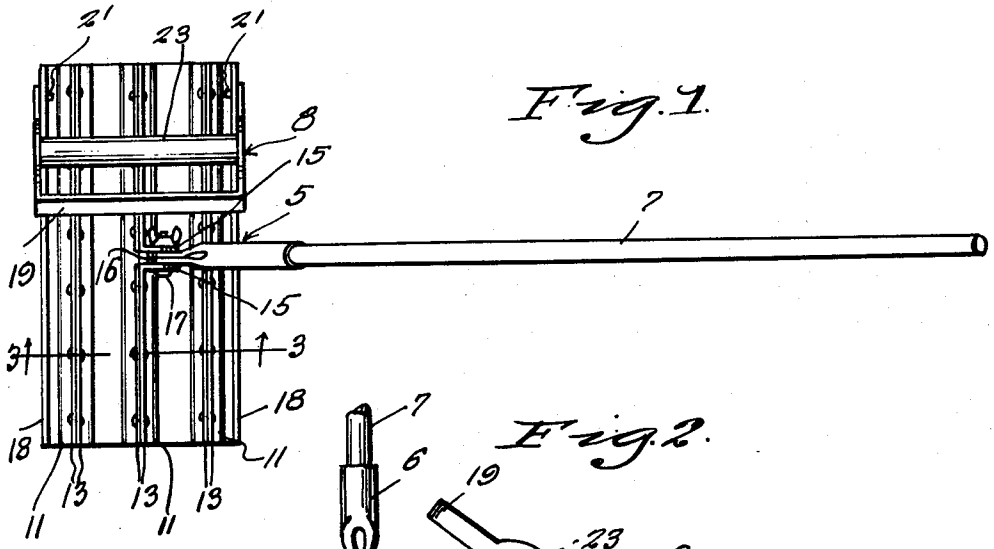


Fig. 2.

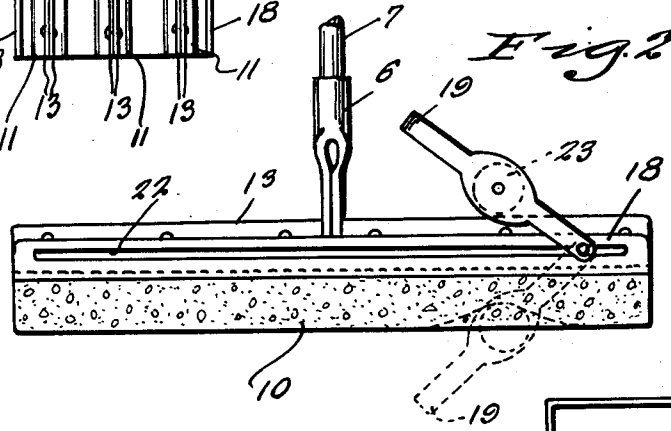


Fig. 4.

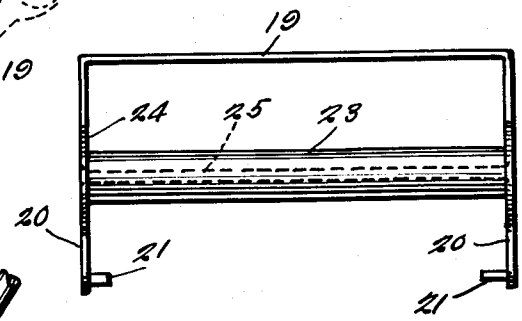
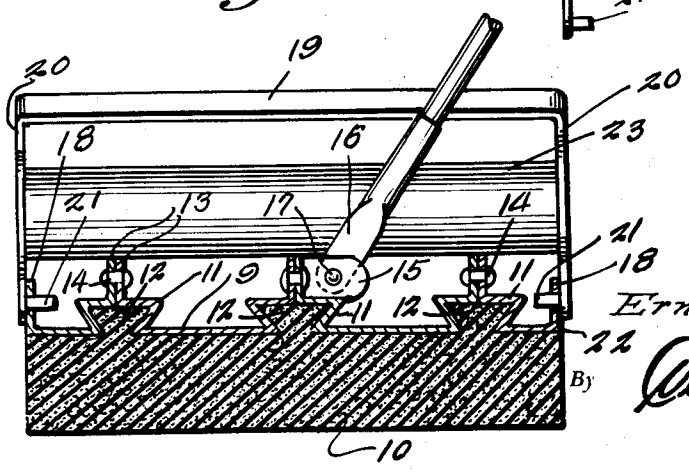


Fig. 3.



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MOP

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2 Claims. (Cl. 15—119)

This invention relates to mops and an object of the present invention is to provide a mop having associated therewith, in a convenient and easily operable manner, a wringer roller to the end that the cleaner element of the mop may be quickly and easily dried or semi-dried without the necessity of touching the cleaner element with the hand.

The invention together with its objects and advantages will be best understood from a study of the following description taken in connection with the accompanying drawing wherein:

Figure 1 is a top plan view of a mop embodying the features of the present invention.

Figure 2 is a front edge elevational view of the mop head with the handle shown fragmentarily.

Figure 3 is a transverse sectional view through the head taken substantially on the line 3—3 of Figure 1, and

Figure 4 is an elevational view of a wringer roller and associated handle.

Referring more in detail to the drawing it will be seen that in accordance with the present invention the mop embodies a head indicated generally by the reference numeral 5, a handle-accommodating socket 6 pivoted to the head in a manner hereinafter more fully referred to, a handle 7 having one end secured within the socket 6, and a wringer roller assembly, indicated generally by the reference numeral 8, and associated with the head 5 in a manner hereinafter detailed, so as to be readily brought into use for drying, or partially drying the cleaner element of the head 5.

The head 5 embodies a body plate of metal or other suitable material, indicated generally by the reference numeral 9, and a cleaning element 10 in the form of a block of sponge rubber or other suitable material.

The plate 9 of the head is provided with a plurality of spaced parallel, longitudinally extending dovetail grooves 11, while the cleaning element 10 is provided on one side thereof with a corresponding number of dovetailed ribs 12 that fit within the grooves 11, as clearly shown in Figure 3, to detachably secure the cleaning element 10 to the body plate 9.

To facilitate assembling the plate 9 and cleaner member 10, the plate 9, lengthwise of the grooves 11, is split longitudinally, and at the edges of the plate formed by such splitting, the plate is provided with upstanding flanges 13 through the medium of which and rivets or other fastening elements 14, the sections of the plate are secured together.

The flanges associated with the intermediate groove 11 are split, as clearly shown in Figure 1, to accommodate swinging movement of the handle-accommodating socket 6, and one of these flanges, as shown, has the ends thereof formed by the split therein directed laterally to form coextensive apertured ears 15 between which an integral shank portion 16 of the socket 6 is disposed, and to which said shank portion of the socket is pivoted as at 17.

At the longitudinal edges thereof the body plate 9 of the head 5 is provided with upstanding flanges 18 provided with slots 22 elongated longitudinally thereof.

The aforementioned wringer roller assembly 8 embodies a substantially U-shaped handle 19 that straddles the head 5, and the legs 20 of said handle, at the free ends thereof, are provided with inwardly directed pins 21 that engage in the slots 22 in a manner to secure the handle to the head and at the same time permit the roller assembly 8 to be shifted longitudinally of the head so that the roller 23 of the assembly may have wiping engagement with the cleaning element 10 for the full length and width thereof to effect a drying out of the cleaner element 10.

The roller 23 is rotatably supported between the legs 20 of the handle 19, and the intermediate portions of the legs 20 are laterally enlarged as at 24 to provide splash shields which will serve to prevent the water being pressed out of the cleaner 10 from squirting laterally and onto the user. As shown, the intermediate portions 24 of the legs of the handle are apertured so as to provide bearings for the axle rod 25 of the roller 23.

From the above it will be apparent that in the use of the device, excess water and dirt collected by the cleaner member 10 may be wrung or extracted therefrom by pivoting the handle 19 from the full line position shown in Figure 2 to substantially the dotted line position shown therein. With the roller assembly in this dotted line position, the operator, in an obvious manner, shifts the assembly lengthwise of the head 5 with the roller 23 in positive engagement with the cleaner 10. In so shifting the wringer-roller assembly the operator may apply as much pressure as desired to the handle for compressing the cleaner element 10 and thus effectively extract the water from the cleaner element.

It is also apparent that the roller assembly may

be reciprocated relative to the head with the roller 23 in contact with the cleaner 18 several times with ease to insure a thorough wringing out of the mop.

After the roller assembly has thus been used, the same is readily returned to the normal position shown in full lines in Figures 1 and 2, and in which position said assembly will in no wise, as is believed to be obvious, interfere with the use of the mop during the cleaning operation.

It is thought that the many advantages of a mop embodying the features of the present invention will be had without further detailed description.

It will also be understood that while I have herein illustrated and described what I consider the preferred embodiment of the invention, I am fully aware that changes may be made therein and as might be suggested to the user skilled in the art to which this invention relates.

Having thus described the invention what is claimed as new is:

1. In a mop of the character described, a head embodying a sponge rubber cleaning element, a sectional sheet metal backing plate having upstanding longitudinal flanges at the edges of the sections, the flanges of adjacent sections being connected together in clamping engagement with portions of the sponge rubber material, and the outermost flanges at each edge of the head having longitudinal slots therein, a handle member extending transversely of said head, trunnions on the handle slidably mounted in the slots for pivotal movement from one side to the opposite side of said head, and for reciprocatory movement longitudinally of the head, and a wringer roller journaled in said handle and shiftable therewith into engagement with the cleaner element for wringing the cleaner element incidental to a reciprocatory movement of the handle relative to said head.

2. In a mop of the character described, a head embodying a sponge rubber cleaning element, a sectional sheet metal backing plate having upstanding longitudinal flanges at the edges of the sections, the flanges of adjacent sections having a channel formed therein adapted to receive a portion of the sponge rubber material, said adjacent flanges being secured together to clamp the sponge rubber material therein, said sections also including side flanges at the side edges of the head and having longitudinal slots therein, a substantially U-shaped handle substantially straddling said head transversely thereof, said handle having the legs thereof provided with inwardly directed pins engaging in said slots, and a wringer roller rotatably supported between the legs of said handle.

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