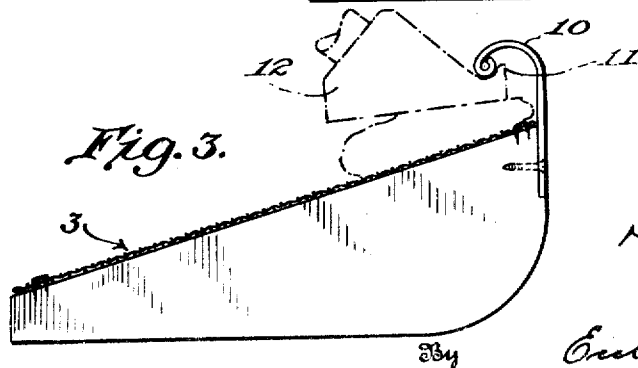
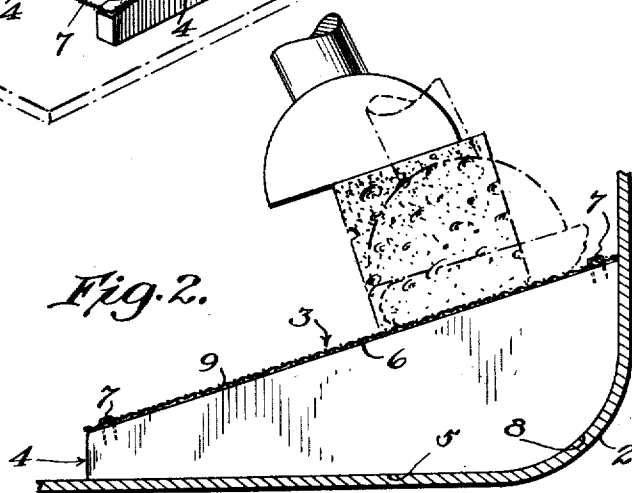
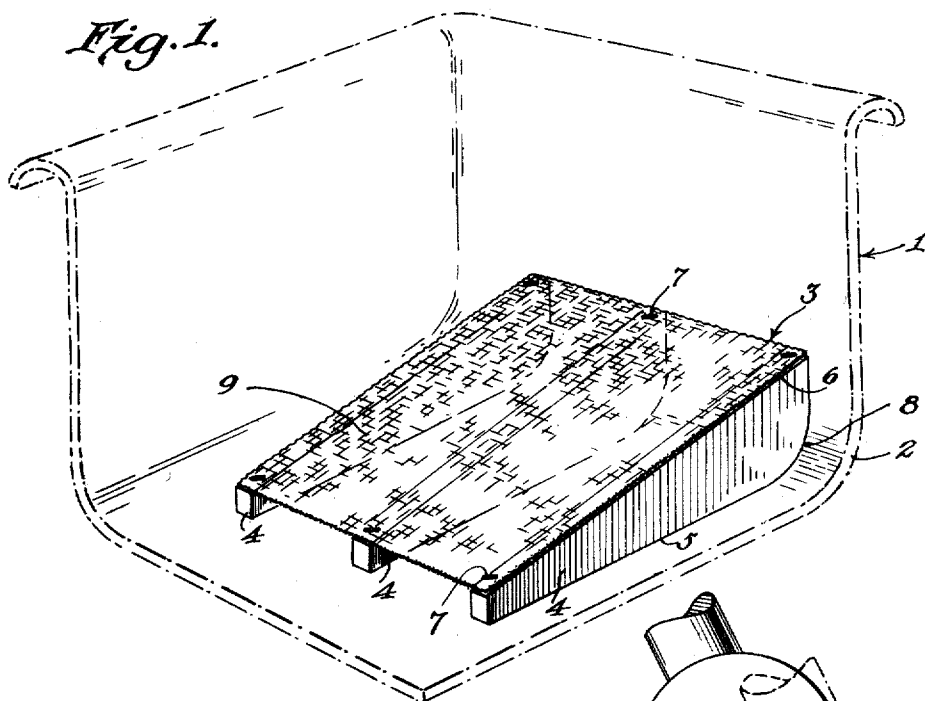


April 19, 1938.

S. P. VAUGHN
WRINGING SCREEN
Filed Sept. 9, 1936

2,114,891



Inventor
S. P. Vaughn

Escherton & Escherton,
Attorneys

Patented Apr. 19, 1938

2,114,891

UNITED STATES PATENT OFFICE

2,114,891

WRINGING SCREEN

Sidney P. Vaughn, San Diego, Calif.

Application September 9, 1936, Serial No. 99,984

4 Claims. (Cl. 15—260)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

This invention relates to wringing devices for mops and the like, and has special reference to a screen member on which a mop of the general type shown in my application Ser. No. 92,899, filed July 27, 1936, of which the present application is a continuation in part, may be both cleaned and wrung.

More specifically it is an object of this invention to provide a wringing device of simple and inexpensive construction, which may be placed in a sink, tub or other receptacle, and on which the mop may be wrung by simply pressing the same downward in substantially a direction at right angles to the screen surface.

A further object of the invention resides in designing a wringing screen which is adapted to fit against the bottom and back (or side) of a receptacle so as to be automatically held in place during the wringing action without the use of extraneous means.

Other objects and advantages of the invention will be apparent from the following description when taken in connection with the accompanying drawing, in which,

Figure 1 is a fragmentary perspective view of a tub or other receptacle, in dotted outline, and showing the novel wringer in place therein, also in perspective.

Figure 2 is a transverse sectional view of a portion of a receptacle and the wringing device, showing in dotted lines the position and condition of the mop material during the wringing action, and

Figure 3 is a side elevational view of a slightly modified wringer.

Referring to the drawing in more detail the numeral 1 indicates a portion of a tub, sink or the like shown as provided with rounded corners 2, and the numeral 3 designates the novel wringing device.

Although the base member of the wringer may be made of any desired material the construction depicted on the drawing comprises three wooden plates 4 of substantial thickness. These elements are provided with flat bottom edges 5 while their upper edges 6 are inclined downwardly and rearwardly as clearly indicated on Figure 2. The forward ends of the members 4 are shaped to fit a corner of the receptacle with which the wringer is to be used. In the present instance the corner, that is, the juncture between the bottom and sides of the receptacle, is rounded as indicated by numeral 2 and the forward ends of the members 4 are similarly rounded as indicated by numeral 8.

The upper edges 6 of the members 4 composing

the base are inclined downwardly so as to form an angle of about 20° to the horizontal in the present instance, and a sheet of foraminous material 9 is attached to these edges by staples 7 or the like, as indicated. This material may be composed of woven wire on suitably perforated sheet metal, the former being shown in the present embodiment of the invention.

While the inclination of sheet 9 is shown to be at approximately 20° to the horizontal it is to be understood that this angle may be increased to as high as 45°, the exact angle corresponding approximately to the angle which the particular type of mop head makes with the floor when in use.

Moreover, due to the fact that the wringer is best suited for use with a relatively large receptacle, it will be noted that the inclination of the foraminous material is such that when the wringer is in operative position against a wall of the receptacle the foraminous material, if extended in the same plane, would meet the bottom of the receptacle at a point spaced from the receptacle walls.

In the modification shown in Figure 3 the screen wringer is identical with that shown in Figures 1 and 2 except for the addition of the hooks or lugs 10 which are adapted for cooperation with a toe 11 formed on the mop head 12 as shown in my copending application heretofore referred to. In this construction a leverage action is provided for applying pressure to the mop material.

In the operation of the device the wringer 3 is placed in a sink, tub or the like, with its specially shaped end 8 in engagement with a corner of the receptacle and the screen inclining downwardly and rearwardly from the side wall at an angle to the horizontal corresponding approximately to the angle of the mop head. Downward pressure being applied to the handle, in a direction substantially parallel therewith the pressure will be transmitted to the bottom and adjacent side of the receptacle so that the wringer will remain stationary relative to the receptacle and the water will be wrung from the mop material. By reason of the predetermined inclination of the screen and the cooperation of the base with the corner of the receptacle the wringing pressure is automatically applied at the proper angle and thus the need of auxiliary means for holding the wringer in fixed position is eliminated. In this wringing operation certain portions of the mop material are deflected rearwardly and compressed by the heel portion of the mop head as disclosed

in my previously mentioned application and as indicated in dotted lines in Figure 2.

In the operation of the modified construction shown in Figure 3, the mop may be wrung in the manner just described, or, if a mop provided with a toe is being used, the same may be wrung by leverage action by merely placing the toe under the hook 10 and swinging the handle downwardly and rearwardly.

From the foregoing description and accompanying drawing it will be apparent that the wringer is of simple and inexpensive construction, and yet is highly efficient in the wringing of mops, especially those of the type disclosed.

In accordance with the patent statutes I have described in detail what I now consider to be the preferred embodiments of the invention, but inasmuch as various changes may be made in structural details without departing from the spirit of the invention, it is intended that such changes be included within the scope of the appended claims.

The invention described herein may be manufactured and used by or for the Government of the United States of America for governmental purposes without the payment of any royalties thereon or therefor.

What I claim is:

1. A wringer for mops and the like, comprising a base member adapted to fit against the bottom and side of a receptacle, and a sheet of foraminous material mounted in inclined position on said base member, the inclination being such that if the line of inclination were continued it would meet the bottom of the receptacle at a point spaced from the receptacle walls.

2. A wringer for mops and the like for use in a receptacle having a rounded joint between its bottom and side, comprising a frame member having a portion of its bottom and one end rounded to correspond to the interior of the receptacle, the upper surface of the frame being inclined downwardly and rearwardly from the rounded end, and a sheet of foraminous material secured to the inclined surface.

3. A mop wringer comprising a sheet of foraminous material adapted for wringing mops and the like by pressing the mop against the material, and a supporting frame adapted to fit against the bottom and side of a container to support the foraminous material in inclined relation to the bottom of the container.

4. A wringer for mops comprising a sheet of foraminous material adapted for wringing mops and the like by pressing the mop against the material, a supporting frame adapted to fit against the bottom and side of a container to support the foraminous material in inclined relation to the bottom of the container, and a mop-engaging lug attached to the supporting frame and overhanging a portion of the foraminous material.

SIDNEY P. VAUGHN.

Patent No. 2,114,891

SIDNEY P. VAUGHN

Granted April 19, 1938

The above entitled patent was extended October 2, 1951, under the provisions of the Act of June 30, 1950, for 7 years and 173 days from the expiration of the original term thereof.

Commissioner of Patents.

in my previously mentioned application and as indicated in dotted lines in Figure 2.

In the operation of the modified construction shown in Figure 3, the mop may be wrung in the manner just described, or, if a mop provided with a toe is being used, the same may be wrung by leverage action by merely placing the toe under the hook 10 and swinging the handle downwardly and rearwardly.

From the foregoing description and accompanying drawing it will be apparent that the wringer is of simple and inexpensive construction, and yet is highly efficient in the wringing of mops, especially those of the type disclosed.

In accordance with the patent statutes I have described in detail what I now consider to be the preferred embodiments of the invention, but inasmuch as various changes may be made in structural details without departing from the spirit of the invention, it is intended that such changes be included within the scope of the appended claims.

The invention described herein may be manufactured and used by or for the Government of the United States of America for governmental purposes without the payment of any royalties thereon or therefor.

What I claim is:

1. A wringer for mops and the like, comprising a base member adapted to fit against the bottom and side of a receptacle, and a sheet of foraminous material mounted in inclined position on said base member, the inclination being such that if the line of inclination were continued it would meet the bottom of the receptacle at a point spaced from the receptacle walls.

2. A wringer for mops and the like for use in a receptacle having a rounded joint between its bottom and side, comprising a frame member having a portion of its bottom and one end rounded to correspond to the interior of the receptacle, the upper surface of the frame being inclined downwardly and rearwardly from the rounded end, and a sheet of foraminous material secured to the inclined surface.

3. A mop wringer comprising a sheet of foraminous material adapted for wringing mops and the like by pressing the mop against the material, and a supporting frame adapted to fit against the bottom and side of a container to support the foraminous material in inclined relation to the bottom of the container.

4. A wringer for mops comprising a sheet of foraminous material adapted for wringing mops and the like by pressing the mop against the material, a supporting frame adapted to fit against the bottom and side of a container to support the foraminous material in inclined relation to the bottom of the container, and a mop-engaging lug attached to the supporting frame and overhanging a portion of the foraminous material.

SIDNEY P. VAUGHN.

Patent No. 2,114,891

SIDNEY P. VAUGHN

Granted April 19, 1938

The above entitled patent was extended October 2, 1951, under the provisions of the Act of June 30, 1950, for 7 years and 173 days from the expiration of the original term thereof.

Commissioner of Patents.

Patent No. 2,114,891

Granted April 19, 1938

SIDNEY P. VAUGHN

The above entitled patent was extended October 2, 1951, under the provisions of the Act of June 30, 1950, for 7 years and 173 days from the expiration of the original term thereof.

Commissioner of Patents.