Jan. 27, 1931. W. P. JOHNSON 1,790,476

TUB SUPPORT

Filed Oct. 5, 1929

Fig. 1.

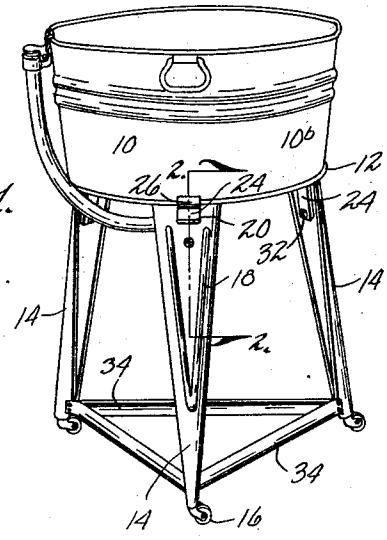


Fig. 2.

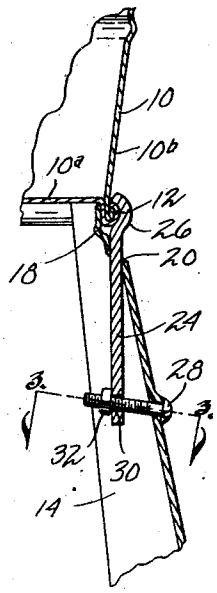


Fig. 4.

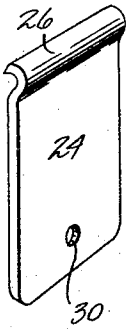


Fig. 5.

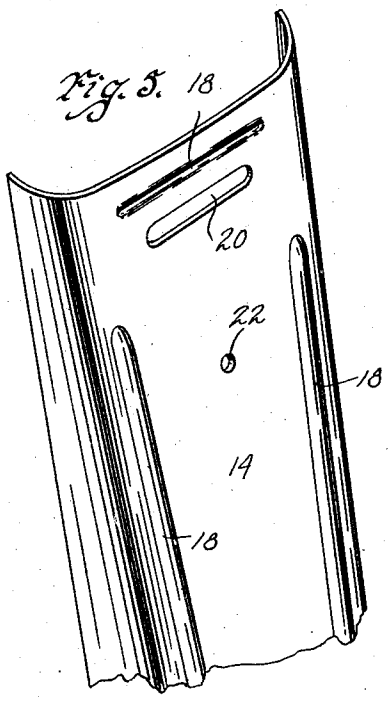
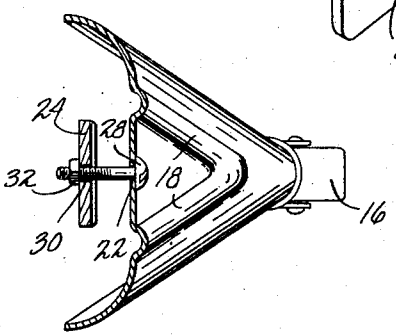


Fig. 3.



Witness
Linton Read.

Inventor
William P. Johnson
By Bair, Freeman & Sinclair
Attorneys

Patented Jan. 27, 1931

1,790,476

UNITED STATES PATENT OFFICE

WILLIAM P. JOHNSON, OF DES MOINES, IOWA

TUB SUPPORT

Application filed October 5, 1929. Serial No. 397,672.

My invention has to do with a tub support.

More particularly the purpose of my invention is to provide a simple and convenient means whereby a leg may be rigidly locked to the bottom of the tub.

With these and other objects in view my invention consists in the construction, arrangement and combination of the various parts of my device, whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which:

Figure 1 shows a perspective view of a tub having a support embodying my invention.

Figure 2 is a vertical sectional detail taken on the line 2—2 of Figure 1.

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

Figure 4 is a perspective view of the clamp; and

Figure 5 is a perspective view of the upper end of the tub leg before it is applied to a tub.

There exists today a considerable demand for some inexpensive readily portable support for extra tubs used in homes for domestic laundry purposes. It is common to use an ordinary tub and my purpose is to provide a very simple and inexpensive support for such a tub.

In the accompanying drawings I have used the reference numeral 10 to indicate generally a sheet metal tub of ordinary construction.

It is quite a common practice to provide a joint or seam at the bottom of the tub which forms a bead as indicated at 12. This bead projects downwardly from the bottom 10*a* of the tub 10 and also projects outwardly slightly from the side wall 10*b*.

There are many supports provided for tubs but in order to make such a support commercially practical and one which is very simple and cheap, I have provided a support which has three legs 14 forming structural members with relation to the tub 10.

The legs 14 are preferably in the form of inwardly opening sheet metal channels slightly tapered toward their lower ends as shown in Figure 1. If desired, the lower ends may be provided with casters 16. The legs 14 may be provided with reinforcing ribs 18 if desired.

Each leg is provided with a transverse slot 20 near its upper end and a hole 22 below the slot for the insertion of the clamp which will now be mentioned.

The upper end of the leg abuts against the bottom 10*a* of the tub 10 adjacent to the inner face or part of the bead 12 as shown best perhaps in Figure 2.

A clamp 24 may have the form of a substantially rectangular strip provided at its top with a transverse channel 26. The channel is preferably slightly curved from end to end to fit the curvature of the tub. The channel 26 at the upper end of the clamp 24 is fitted over the outer part of the bead 12 as shown in Figures 1 and 2 after the body of the clamp has been slipped through the slot 20 so as to thus give the clamp a rocking connection with the leg 14.

A bolt 28 is extended through the hole 22 in the leg 14 and also through the hole 30 in the lower part of the clamp 24 and receives a tightening nut 32 whereby the clamp is locked to the leg in such position as to cause the channel 26 to fit over and clip the bead 12 for thus firmly locking the leg to the bottom of the tub. This locking operation somewhat distorts the upper end of the leg 14 from the shape shown in Figure 5 to the shape shown in Figure 2, which places the parts under a tension and thereby prevents them from readily becoming loosened.

The three legs 14 are similarly secured to the bottom of the tub and are preferably so arranged that they incline downwardly and slightly outward as shown in Figure 1. At their lower ends, the legs 14 are preferably braced and connected together by means of braces 34.

It will be seen from the foregoing that I have provided a tub support of very simple construction which can be locked rigidly to the tub without extending any bolts or rivets through the tub and in such manner that it may be readily and easily removed from the tub.

The type of clamp device and the manner in which it cooperates with the leg makes

it easy to adapt my support to this tub even though the beads of the tubs should vary considerably in size.

It is my purpose to cover by my claims the modified forms of structure or use of mechanical equivalents which may be reasonably included within their scope.

I claim as my invention:

1. In a tub support, a leg having a part at its upper end adapted to be seated against the under side of the bottom of a tub of the kind having a downwardly and outwardly projecting bead, adjacent to said bead, said leg having a transverse slot spaced from its upper end, and a coacting clamp loosely inserted through said slot having a gripping member adapted to be fitted over said bead, and means for adjustably locking the lower end of said clamp to said leg for gripping said bead between the leg and said gripping member.

2. In a tub support, a leg having a part at its upper end adapted to be seated against the under side of the bottom of a tub of the kind having a downwardly and outwardly projecting bead, adjacent to said bead, said leg having a transverse slot spaced from its upper end, and a coacting clamp loosely inserted through said slot having a gripping member adapted to be fitted over said bead, a member projected through both of said above-described elements having a head at one end and a threaded portion at the other end, and a nut on said threaded portion, whereby said leg and clamp may be locked together for gripping said bead between the leg and the gripping member.

Des Moines, Iowa, July 15, 1929.

WILLIAM P. JOHNSON.