July 15, 1930. H. G. WOEHLER 1,770,664

PORTABLE KNOCKDOWN LEG SUPPORTED WASHTUB

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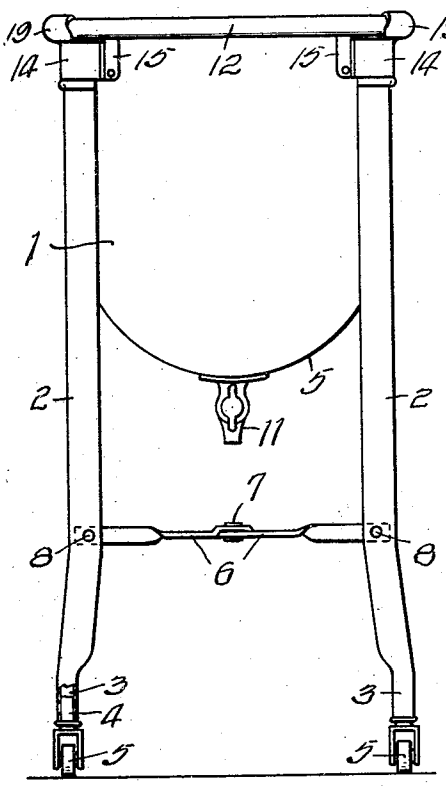


Fig. 1.

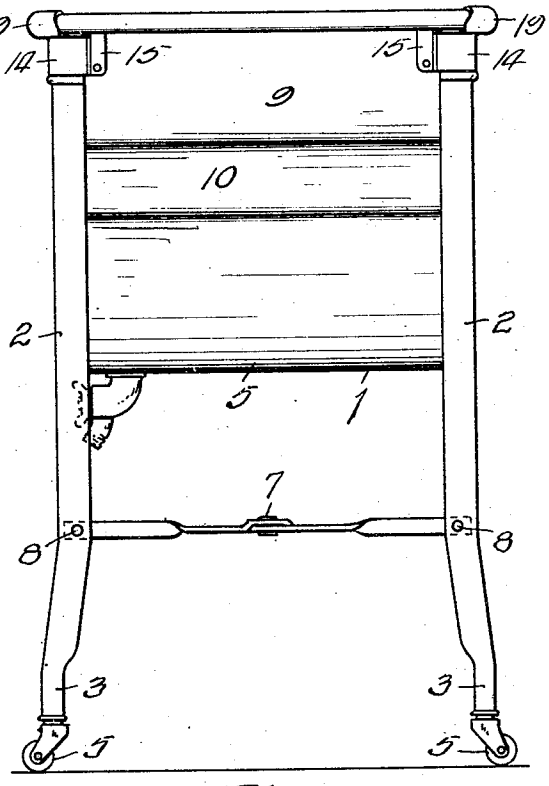


Fig. 2.

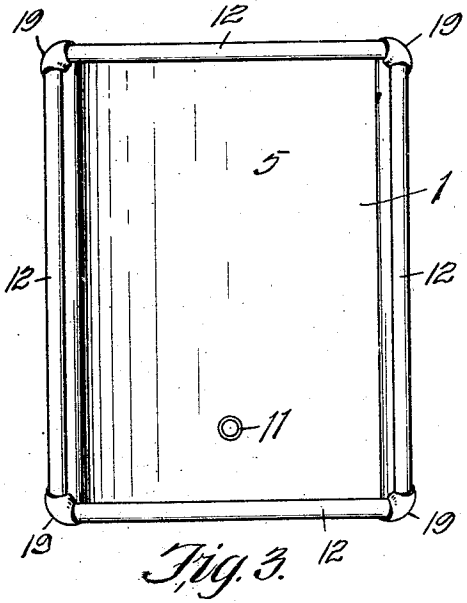


Fig. 3.

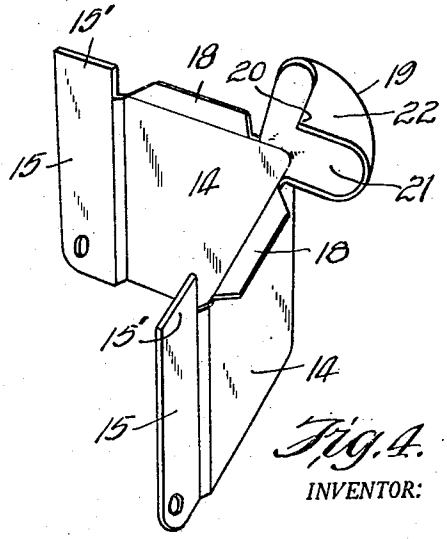


Fig. 4.

INVENTOR:

BY Henry G. Woehler.

Fredk. J. Sharon.

ATTORNEY.

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PORTABLE KNOCKDOWN LEG SUPPORTED WASHTUB

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Fig. 5.

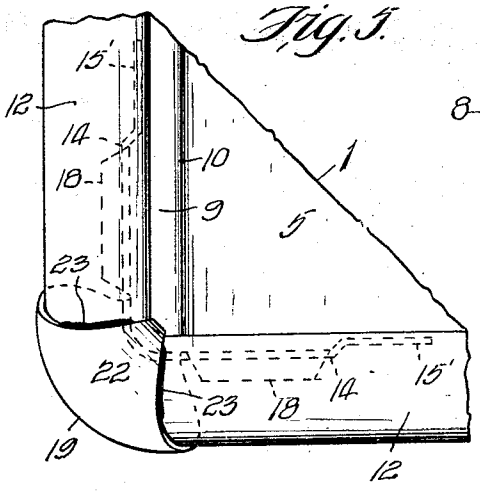


Fig. 6.

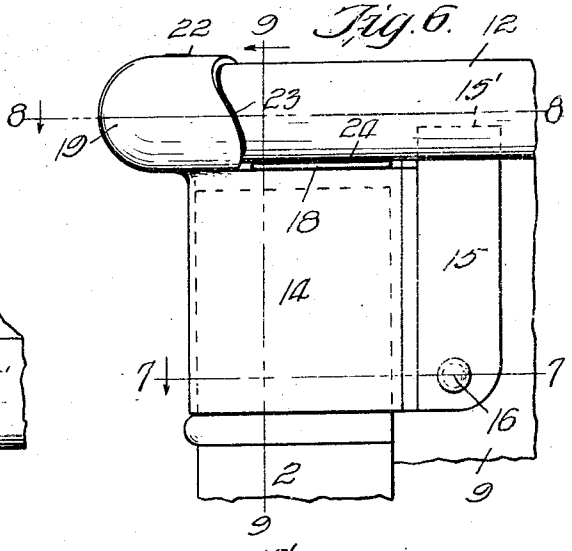


Fig. 7.

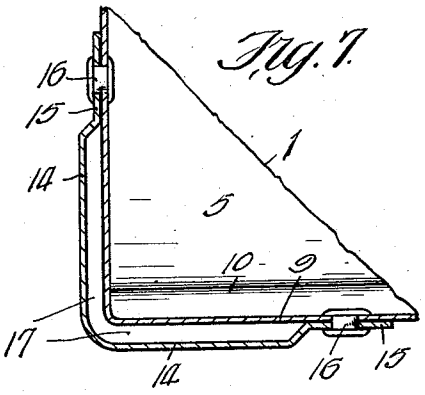
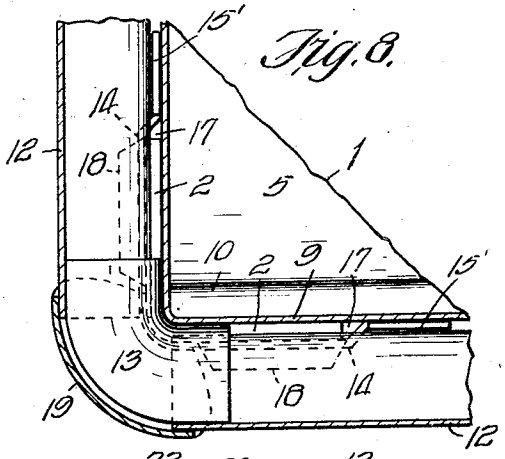


Fig. 8.



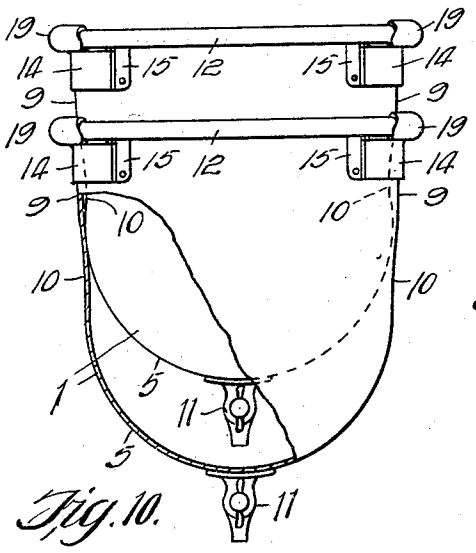


Fig. 10.

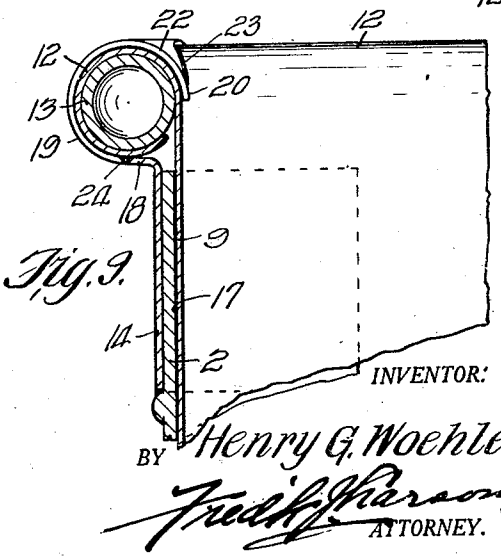


Fig. 9.

INVENTOR:
Henry G. Woehler.
BY
Fred'k J. Parsons
ATTORNEY.

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UNITED STATES PATENT OFFICE

HENRY G. WOEHLER, OF ST. LOUIS, MISSOURI, ASSIGNOR TO NIEDRINGHAUS, INC., OF ST. LOUIS, MISSOURI, A CORPORATION OF MISSOURI

PORTABLE KNOCKDOWN LEG-SUPPORTED WASHTUB

Application filed February 2, 1928. Serial No. 251,310.

This invention relates to portable knock-down leg supported wash-tubs, and, it is a distinct and practical improvement to overcome certain practical objections to, and defects in leg supported wash-tubs.

An object of my present invention is to provide means to reinforce, or strengthen the upper split corners of the tub, or basin and which means provides sockets for the reception of the upper ends of supporting legs and also includes means for receiving and capping its respective split rolled edge corner of the tub, or basin.

A further object of the invention is to secure portions of the corner strengthening means to the rolled edge of the tub, or basin, such for instance as with solder or by welding the same thereto.

A still further object of the invention is to provide a tub, or basin body so shaped that two or more can be nested for handling, storage and transportation with the legs and braces detached therefrom for shipment and handling thereof in knock-down formation.

A still further object of the invention is the provision of a portable detachable leg supported knock-down and nestable wash-tub, which possesses advantages in points of simplicity and efficiency, and, at the same time proves itself comparatively inexpensive in cost of manufacture.

With the above and other objects in view, the invention consists in the novel features of construction, arrangement and combination of parts hereinafter more fully described and finally pointed out in the claims hereto appended.

Referring to the accompanying drawings forming a part of this specification, wherein like characters of reference denote similar parts throughout the several views:

Fig. 1, is an end elevation of a portable leg supported wash-tub embodying the features of my invention.

Fig. 2, is a side elevation thereof.

Fig. 3, is a top plan view of the wash-tub.

Fig. 4, is a perspective view of one of the corner members of the tub or basin.

Fig. 5, is a top plan view of one corner of the wash-tub.

Fig. 6, is a side elevation thereof.

Fig. 7, is a sectional view taken on line 7—7 of Fig. 6.

Fig. 8, is a sectional view taken on line 8—8 of Fig. 6.

Fig. 9, is a sectional view taken on line 9—9 of Fig. 6.

Fig. 10, is a view illustrating two basins as nested.

In the drawings, the reference numeral 1 designates a metallic wash-tub, or basin having a rectangular top opening and a transversely curved bottom wall which is supported by means of a plurality, preferably four detachable supporting legs designated 2. The supporting legs 2 are preferably right angular in cross-section upward from a point near their lower ends and which lower ends are preferably formed so as to provide sockets 3 to receive the shanks 4 of suitable roller casters 5. The four legs 2 are braced below the transversely curved bottom wall 5′ of the basin 1 by means of a pair of crossed members 6 which are pivoted at their center, as at 7 and connected at their ends to the supporting legs 2 by means of stove bolts, or equivalent fastening devices 8 so that they may be readily connected to, or disconnected from the supporting legs 2. The above arrangement permits of the device being shipped in knock-down form and assembled either by the merchant or the ultimate purchaser.

Two or more basins 1 are capable of being nested for shipment so as to take up little room, and the side walls 9 of each basin are curved slightly inwardly as at 10, so as to cause the basins to nest in such a manner that the drain cock 11 of one basin will not contact with the curved bottom wall 5′ of the basin next below.

The upper edge of the basin 1 is rolled, as at 12 on all four sides and each corner of the upper rolled edge 12 is provided with a tubular right angular shaped corner member 13, the ends of which are receivable in the ends of two of the rolled edge portions 12, as clearly shown in Fig. 8.

The means for further reinforcing the corners of the basin 1 and providing the neces-

sary sockets for receiving the upper ends of the supporting legs consists of a member for each corner comprising a right angular metallic corner member, preferably a stamping, although not necessarily limited thereto, to provide two continuous plates 14 each of which are depressed along the inner edge of the base portions 15 thereof so that when the base portions 15 are positioned upon one end and one side wall of the basin and secured thereto by means of rivets, or equivalent fastening devices 16, there will be formed between plates 14 of each angular corner member and one end and one side wall of the basin, a right angular socket 17 to receive the upper end of its respective supporting leg 2, as clearly shown in Figs. 6, 7, and 9. The upper end of each base portion 15 of each corner plate extends upwardly as at 15' beyond the upper edges of the plates 14 and they are receivable between the upper rolled edges 12 and the walls of the basin, as will be apparent from Figs. 5 and 6. The upper edge of both plates 14 of each corner member is provided with an outwardly directed lip 18 which are adapted to contact with the underface of the rolled upper edge 12 of the basin 1, as clearly shown in Figs. 6 and 9.

The most essential feature of each corner piece resides in a cap, keeper or crown designated 19 and which is formed as an integral part of the two plates 14 of each corner member. This cap, keeper or crown member is directed outwardly from the upper edge of the two plates 14 of each corner member and is then curved upwardly and finally directed forwardly terminating in a point 20 so as to provide a pocket or socket 21 to receive the corners of upper rolled edge 12 of the basin 1. After the corner members have been applied to the walls of the basin at the upper corners thereof, the tapered upper wall portion 22 of the keeper is pressed into contact with the upper rolled edge of the basin so as to conform to the contour of the corners thereof. To further insure the keeper from any possible displacement with relation to the upper rolled edge of the basin 1, the side edges of the keeper are soldered, as at 23 to the upper rolled edge of the basin and likewise the outer edge of the lips 18 are also soldered to the upper rolled edge of the basin 1, as at 24.

From the foregoing description, it is evident that I provide a portable leg supported wash-tub having a corner member for each corner of the tub which not only provides the sockets to the legs to fit into, but which materially strengthens and reinforces the corners of the basin by means of the cap, keeper or crown 19 which is an integral part of the corner member.

Further, it will be apparent that the legs can be readily attached and detached from the corner members and folded so that the basins can be readily nested and that by this arrangement, the entire tub can be handled and transported in knock-down form to be assembled remote from the place of manufacture.

The many advantages of the herein described invention will readily suggest themselves to those skilled in the art to which it appertains.

From the foregoing description, it is evident that a simple device for this purpose has been disclosed, but it is to be understood that I do not desire to restrict, or limit myself to the very details of the construction shown and described, which is merely illustrative, it being obvious that changes, not involving the exercise of invention, may be made without conflicting or departing from the spirit of the invention within the scope of the appended claims.

What I claim is:

1. A corner member for wash-tubs comprising a right angular shaped plate, offset base portions formed at the side edge portions of said plate which extend upwardly beyond the upper edge of the plate and an outwardly and upwardly directed concaved cap integral with the upper corner edge of said plate.

2. A corner member for metallic wash-tubs comprising a right angular plate, offset side end portions for said right angular plate having their lower ends provided with fastener receiving openings, the upper ends of said offset portions extending above the upper edge of the remaining portion of said right angular plate and a socket member integral with the upper corner edge of said right angular plate and extending outwardly beyond the outer faces of said right angular plate.

3. A corner member for metallic wash-tubs comprising a right angular plate, offset side portions for said right angular plate having their lower ends provided with fastener receiving openings, the upper ends of said offset portions extending above the upper edge of the remaining portion of said right angular plate, a socket member integral with the upper corner edge of said right angular plate and extending outwardly beyond the outer faces of said right angular plate and a pair of outwardly directed flanges extending from the upper edges of the right angular plate and disposed between the upper ends of the offset portions of said plate and the corner socket.

4. The combination with the wall of a wash-tub having an upper rolled edge and an angle iron supporting leg for said tub, of a corner piece having offset side edge portions adapted to be applied to the outer face of the tub at an upper corner thereof to provide a socket to receive the upper end of said leg and a cap integral with the upper corner edge of said corner piece adapted to be clamped into

engagement with the outer face of the rolled upper edge of the tub to provide a reinforced round corner for the tub.

5. In a corner piece for wash-tubs to provide a leg socket when applied to the corner of a tub, a single sheet of metal fashioned into right angular form with the side edge portions thereof depressed to provide offset base portions each having a fastener receiving opening, said base portions having their upper ends extending above the remaining upper edge of the corner piece, an upper corner extension fashioned to form a cap adapted to be forced into engagement with the upper rolled edge of a metallic tub to provide a curved corner therefor.

6. In combination with the corner of a wash-tub having an upper rolled edge and an angle iron supporting leg for the tub, of a metallic corner plate substantially right angular in shape, said corner plate having its side edge portions offset for contact with the wall of the tub at the corner thereof, means for securing the corner plate to the wall of the tub to provide substantially right angularly shaped leg receiving passages between the corner plate and the tub wall, the offset portions of the corner plate having their upper ends disposed between the wall of the tub and the rolled upper edge thereof and a socket directed from the upper corner of the corner plate adapted to embrace the outer face of the upper rolled edge of the top at the corner thereof.

7. In combination with the corner of a wash-tub having an upper rolled edge and an angle iron supporting leg for the tub, of a metallic corner plate substantially right angular in shape, said corner plate having its side edge portions offset for contact with the wall of the tub at the corner thereof, means for securing the corner plate to the wall of the tub to provide substantially right angularly shaped leg receiving passages between the corner plate and the tub wall, the offset portions of the corner plate having their upper ends disposed between the wall of the tub and the rolled upper edge thereof, a socket directed from the upper corner of the corner plate adapted to embrace the outer face of the upper rolled edge of the top at the corner thereof and the upper edge of the corner plate being outwardly flanged between the upper ends of the offset portions and the socket.

8. In a corner construction for the upper rolled edge of a wash-tub, a corner member connecting the upper rolled edges of two sides of the tub, said member comprising a cap fashioned to form a socket adapted to receive ends of the two adjacent upper rolled edges of the tub, a plate fashioned into right angular formation integral at its upper corner edge with the cap and extending downwardly therefrom, offset side edge portions on said right angular plate adapted to engage the outer faces of the two walls of the tub to provide with the outside tub walls right angular leg receiving sockets, means for securing said offset portions to the two walls of the tub, the upper ends of said offset portions adapted to be received between the tub walls and the upper rolled edges thereof and outwardly directed flanges formed at the upper edge of said right angular plate adapted to engage the under face of the upper rolled edge of the tub.

In testimony whereof, I have hereunto affixed my signature.

HENRY G. WOEHLER.