June 22, 1948. F. B. GIVENS 2,443,954

INTEGRAL SHEET METAL MOP WRINGER ATTACHMENT FOR PAILS

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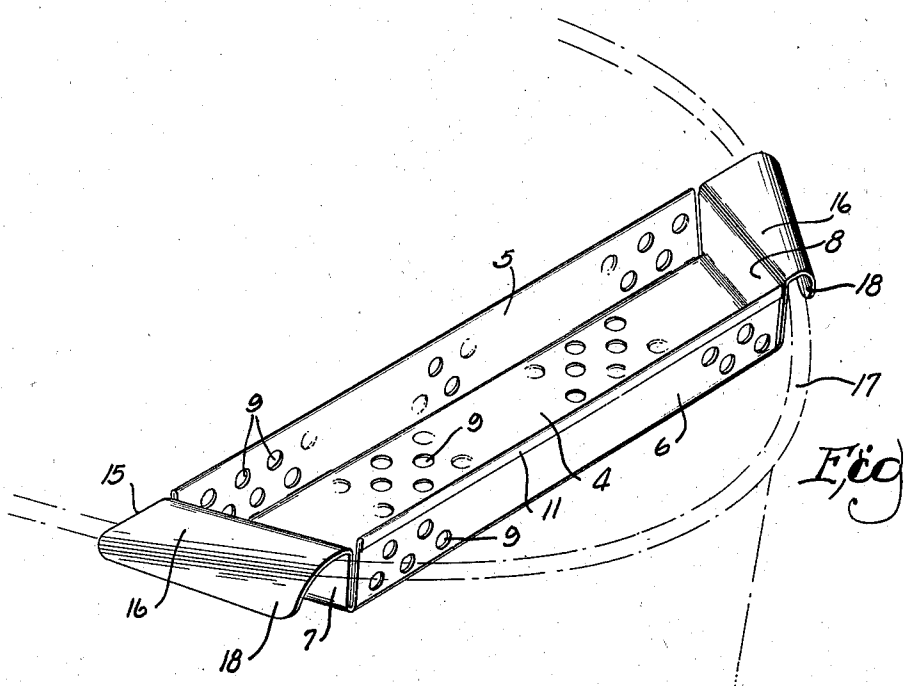


Fig. 1.

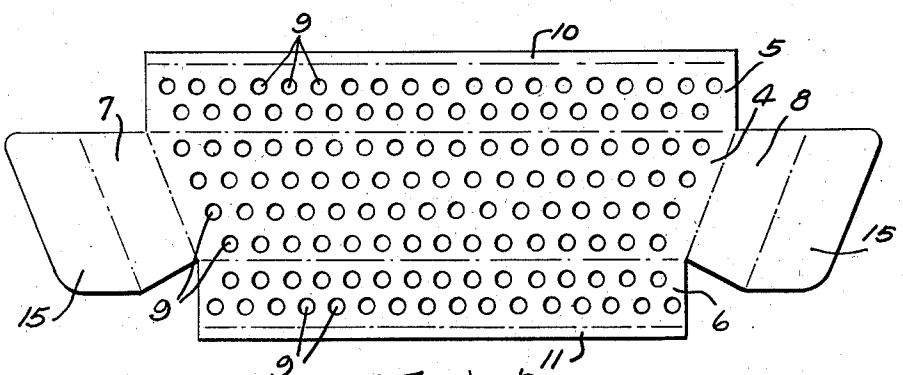


Fig. 2.

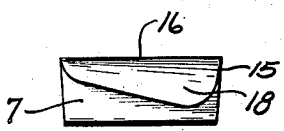


Fig. 3

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INTEGRAL SHEET METAL MOP WRINGING ATTACHMENT FOR PAILS

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3 Claims. (Cl. 15—260)

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This invention relates to improvements in mop wringing attachments for pails.

The general concept of such an attachment is old. The object of the present invention is to simplify and improve the structure whereby it may be economically manufactured and easily used. More specifically, it is my purpose to provide a device of this character which may be made in one piece from a single blank, readily shaped to form and securely engageable with pails of varying sizes within the range of its capacity.

In the drawings:

Fig. 1 is a view in perspective showing a device embodying my invention, the outlines of a pail to which the device is applicable being indicated in broken lines.

Fig. 2 is a plan view of the blank from which the device of Fig. 1 is shaped.

Fig. 3 is an end view of the device shown in Fig. 1.

In the blank shown in Fig. 2, the broken lines indicate where folds are to be made in the metal in the completion of the device. The portions of the blank between the indicated fold lines may be regarded as panels, whereof the panel 4 is to constitute the bottom of the completed device, panel 5 constitutes the longer side thereof, panel 6 constitutes the shorter side thereof, and panels 7 and 8 constitute the ends.

At least panels 4, 5 and 6 are preferably provided with apertures 9 as shown in Fig. 2 and indicated in Fig. 1. To provide strength and finish, the edges of the side panels 5 and 6 are beaded by folding outwardly and downwardly the unapertured marginal portions 10 and 11 thereof.

Support is provided by the mounting webs 15 connected to the end panels 7 and 8 which are given the peculiar form shown in Figs. 1 and 3. Horizontal portions 16 of the mounting webs are approximately horizontal and adapted to rest on the upper rim 17 of a pail. These mounting portions 16 are generally triangular in plan as clearly appears in Fig. 1. They have wider ends at the side of the device at which the longer side panel 5 is located. Beyond the horizontal mounting portions 16 of the webs 15, such webs are rolled downwardly to provide generally triangular hook portions 18 which, engaged over the side of the pail, prevent material displacement of the device from the position in which it is mounted.

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At the narrower end of the horizontal portions 16 the hook portions 18 are relatively wide in their downward extension and relatively close to the pail, affording just sufficient clearance to receive the beaded margin 17 of the pail. The divergence of the hook portions 18 from the respective end walls 7, 8 toward the longer side 5 of the device permits the device to accommodate pails of differing diameters. The fact that the horizontal portion 16 of the mounting web is broad and flat tends to assure a very stable mounting on the pail.

It is an important feature of the invention that the organization of the device disclosed is complete in one piece without requiring separate fabrication of any part or attachment of any other part to the device. It will be noted that the side walls are free of any connection with the ends and the entire assembly is suspended or cradled by the hooked extensions of the ends, between which the bottom of the pan shaped structure constitutes the only connection.

A mop inserted in the resulting trough-like structure shown in Fig. 1 can be pressed by means of its handle against the foraminous walls to squeeze the dirty water from the mop, such water running through the apertures 9 back to the pail.

I claim:

1. A one-piece mop wringing attachment for a pail, said attachment comprising a shallow sheet metal pan having bottom, side and end walls, at least some of which are foraminous, and mounting webs comprising hooked sheet metal extensions from the upper margins of the end walls and integral therewith, the side and end walls having side margins exposed and the bottom being dependent for support on the end walls only.

2. The device of claim 1, in which the said mounting webs have substantially triangular portions approximately parallel to the bottom wall and hooked flanges depending marginally therefrom in spaced relation to the end walls.

3. A device of the character described comprising in one piece of sheet metal a shallow pan having foraminous bottom and side walls, and having end walls provided at their upper margins with generally triangular flat web extensions in general parallelism with the bottom wall of the pan, said side and end walls having exposed side margins mutually spaced, the entire device being

wholly dependent for support during use upon the end walls and said extensions, said pan being shorter on one side than on the other and the said triangular extensions having their broader ends opposite the longer side of the pan, the said extensions having depending hooks in spaced relation to the end walls of the pan, said hooks greatest depth being opposite the shorter side of the pan.

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