Feb. 10, 1953 S. F. WILLIAMS 2,627,982

MULTIPLE UNIT WALL BIN

Filed March 20, 1951

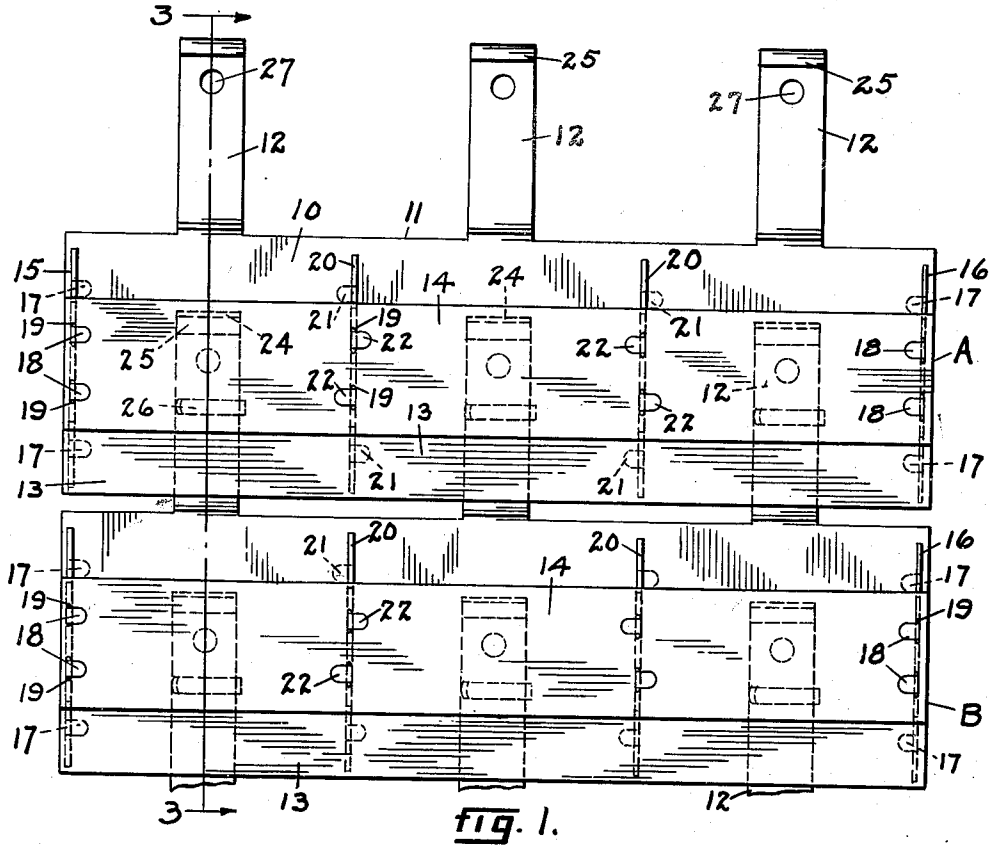


fig. 1.

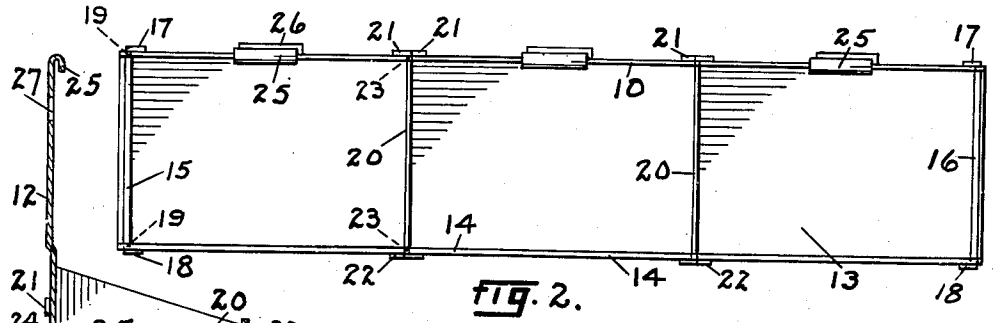


fig. 2.

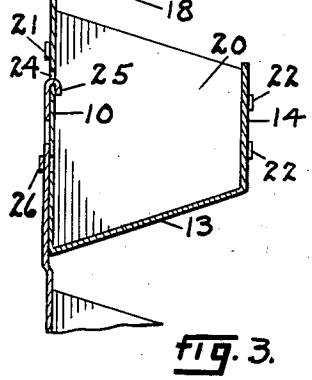


fig. 3.

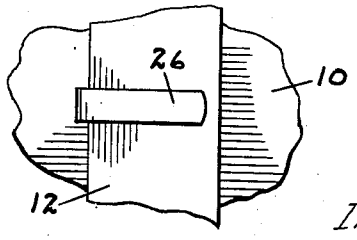


fig. 4.

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MULTIPLE UNIT WALL BIN

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1 Claim. (Cl. 211—88)

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This invention relates to a structure wherein a multiple number of separate bin units may be hung one after another in vertical relation to be suspended against a vertically disposed wall.

A primary purpose of the invention is to provide an exceedingly simple construction in the various units which may be assembled in various lengths and attached one to another to give the desired number of bins in vertical as well as horizontally disposed rows. The bins are intended to hold small parts as a rule, such as screws, bolts, nuts, washers, and the like for ready accessibility in assembling operations. It is also a purpose of the invention to provide a structure of the nature indicated which may be produced and sold at a relatively low price, and yet which will be extremely durable over a long period of time.

Other objects and advantages will become apparent to those versed in the art in the following description of one particular form of the invention as illustrated in the accompanying drawing, in which

Fig. 1 is a view in front elevation of a structure embodying the invention;

Fig. 2 is a view on top plan;

Fig. 3 is a view in vertical transverse section on the line 3—3 in Fig. 1; and

Fig. 4 is a detail on an enlarged scale of an arm retaining device.

The structure is preferably made out of sheet metal to have a primary back wall 10, from the upper edge 11 of which there extends a plurality of supporting arms 12, herein shown as three in number. The back wall 10 has integrally turned upwardly and forwardly from a lower portion thereof, a floor 13. The floor 13 is provided with a forwardly upwardly turned portion to form a front wall 14. In other words the rear wall 10, the floor 13, and the front wall 14 is one integral piece of material. For convenience, the floor 13 is herein shown as being inclined forwardly and upwardly.

End walls 15 and 16 respectively are formed to be planar in shape, and to have tongues 17 and 18 on their rear and front vertical edges respectively, these tongues being inserted through slots 19 provided in the back and front walls 10 and 13, to receive the tongue therethrough and have them bent over onto the respective walls 10 and 13 as indicated in the drawing.

The desired number of intermediate partitions 20, herein shown as two in number are spaced intermediate the end walls 15 and 16, to have rear and front tongues 21 and 22 respectively

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passed through slots 23 in the rear and front walls so that these tongues may respectively be bent over on to the rear and front sides of those walls.

The back wall 10 is provided with a plurality of horizontally disposed slots 24, each slot being centrally aligned on a central vertical axis through the arms 12. The upper end of each arm 12 is provided with a forwardly and downwardly turned hooked end 25 which is proportioned to slip forwardly through the respective slot 24 below.

That is, taking one unit designated by the letter A and bringing a second unit of like construction designated by the letter B, the tongues 12 of the lower unit B are brought up behind the wall 10 to have their hooks 25 entered through the slots 24 of the unit A, whereupon the lower unit B may be suspended from the unit A, to have the lower unit B arms 12 intervene between the wall 10 of the unit A and the wall (not shown) on which the units are to be attached.

To insure a rigid mounting so that the unit B may not be accidentally displaced from the unit A, and also to prevent swinging of one unit in respect to the other, there is provided a tongue 26 punched out of the rear wall 10 to be positioned in spaced parallel relation to the back side of the wall 10. This spacing is made to be such that the arm 12 in each instance of the lower unit B may be engaged under the tongue 26 of the unit A as best indicated in Fig. 4.

Each of the arms 12 is preferably provided with a hole 27 therethrough as a means for engaging the arms 12 over a nail or screw as may be desired, this being particularly of advantage for hanging the upper unit A, and then attaching the unit B therebelow.

While I have herein shown and described my invention in the one particular form, it is obvious that structure changes may be employed without departing from the spirit of the invention, and I therefore do not want to be limited to that precise form beyond the limitations which may be imposed by the following claim.

I claim:

A multiple, vertically aligned bin assembly comprising a pair of identical bins, each bin having a back wall with a pair of spaced, horizontally aligned slots therethrough and spaced intermediate the top and bottom thereof; a pair of arms extending upwardly from the top of said wall; an upper end over and downturned on the front side of each arm to form a hook, said hook in each instance being spaced apart a distance to

allow the hooks of the lower bin arms to engage through the slots from the back side of an upper positioned bin back wall and hang from the lower marginal edges of those slots; said arms being offset rearwardly by their portions immediately above the bin rear wall, from which portions they extend to align the back walls of the respective bins in a common vertical plane; and a pair of tongues on the rear sides of said back walls, below and aligned vertically and horizontally with said slots, the arms of a lower bin engaging under the tongues of an upper bin.

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