

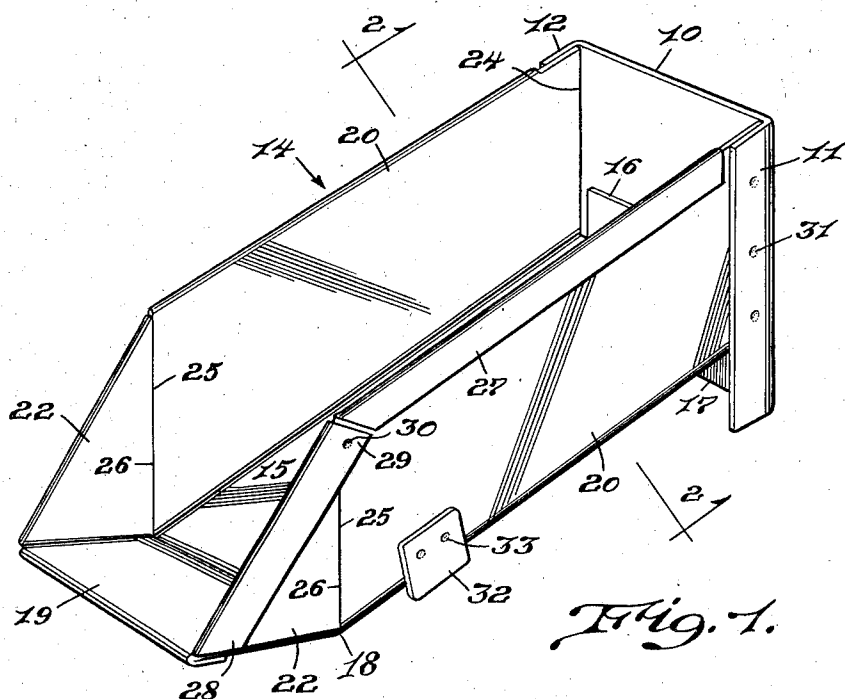
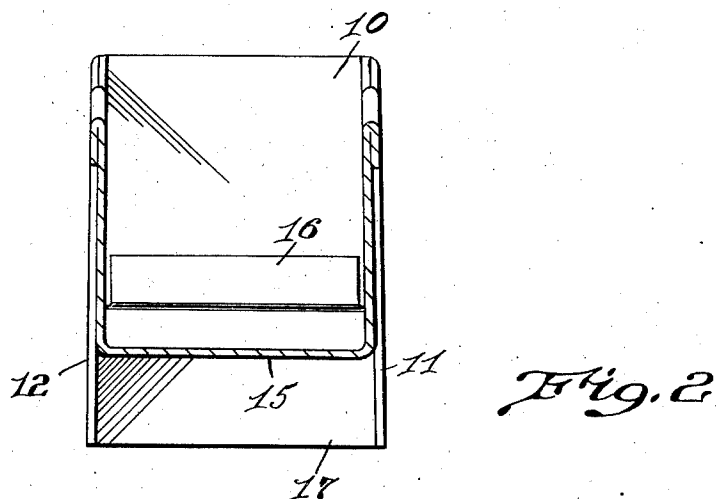
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2,455,706

INCLINED BIN

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3 Claims. (Cl. 220-97)

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This invention relates to a unit designed for assembly with other similar units to provide a plurality of separate containers for small articles which are to be assembled into some unit structure. The unit of this invention is an improvement on the unit shown in my Patent No. 2,320,388, dated June 1, 1943.

In the use of the units shown in my above-mentioned patent, it sometimes occurs that parts may catch in a crevice which is formed between the upwardly inclined bottom wall at the mouth of the container and the side wall of the container which joins therewith. I have also found that more stock is needed in the bin of my prior patented structure than in the bin which is here set forth.

One of the objects of this invention is to provide a container which will have bottom and side walls joined throughout their length by folding so that no crevice is formed at the juncture and thus eliminate the possibility of any article being caught in such crevice.

Another object of the invention is to provide a container which will have less stock than the comparable container which is the subject of my prior patent above mentioned.

Another object of this invention is to provide a container which will be made of fewer pieces and thus one which will require less handling in assembly and less welding.

With these and other objects in view, the invention consists of certain novel features of construction, as will be more fully described and particularly pointed out in the appended claims.

Fig. 1 is a perspective view of the bin or container.

Fig. 2 is a sectional view on substantially line 2-2 of Fig. 1.

In proceeding with this invention, I form the bottom and side walls all of one piece of stock and where the bottom wall is arranged in different angular planes, the side wall is cut away in a V so as to allow the edges of the side wall portions to abut and these are secured by an overlapping outwardly folded edge of one of the portions with the adjacent side wall and there welding it to provide a secure means of holding the parts in their assembled relation. By this arrangement a fewer number of parts and less welding is required and yet a bin which is sufficiently strong is provided for all practical purposes.

With reference to the drawings, I have illustrated the bin as formed primarily of two parts. One part is the back, designated 10, which is

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arranged substantially vertically and which has flanges 11 and 12 folded from the back wall 10 and extending forwardly therefrom.

The other part of the box, comprising the major portion of the body, is designated generally 14 and consists of a bottom wall 15 having the flanges 16 to extend along the back 10 and be secured thereto by welding. This bottom wall is disposed at a point above the bottom edge 17 of the back and is at an obtuse angle therewith and extends forwardly from the back wall for the major portion of its extent at this obtuse angle to a resting point 18 which is designed to rest upon a flat horizontal surface the same as the edge 17 of the back wall. From this point 18, the bottom wall extends upwardly along a portion 19 which is the mouth portion of the container or bin. The arrangement is such that particles placed in the bin will slide along the major bottom wall portion 15 to the mouth and there be retarded from sliding by the upwardly directed portion 19 of the bottom wall at its mouth.

Side walls are folded from both portions of the bottom wall 15 and 19. The side wall portions 20 are folded upwardly from the bottom 15 while the side wall portions 22 are folded upwardly from the portion 19. The rear edge 24 of the side wall 20 extends along in contact with the back wall 10 while the forward edges 25 of these walls 20 are disposed parallel to the edge 24 and thus parallel to the back wall 10 and abut the edges 26 of the side wall portions 22 which extend along and contact the edges 25 throughout their height.

The upper edges of the side walls 20 and 22 are folded outwardly so as to stiffen these free edges, the stiffening portion along the wall 20 being designated 27 and the stiffening portion along the wall 22 being designated 28. This stiffening portion 28 has its upper corner 29 overlap and side wall portions 20 and is spot welded thereto as at 30. Thus, this portion 28 in addition to stiffening the side wall 22 also forms a connection to hold the side wall portions in abutted relation.

The back flanges 11 and 12 are secured to the side walls 20 by spot welds at 31. Guides to assist in the stacking of the container or bins are illustrated at 32, being attached by spot welding 33. The side and back walls taper inwardly slightly so that the upper edges fit within the guides 32 and the back wall portion below the bottom wall 15.

I claim:

1. A bin having a rear wall, a bottom wall at a location spaced upwardly from the lower edge of the rear wall and inclined at an obtuse angle thereto for the major portion of its extent and then directed upwardly at its mouth portion, side walls folded upwardly from the same piece of material as said bottom wall, one side wall portion being folded along said major portion of the bottom wall and another side wall portion being folded along said mouth portion of the bottom wall, said side wall portions abutting and said mouth portion of the side wall having its upper edge folded outwardly with one end overlapping the adjacent side wall portion and means for securing the overlapping parts together to hold said abutting edges in abutting relation.

2. A bin as set forth in claim 1 wherein said

abutting edges extend along a line which is parallel to said rear wall.

3. A bin as set forth in claim 1 wherein said abutting edges extend along a line which is parallel to said rear wall, and wherein the upper free edges of said side wall portions are folded outwardly.

THOMAS SHAW.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
551,899	Kinnard	Dec. 24, 1895
2,320,388	Shaw	June 1, 1943