

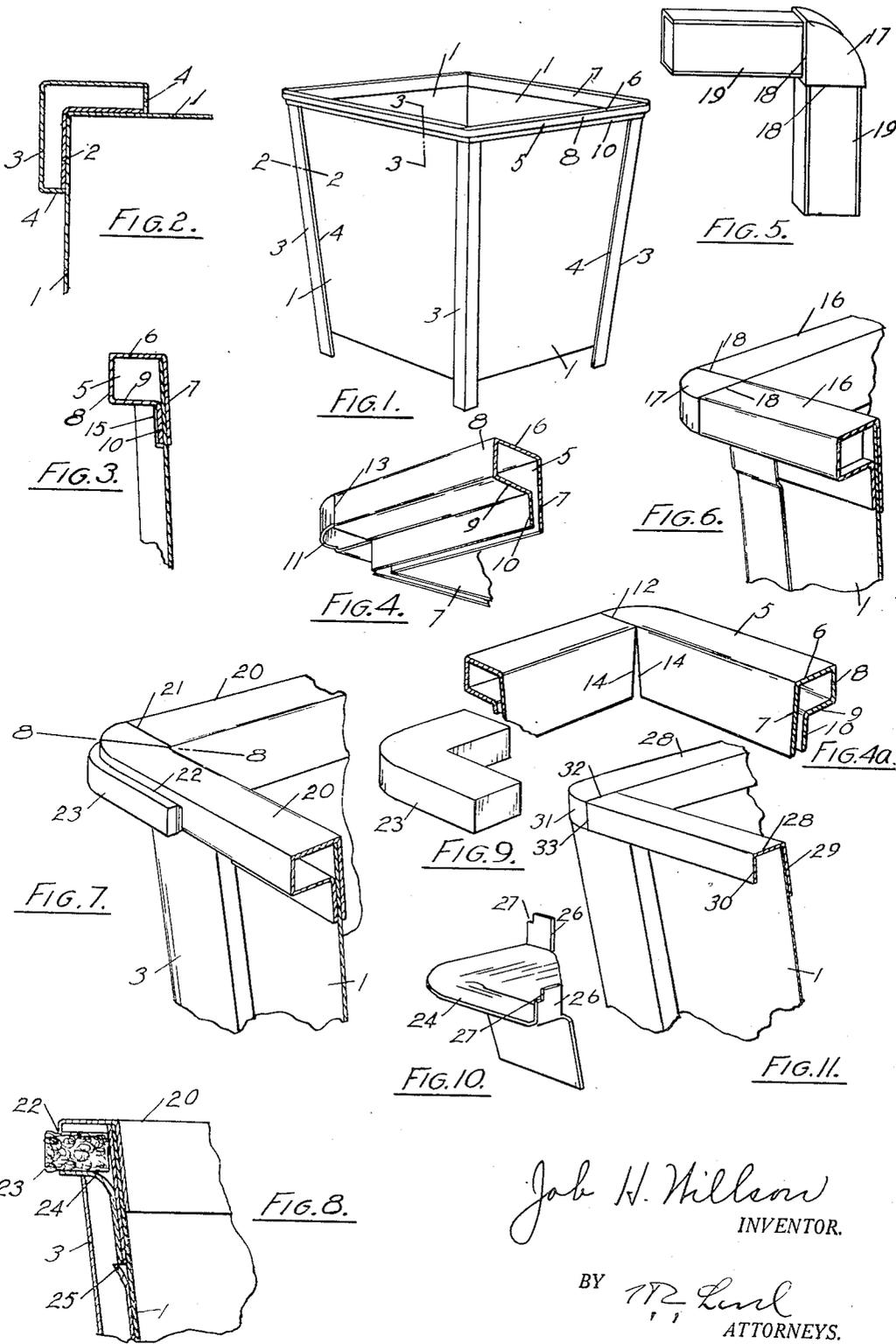
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RECEPTACLE

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# UNITED STATES PATENT OFFICE

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## RECEPTACLE

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8 Claims. (Cl. 220—73)

In the forming of receptacles, particularly such receptacles as waste baskets one of the features that is necessary to the proper strengthening of the structure is a roll, or band around the top edge of the receptacle stiffening and finishing the article. Heretofore the common practice has been to form this roll in the metal, or material forming the top edge of the basket. This necessitated a gauge of material for the roll as light as that of the basket. In many instances the main body of the basket may be formed of much lighter material than the roll. The present invention forms this roll of separate material securing it on the top edge. In this way the roll may be made with a greater freedom of design and also may be made of heavier material than the rest of the basket without materially adding to the expense. Further the roll may be formed in ordinary stamping processes, thus eliminating practically all direct hand-labor and thus, regardless of the weight of the material, very much cheapening the structure. Features and details of the invention will appear from the specification and claims.

A preferred embodiment of the invention is illustrated in the accompanying drawing as follows:—

Fig. 1 shows a perspective view of a receptacle in the form of a waste basket.

Fig. 2 a section on the line 2—2 in Fig. 1.

Fig. 3 a section on the line 3—3 in Fig. 1.

Fig. 4 a perspective view of a fragment of the roll detached showing the under-side of a corner.

Fig. 4a a similar perspective view of a fragment of the roll showing an upper view of a corner.

Fig. 5 a corner piece for a modification.

Fig. 6 a perspective view showing the modification utilizing the corner piece shown in Fig. 5.

Fig. 7 a perspective view showing a modified corner.

Fig. 8 a section on the line 8—8 in Fig. 7.

Fig. 9 a perspective view of a corner pad.

Fig. 10 a perspective view of a pad securing corner plate.

Fig. 11 a modified edge supporting roll.

1 marks the receptacle sides, as shown this is a four-sided receptacle, 2 corner plates joining the sides, 3 panel strips in the form of angles having inturned flanges 4 which are adapted to snap over the corner strips 2. The panel strips 3 extend below the sides forming legs for the basket.

A re-enforcing roll 5 has a top wall 6, an inner depending wall 7 adapted to extend down along the inner surface of the side wall, an outer depending wall 8, a bottom wall 9 extending inwardly from the bottom of the outer wall 8 and a depending lip 10 on the bottom wall 9 adapted to engage the side wall, the lip 10 and depending inner wall 7 straddling the side wall and both being preferably spot welded thereto.

Preferably the roll is made in the form of a complete annulus and one of the depending outer walls 8 is continued around the corner at 11 and one of the side walls at each corner extends past a squared end of the opposite portion and is secured thereto by a butt weld 12, the end of the curved corner wall being butt welded to the outer wall of the companion roll by a butt weld 13. Preferably the ends 14 of the depending inner walls 7 are slightly separated allowing these parts to spring into place on the side wall, the spot welding holding these parts in proper relation. With this structure a roll of sufficient strength to stand the weight of a man is possible and consequently as the basket is dropped, or otherwise abused, this roll is of sufficient strength to hold its shape and by reason of its rigidity and strength permits of the use of very light material for the basket proper. Not only this, but the parts of this roll may be made in ordinary stamping processes and united by butt welding making the roll as a whole very much cheaper than the ordinary rolls fabricated on the sides themselves. Thus it is possible to make a very much more attractive job, one with greater strength, and one permitting of the lighter material of the basket walls and consequently a much cheaper structure. The panel strips are cut away at 15 so as to pass over the lip 10 at the corner.

In the modification shown in Figs. 5 and 6, re-enforcing rolls 16 are made in individual sides and are connected by a corner piece 17 having extensions 19 with a shoulder 18 of the thickness of the walls of the metal in the roll. The extensions 19 project into the openings in the roll and the shoulders bring the corner piece flush with the roll.

In Fig. 7 the side walls 20 and butt weld 21 are similar to those in Fig. 1 except that a portion of the outer walls if removed at 22 forming a notch for receiving a pad 23. This pad is secured by a corner plate 24, the corner plate engaging a shoulder 25 on the corner strip and having ears 26 notched at 27 to extend upwardly within the roll so as to secure the plate in place

and also the pad. The panel strip 3 covers the corner plate.

In some structures, the bottom wall 9 and depending lip 10 may be omitted. Such a structure is shown in Fig. 11 where the roll has a top wall 28, the depending inner wall 29, the depending outer wall 30, the extension of the outer wall having a corner 31 and the abutting walls 32 and 33 completing the corner. This structure is slipped in place on the edge of the receptacle and spot welded in the same manner as the structure shown in Fig. 1.

What I claim as new is:—

1. In a receptacle, the combination of a side wall; and a separate re-enforcing roll along the top edge of the side wall, said roll comprising a top wall, a depending outer wall, a depending bottom wall extending inwardly from the outer wall, a depending lip on the bottom wall, and a depending inner wall, the lip and inner wall straddling and paralleling the side wall.

2. In a receptacle, the combination of a side wall; and a separate re-enforcing roll in the form of an annulus extending along the top edge of the receptacle, said roll comprising a top wall, a depending outer wall, a depending bottom wall extending inwardly from the outer wall, a depending lip on the bottom wall, and a depending inner wall, the lip and inner wall straddling and paralleling the side wall.

3. In a receptacle, the combination of a side wall; and a separate re-enforcing roll in the form of an annulus, the roll being formed with individual side pieces united at the corners and comprising a top wall, a depending outer wall, and a depending inner wall secured to the side wall of the receptacle, one side piece at each corner having the outer wall continued around the corner and connected with the adjacent side piece by an edge to edge connection.

4. In a receptacle, the combination of a side wall; a separate re-enforcing roll extending around the top edge of the side wall, said roll comprising individual side pieces, said side pieces

comprising a top wall, a depending outer wall, and a depending inner wall; and corner pieces filling the corners and having extensions within the walls of the roll.

5. In a receptacle, the combination of a side wall; a separate re-enforcing roll along the top edge comprising individual side pieces, said pieces having a top wall, an outer depending wall, a bottom wall extending inwardly from the outer wall, a depending lip extending from the bottom wall, and a depending inner wall, said lip and inner wall straddling and paralleling the edge of the receptacle; and a corner piece filling the corners and having extensions extending within the rolls of adjacent side pieces.

6. In a receptacle, the combination of a side wall; a separate re-enforcing roll along the top edge of the side wall, said roll comprising a top wall, a depending outer wall, and a depending inner wall secured to the side wall of the receptacle, a portion of the outer wall at the corner being omitted; a pad arranged within the corner; and means securing the pad in place.

7. In a receptacle, the combination of a side wall; a separate re-enforcing roll along the top edge of the side wall, said roll comprising a top wall, a depending outer wall, and a depending inner wall secured to the side wall of the receptacle, a portion of the outer wall at the corner being omitted; a pad arranged within the corner; and means securing the pad in place comprising a corner plate engaging the walls of the roll and the pad.

8. In a receptacle, the combination of a side wall; a separate re-enforcing roll along the top edge of the side wall, said roll comprising a top wall, a depending outer wall, and a depending inner wall secured to the side wall of the receptacle, a portion of the outer wall at the corner being omitted; a pad arranged within the corner; and means securing the pad in place comprising a corner plate engaging the walls of the roll and the receptacle side.

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