

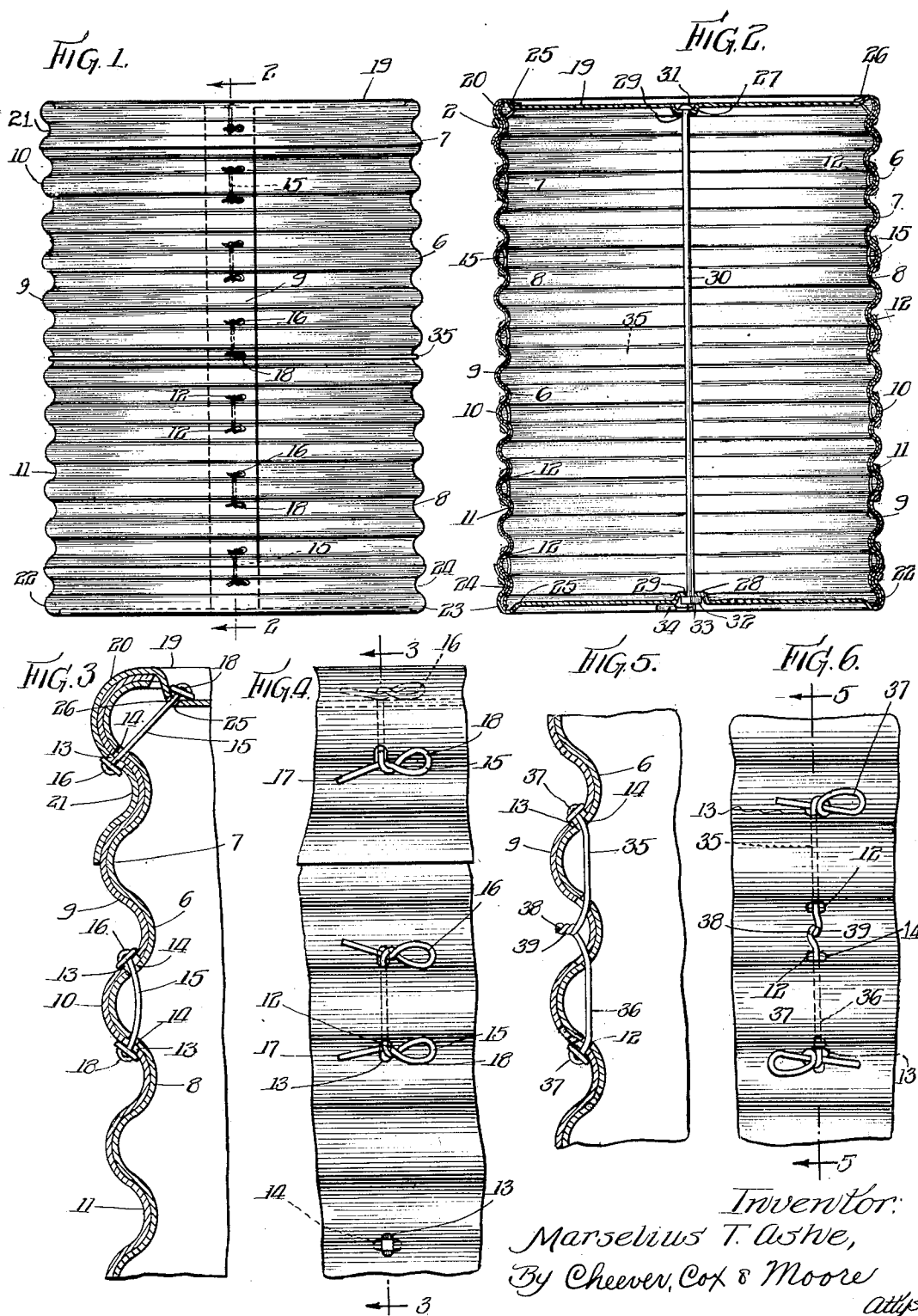
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CONTAINER

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CONTAINER

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2 Claims. (Cl. 220—5)

This invention relates to containers in general and particularly to sheet metal containers of the type disclosed in copending application Serial No. 356,337, filed April 19, 1929.

The primary object of the invention is to provide a collapsible sheet metal container or keg which is provided with new and improved means for fastening together the various sections.

Another object is to provide novel means for connecting the fastening wires for securely holding the parts together.

A further object is to provide cooperating registered slots in the corrugated sections whereby the fastening wires may be easily inserted in position even though the container may be somewhat distorted in handling.

A still further object is to provide new and novel means for reinforcing a collapsible corrugated container.

Still another object is to provide new and novel means for holding or locking the top and bottom members of the keg to reinforce the keg and to prevent the keg from being disassembled without first removing a seal member.

Numerous other objects and advantages will be apparent throughout the progress of the following specification.

The invention comprises in general a pair of substantially semi-cylindrical side members which are made from corrugated sheet metal and which have the corrugations running horizontally thereof. Alined holes are provided in the ridges to receive tie wires for holding the sides together. These alined holes are provided adjacent the edges of the members, one hole being elongated vertically and the other hole which registers therewith being elongated horizontally. This construction permits the tie wires to be readily and easily inserted through the registering holes and permits the holes to register even though the metal becomes distorted through handling. Substantially circular top and bottom members are provided with corrugations and have snap-on engagement with the upper and lower edges of the side members. Registering holes are provided in the side members and the top and bottom to fix the top and bottom to the sides. The top and bottom are each provided with an indentation and the indentations have alined holes for receiving a vertical rod or bolt. The head of the rod or bolt is received in one indentation while the cooperating nut is received in the other indentation. This construction prevents any part of the bolt from extending beyond the normal surface of the top and bottom members.

A hole is provided in the threaded end of the bolt outwardly of the nut to receive a seal whereby the top or bottom cannot be removed unless the seal is broken. As the top and bottom have snap-on engagement with the side members, the container cannot be disassembled as long as the rod is maintained in position, the vertical rod holding the top and bottom in fixed position.

The accompanying drawing illustrates a selected embodiment of the invention and the views therein are as follows:

Fig. 1 is an elevation of the improved container.

Fig. 2 is a vertical sectional view on the line 2—2 of Fig. 1.

Fig. 3 is a detail sectional view on the line 3—3 of Fig. 4.

Fig. 4 is a detail exterior elevation.

Fig. 5 is a detail sectional view on the line 5—5 of Fig. 6 showing a modified wire tying arrangement.

Fig. 6 is an exterior elevation of the matter shown in Fig. 5.

Referring to the drawing, 6 designates a substantially semi-cylindrical side member which is provided with horizontal ridges 7 and horizontal furrows 8. The side 6 is adapted to be connected to a substantially semi-cylindrical side member 9 which is also provided with the horizontal ridges and furrows 10 and 11 respectively. The ridges and furrows in one side member are adapted to nest or interfit with the furrows and ridges of the other side member. When the two side members are fastened together, the member 6 will overlap side member 9 on one side and underlap it on the other side, Fig. 2.

Each member is provided with alined holes or apertures 12 which extend through the ridges 7 and 10 so that when the two side members are in lapped position, Fig. 1, the holes in one member will align and register with the holes in the other side member. One of the registering holes, Fig. 4, is elongated vertically as indicated at 13, while the other registering hole is elongated horizontally as indicated at 14, Fig. 4. These vertically and horizontally elongated holes or slots cooperate to permit the tie wires 15 to be readily inserted through a pair of registering holes or slots 13 and 14 even though the metal should be somewhat distorted during the handling of the keg. The holes 12 which designate generally the elongated holes or slots 13 and 14, are spaced at certain intervals to receive the tie wires 15.

Each tie wire is provided with a looped end 16 and a free end 17. The free end 17 is inserted through the cooperating holes in a ridge as

clearly shown in Figs. 3 and 4. After the free end of the wire passes through the alined holes it is looped by a suitable tool as indicated at 18, Fig. 3, to secure together tightly and rigidly the two side members. When the two sides are connected together by the tie wires 15, they form a substantially cylindrical member.

A substantially circular cover 19 having horizontal ridges 20 and horizontal furrows 21 has snap-on engagement with the upper end of the cylindrical member. A bottom 22 is also provided and this bottom has horizontal ridges 23 and furrows 24. The bottom is also adapted to have snap-on engagement with the bottom edge of the cylindrical member which is made up of the two semi-cylindrical side members when they are fastened together. The top and bottom members are offset at 25 to bring the normal surface of these members below the upper annular edge of the keg, Figs. 2 and 3. Holes 26 are provided in the top and bottom members, Fig. 3, and a tie wire 15 is passed through the registering holes 13 and 14 and the hole 26 for holding these two members in place. The top and bottom are also provided with indentations 27 and 28 respectively, each of which is provided with an alined hole 29 through which a rod or bolt 30 passes. The head 31 of the bolt may be received in the indentation 27 while the nut 32 may be received in the indentation 28. A hole 33 is provided in the threaded end of the bolt outwardly of the nut 32 to receive a seal 34. This vertical rod 30 acts to reinforce the container holding the top and bottom together. The top or bottom therefore cannot be removed unless the seal 34 is broken and the nut 32 removed from the rod or bolt.

In cases where the keg is to be used for heavy material, a reinforcing band 35 may be fastened around the outside of the container and preferably arranged in a furrow. Any number of bands 13 may be fastened around the outside of the keg as desired to thoroughly reinforce the keg at various places. The vertical rod 30 also assists in reinforcing the container by preventing the top and bottom members from bulging outwardly.

In Figs. 5 and 6 there is shown another method of fastening the various members together with a tie wire. This tie wire is preferably made in two parts, 35 and 36. Each part has a looped end 37 and a free end 38 similar to the looped portion 15 and the free end 17 of the previously described tie wires. These wires are passed through a pair of registering holes, one extending downwardly with the loop at the top and the other extending upwardly with the loop on

the bottom. The free ends 38 of these two wires are twisted together at 39, Figs. 5 and 6. In this latter embodiment it is preferable that the registering holes be elongated horizontally and vertically like the holes 13 and 14 as previously described relative to the other figures.

The invention provides an all metal container which can be readily assembled and knocked down. In assembling, the parts can be quickly fastened together to hold the various members rigidly in position. Small pieces or ends of wire may be used as the tie members, and the entire device can probably be assembled quicker and cheaper than by employing the method set forth in the aforementioned application. The outer bands prevent the container from bulging or placing too great a strain on the tie wires. The vertical rod or bolt prevents the container from being taken apart until the nut is first removed from the rod. This vertical rod also assists in reinforcing the container, and by providing the seal the contents of the container cannot be reached until the seal is broken.

Changes may be made in the form, construction, and arrangement of the various parts without departing from the spirit of the invention or sacrificing any of its attendant advantages, and the right is hereby reserved to make any and all such changes as fairly fall within the scope of the following claims.

The invention is hereby claimed as follows:

1. A container comprising a pair of metal substantially semi-cylindrical members having alternate ridges and furrows, holes in the ridges of one member registering with holes in the ridges of the other member, said holes being elongated vertically in one member and elongated horizontally in the other member a wire having a looped end and a free end passing through the registered holes, the free end of said wire being distorted to prevent withdrawal thereof through said holes and holding said members together.

2. A container comprising a pair of interfitting members having their ends overlapping, each of said members having alternate ridges and furrows, the ridges of one member engaging the furrows of another member, one of said members being provided with spaced horizontal slots in the furrows thereof, the other member being provided with spaced vertical slots in the furrows thereof, the slots in each member being arranged near their outer ends so that when the members overlap the slots in both members will be in alinement, and tie wires passing through the alined slots in the members for fastening the two members together.

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