April 23, 1968 A. E. MONGELLUZZO 3,379,335

PREFABRICATED TRASH CONTAINER

Filed March 1, 1966 2 Sheets-Sheet 1

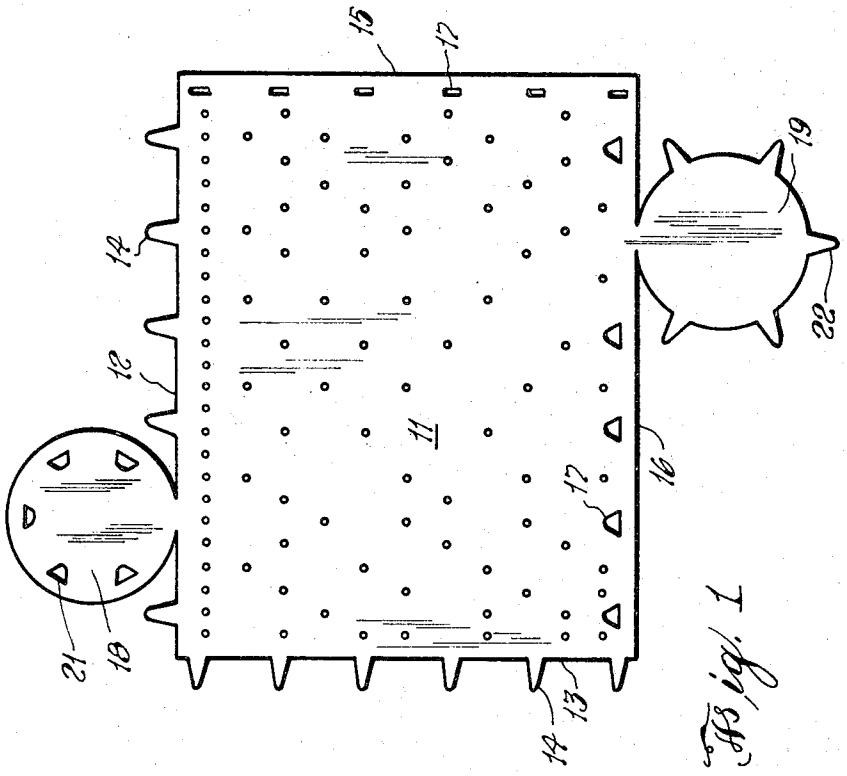


Fig. 1

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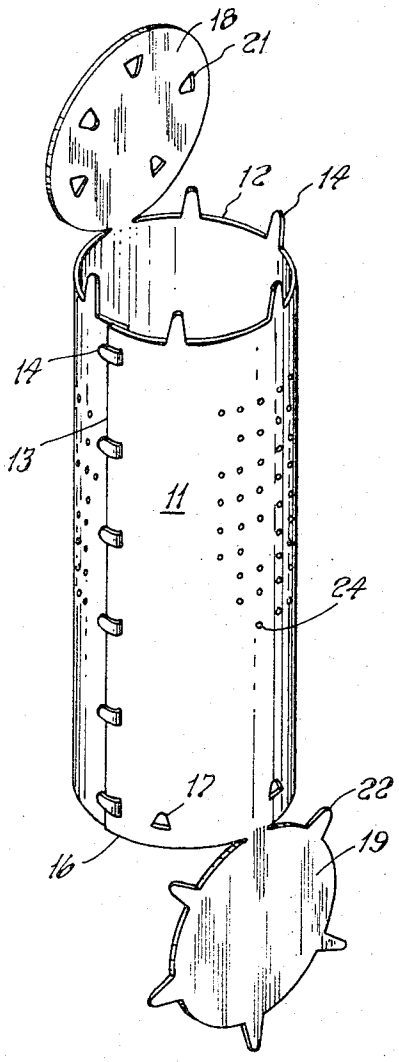


Fig. 2

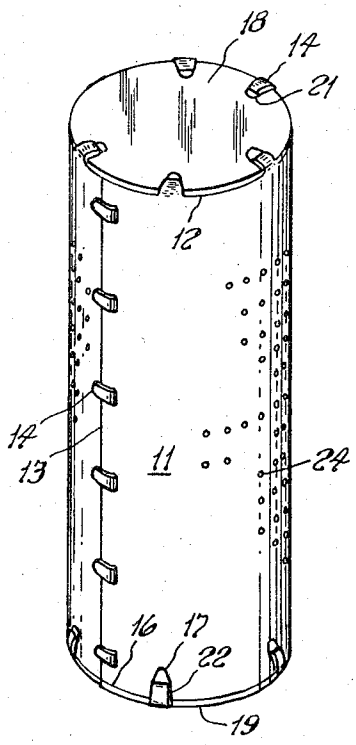


Fig. 3

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PREFABRICATED TRASH CONTAINER

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4 Claims. (Cl. 220—62)

ABSTRACT OF THE DISCLOSURE

The disclosure relates to a one-piece prefabricated trash container, preferably formed from sheet metal or steel fiber board, which may be stowed flat and assembled easily and quickly by an inexperienced person.

This invention relates to a trash container of the prefabricated variety for use on submarines.

Due to the limited amount of space available aboard a submarine, it is required that trash containers be supplied in the unassembled state for conservation of space. The original trash container designed for such use included at least 13 separate parts, to be assembled by shipboard personnel at the time of container use. These containers were difficult to assemble and stowage was complicated by the 13 separate structural parts.

It is an object of this invention to provide a one piece prefabricated trash container which is relatively easy to assemble and further simplifies stowage aboard a submarine by the elimination of 12 separte structural parts.

Another object is to simplify manufacture and assembly of a prefabricated trash contatiner in order to result in lower overall procurement costs.

Other objects and advantages will be appreciated from the detail description and drawings wherein:

FIG. 1 is a view of the prefabricated trash container which is adapted for storage.

FIG. 2 is a view of the initial phase of assembly of the container shown in FIG. 1.

FIG. 3 is a view of the assembled container.

As shown in FIG. 1, the trash container **11** in prefabricated form consists of a one-piece substantially planar sheet of four sided construction. The longitudinal **12** and transverse side **13** of the sheet are provided with a plurality of tabs **14** in spaced relation along the peripheral edges thereof, whereas the remaining longitudinal **15** and transverse side **16** are provided with a plurality of slots **17** in spaced lengthwise relation along the area adjacent the periphery of the sides **15** and **16**.

Each of the longitudinal sides **12** and **16** of the sheet also extend into a separate circular flap construction **18** and **19**, as shown, along their respective peripheral edges. One of the circular flaps **18** is provided with slots **21** in spaced relationship around the area adjacent the circumference of such flap, while circular flap **19** is provided with a plurality of tabs **22** in spaced relationship along the circumference of flap **19**.

The slots **21** of flap **18** are adapted for engagement with the tabs **14** along the longitudinal side **12** of the sheet and the tabs **22** of flap **19** are adapted for engagement with the slots **17** along the remaining longitudinal side **16** of the sheet. Further, the tabs **14** along the transverse side **13** of the sheet are adapted for engagement with the slots **17** along the remaining transverse side **15** of the sheet.

In the initial phase of constructing the container as

shown in FIG. 2, the tabs **14** along the transverse side **13** are inserted in the slots **17** along the remaining transverse side **15** and are bent to secure the structure into the form of a hollow cylinder of open end construction. The bottom circular flap **19** is then secured to the hollow cylinder by inserting the tabs **22** of the circular flap **19** into the slots **17** along the edge **16** of the cylinder and by bending the tabs inwardly. The structure, as described, contains air-vents **24** for the ventilation of the trash which, at this point, may be placed in the container.

In the final phase of construction of the container, as shown in FIG. 3, which occurs after the container is filled with trash, the tabs **14** along the edge **12** of the open end are inserted into the slots **21** along the circular edge of the top flap **18** and are bent inwardly to secure the structure into a completely filled cylinder of closed end construction. For drafting purposes, the thickness of container **11** is greatly exaggerated causing an apparent inconsistency in the closed position of top flap **18**. However since the container is formed from substantially planar sheet material, and since sheet metal on the order of .025 of an inch thick may be used, it will be appreciated that when the container is closed the circular edge portion of top flap **18** will be in substantial coincidence with the top edge of the cylindrical body member. Such coincidence may be realized in the view of FIG. 3 if the thickness of flaps **18** and **19** and of tabs **14** is considered to be represented by a single line.

Obviously, many modifications and variations of the present invention are possible in light of the above teaching. For instance, the prefabricated container may be made from steel fiber board or any other equivalent material. It is therefore to be understood that within the scope of the appended claims, the invention may be practiced otherwise than as described.

I claim:

1. A prefabricated trash container which may be formed from a minimum of sheet material comprising:

a one-piece substantially rectangular planar sheet of construction material having

a plurality of tabs along the periphery of a longitudinal and a transverse edge of said sheet,

a plurality of slots adjacent the periphery of the remaining longitudinal and transverse edges of said sheet,

and each of the longitudinal edges extending into separate offset circular flap constructions along their respective peripheries,

one of said flaps having slots adjacent the circumference of said flap, and the remaining flap having tabs along the circumferential edge of said remaining flap whereby in forming a container one of said flaps is engaged with the adjacent longitudinal edge at a plurality of tabs in advance of a similar engagement of the remaining flap, faci itating forming of the contatiner.

2. A prefabricated trash container of claim **1** wherein said slots of said flap are adapted for engagement with said tabs along the one longitudinal edge of said sheet.

3. The prefabricated trash container of claim **2** wherein said tabs of said remaining flap are adapted for engagement with said slots along the remaining longitudinal edge of said sheet.

4. The prefabricated trash container of claim **3** wherein said tabs along the one transverse edge of said sheet

are adapted for engagement with the slots along the remaining edge of said sheet.

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