

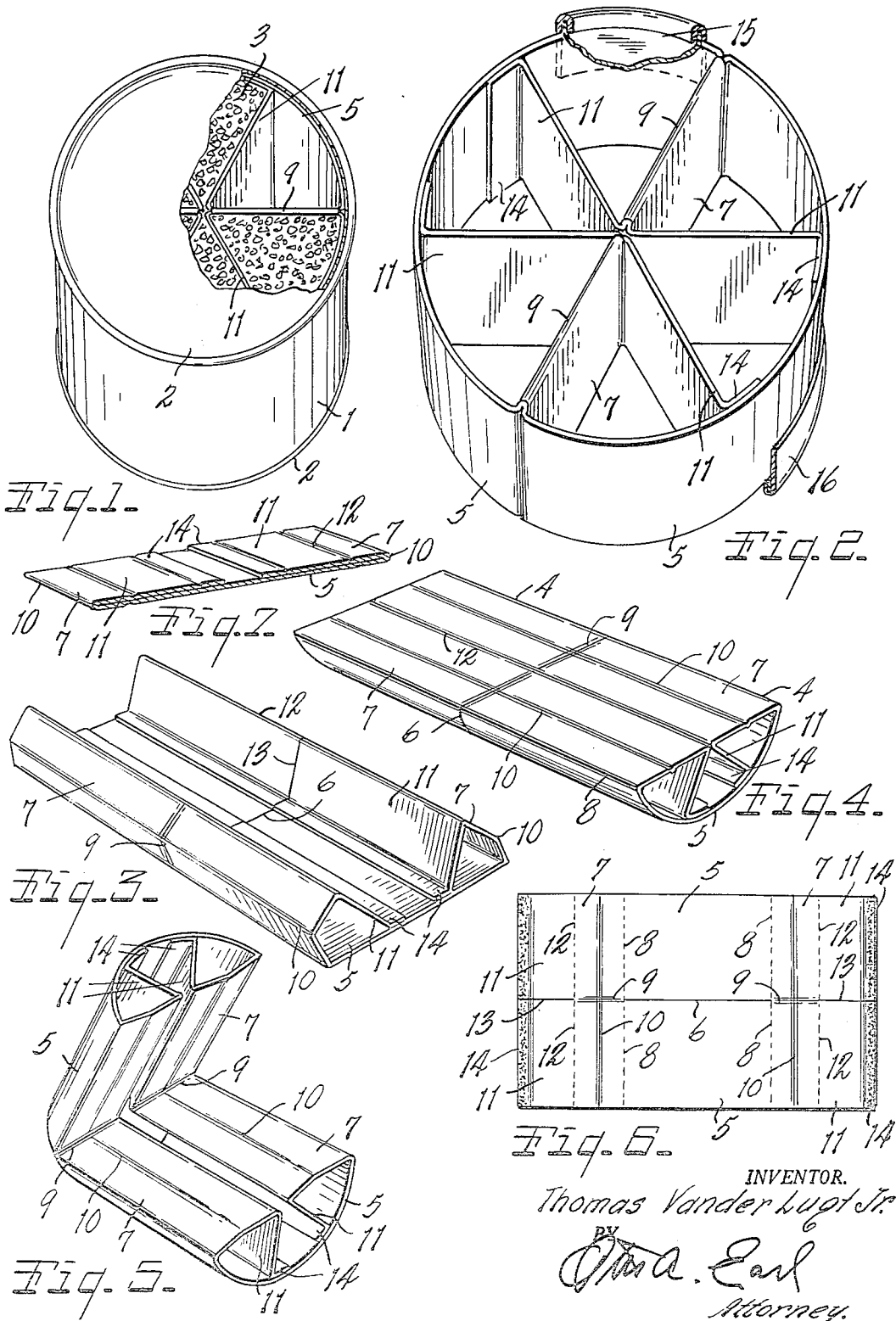
May 15, 1956

T. VANDER LUGT, JR

2,745,587

PARTITIONED CONTAINER

Filed Dec. 29, 1952



INVENTOR.

Thomas Vander Lugt Jr.

BY

Chas. Earl

Attorney.

1

2,745,587

PARTITIONED CONTAINER

Thomas Vander Lugt, Jr., Kalamazoo, Mich., assignor to
Sutherland Paper Company, Kalamazoo, Mich.

Application December 29, 1952, Serial No. 328,441

3 Claims. (Cl. 229—15)

This invention relates to improvements in partitioned containers.

The main objects of this invention are:

First, to provide a partitioned container which may be inserted into a can or receptacle to divide the same into a plurality of compartments or which may be used as a container separate from such can or receptacle.

Second, to provide a partitioned cylindrical container formed of an integral blank and which may be compactly collapsed and quickly erected from the collapsed position.

Third, to provide a partitioned or multiple compartment container having a plurality of compartments of substantially uniform capacity.

Fourth, to provide a structure having these advantages which may be very economically produced.

Objects relating to details and economies of the invention will appear from the description to follow. The invention is pointed out in the claims.

A preferred embodiment of the invention is illustrated in the accompanying drawings, in which:

Fig. 1 is a perspective view of a structure including a can or receptacle embodying my invention with the top wall of the can partially broken away, one of the compartments being empty and the other compartments having granular material conventionally illustrated therein.

Fig. 2 is a perspective view of the partitioned container of my invention, fragments only of end walls being illustrated.

Fig. 3 is a perspective view illustrating one step in the erecting of the container from the collapsed position shown in Fig. 7.

Fig. 4 is a perspective view illustrating an erecting step following that shown in Fig. 3.

Fig. 5 is a perspective view illustrating an erecting step following that of Fig. 4.

Fig. 6 is a plan view of the blank.

Fig. 7 is a fragmentary perspective view showing the structure when completely collapsed.

In the accompanying drawing I have illustrated a practical embodiment of my invention. The can or receptacle 1 is formed of tin and is provided with ends 2. 3 represents granular material such as ground coffee.

The container of my invention is formed of an integral blank of cut and scored cardboard or container board stock and comprises complementary sections designated generally by the numerals 4—4. Each section 4 includes a bendable side wall 5, the side walls being disposed end to end in the blank but severed by the slit 6.

Pairs of first partition members 7 are hingedly connected to the end edges of the side walls at 8. Corresponding partition members 7 of the pairs are disposed end to end in the blank and are hingedly connected at 9. These partition members 7 have aligned folding scores 10 permitting collapsing of the container.

Second pairs of partition members 11 are hingedly connected to the swinging edges of the partition members 7 at 12. Corresponding partition members 11 are aligned

2

in the blank but severed by slits 13. The partition members 11 are provided with hinged sealing flaps 14 on their outer or swinging edges. These sealing flaps of the pairs of second partition members are secured in spaced relation to the inner sides of the walls 5 as is clearly shown to diverge outwardly when the container is erected.

The blank is folded on the folding scores 10 of the first partition members and the sealing flaps secured to the inner sides of the segmental walls, as is shown in Fig. 7, in which position the structure is completely collapsed.

To erect the container the partitions are swung to partially erected position, as shown in Fig. 3, by pressing on the opposite edges of the collapsed structure as shown in Fig. 7. Continued pressure brings the inner edges of the partition members 7 into abutting relation as shown in Fig. 4. In this position the sections are folded upon the hinge 9, as indicated in Fig. 5, to the completely erected position in which the partition members 11 are positioned in diverging relation thus providing a plurality of compartments of triangular section. The parts erected as shown in Fig. 2, the partitioned container may be inserted in a can or receptacle as shown in Fig. 1 and the contents placed therein.

In packaged coffee, for example, a puncturing tool may be used to puncture the cover above a compartment or cell and the contents of the compartment poured out through the opening. That, of course, would apply to other granular materials. In a receptacle which is not emptied one cell at a time a removable cover may be provided for the can or designed flanged caps or end members may be applied directly to the erected container. I have illustrated a fragment of such container caps or closures at 15 and 16 in Fig. 2. Such end members may be used for various products, for example, candies or the like and one of them may be adhesively secured, the other constituting a removable cover. This provides a very economical container with a plurality of compartments which may be used when desired without the outer can or receptacle 1.

I have illustrated and described my invention in a very practical embodiment thereof. I have not attempted to illustrate or describe various other embodiments or adaptations which I contemplate as it is believed this disclosure will enable those skilled in the art to embody or adapt my invention as may be desired.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A partition unit comprising two complementary segmental sections formed of an integral blank and disposed side by side, each section when erected comprising a curved side wall of approximately 180° in extent, a pair of first partition members and a pair of second partition members, the outer edges of the first partition members being hingedly connected to the opposed side edges of the side wall and having their inner edges hingedly connected to the inner edges of the second partition members, said first partition members having folding scores disposed parallel to their said hinging connections to the side wall, said second partition members having sealing flaps on their outer edges secured in angularly spaced relation relative to each other to the inner side of the side wall, said second partition members being disposed in outwardly diverging relation to each other when the section is erected, the inner edges of the first partition members being in abutting relation when in erected position, end edges of the first partition members of one section having hinged connection to the corresponding end edges of first partition members of the other section, said sections being foldable on said hinge connections for said first partition members into side by side relation with the curved side walls complementing each other to provide a cylindrical

3

outer wall and with the several partition members disposed radially relative to the outer wall of the unit.

2. A partition unit comprising two segmental sections formed of an integral blank and disposed side by side, each section when erected having a curved side wall 180 degrees in extent, a pair of first partition members and a pair of second partition members, the outer edges of the first partition members being hingedly connected to opposed side edges of the side wall and having their inner edges hingedly connected to inner edges of the second partition members, said second partition members having their outer edges secured in angularly spaced relation to each other to the inner side of the side wall, said second partition members being disposed in outwardly diverging relation when the section is erected, the end edges of the first partition members of one section having hinged connections to end edges of the first partition members of the other section, said sections being foldable on said hinge connections for said first partition members into side by side relation with the side walls in complementary relation to each other providing a cylindrical outer wall and with the several partition members disposed radially relative to the outer wall of the unit.

3. A collapsible partition unit comprising two complementary segmental sections, each section comprising a curved side wall 180 degrees in extent, a pair of first partition members and a pair of second partition mem-

4

bers, the outer edges of the first partition members being hingedly connected to opposed side edges of the side wall and having inner edges hingedly connected to inner edges of the second partition members, the first partition members having folded scores disposed parallel to their hinging connections to the side wall, said second partition members having their outer edges secured in angularly spaced relation relative to each other to the inner side of the side wall and being disposed in outwardly diverging relation to each other when the section is erected, end edges of the first partition members of one section having hinged connection to the corresponding end edges of the other section, said sections being foldable on their said hinge connection to each other into side by side relation with the side walls in complementary relation to each other providing a cylindrical outer wall and with the several partition members disposed radially relative to the outer wall of the unit.

References Cited in the file of this patent

UNITED STATES PATENTS

366,886	Schmidt	July 19, 1887
1,108,005	Rey	Aug. 18, 1914
1,240,564	Harrington	Sept. 18, 1917
1,636,508	Goodyear	July 19, 1927
2,154,085	Bergstein	Apr. 11, 1939