

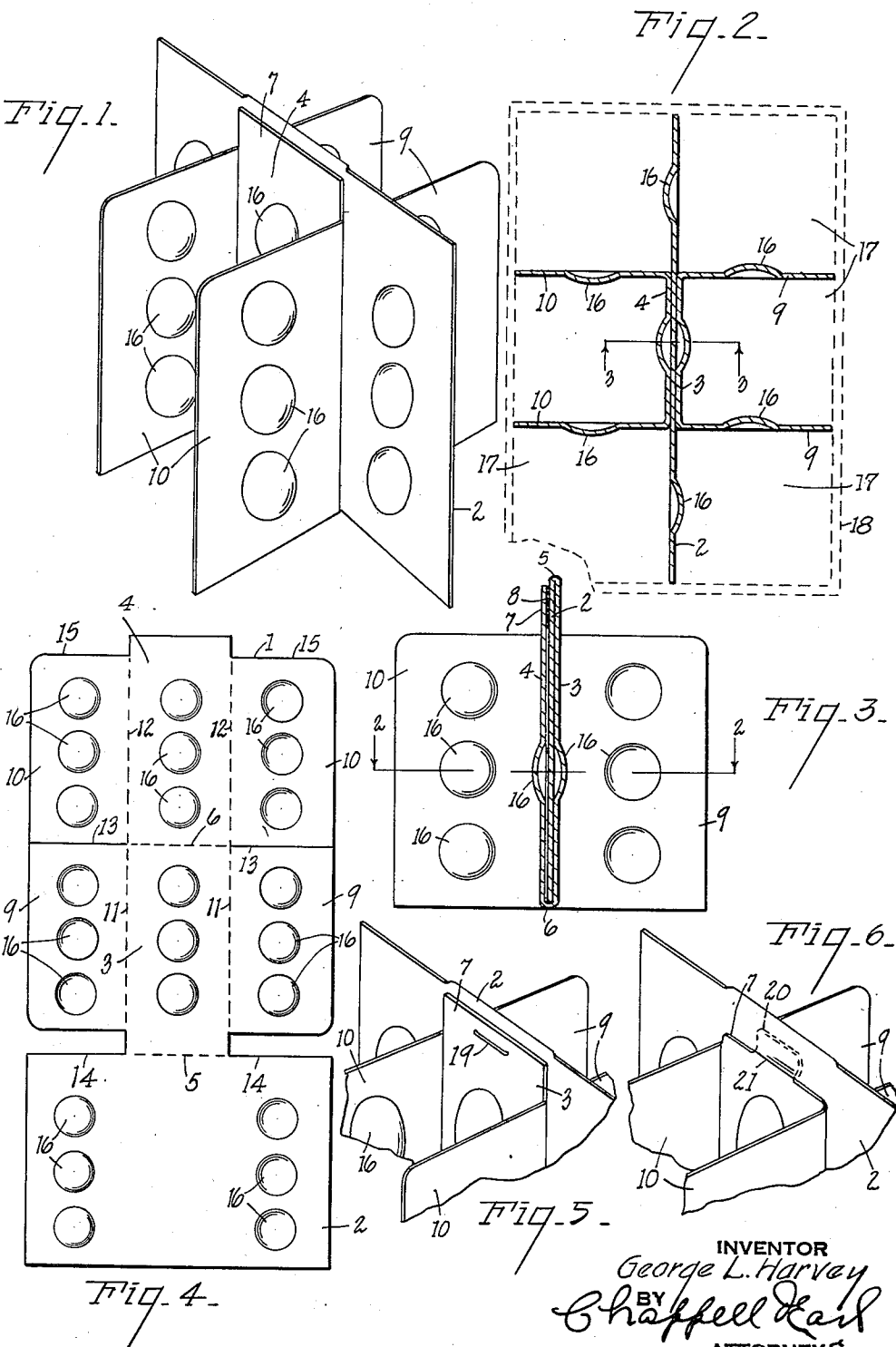
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PARTITION OR SEPARATOR UNIT

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PARTITION OR SEPARATOR UNIT

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The main objects of this invention are:

First, to provide a container partition or separator or cell unit of improved construction.

Second, to provide a partition or separator unit comprising an integral blank which is cut, scored and folded to provide longitudinal and transverse partitions forming a plurality of cells in the container or box.

Third, to provide a separator unit of this character, which is simple and inexpensive to manufacture, easily set up and very effective in operation.

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

A structure which is a preferred embodiment of my invention is illustrated in the accompanying drawing, in which:

Fig. 1 is a perspective view of a partition or separator unit embodying the features of my invention.

Fig. 2 is a horizontal section on line 2—2 of Fig. 3, the separator being shown in position within a container.

Fig. 3 is a vertical transverse section on line 3—3 of Fig. 2.

Fig. 4 is a plan view of the blank.

Fig. 5 is a fragmentary perspective view of a modification.

Fig. 6 is a fragmentary perspective view of another modification.

In the embodiment of my invention illustrated by Figs. 1 to 4, inclusive, of the drawing, numeral 1 indicates an integral blank formed of box board or other suitable material. The blank comprises an end section 2, an intermediate section 3, and an end section 4. The end section 2 constitutes the central longitudinal partition of the separator unit when the blank is folded or set up as illustrated by Fig. 1.

The intermediate section 3 is connected to the end section 2 by the scored folding line 5 so that the section 3 may be folded into overlapping relation with one side of the section 2 as illustrated by Figs. 2 and 3. The end section 4 is connected to the intermediate section 3 by the scored folding line 6 so that the section 4 may be folded into overlapping relation with the other side of the section 2 as best illustrated by Fig. 3. The tongue or flap 7 on the upper edge of the section 4 is connected to the section 2 by means of the glue or cement indicated at 8. This provides a substantially rigid central structure of

three thicknesses of box board with the central partition between the upright parts 3 and 4.

The intermediate section 3 and the end section 4 have flaps 9, 9 and 10, 10, respectively, connected to their opposed side edges by scored folding lines 11, 11 and 12, 12, the blank being cut along the lines 13, 13 to separate the flaps 9 and 10. The flaps 9 and 10 constitute transverse partitions. The upper ends of the transverse partitions 9 and 10 are disposed in a horizontal plane spaced below the upper edge of the longitudinal partition 2 as best illustrated by Figs. 1 and 3. This is accomplished by notching the blank at 14, 14 between the end section 2 and the intermediate section 3 and at 15, 15 at the upper end of the end blank 4.

The partitions and upright members are preferably embossed as shown to provide cushions 16 for the bottles or other merchandise packed in the cells 17 formed by the partition unit within the case or box 18.

The blanks are cut, scored, and embossed as illustrated by Fig. 4. The blanks may be readily set up to form the partition unit by merely folding the end section 2 and intermediate section 3 in overlapping relation on the scored line 5, folding the end section 4 over the other side of the folded section 2, and pasting the tongue 7 to the end section 2. The unit may be shipped in knocked down or collapsed condition and quickly set up by bending the flaps 9 and 10 outwardly at right angles to the section 2 along the scored lines 11 and 12. The units are inexpensive to manufacture and may be readily set up by the consumer, the consumer in this case being the packer of the bottled goods such as beer.

Referring to Fig. 5, there is illustrated a modification wherein the tongue 7 is connected to the partition 2 by means of the wire staple 19. Otherwise, the partition unit is similar to that described above in connection with Figs. 1 to 4, inclusive.

Referring to Fig. 6, there is illustrated another modification of the partition unit wherein the tongue 7 is provided with a locking flap 20 for coaction with the slit 21 provided therefor in the longitudinal partition 2. Otherwise, the partition unit is similar to that described above in connection with Figs. 1 to 4, inclusive.

I have illustrated and described my improvements in embodiments which I have found very practical. I have not attempted to illustrate or describe other embodiments or adaptations, as it is believed this disclosure will enable those

skilled in the art to embody or adapt my improvements as may be desired.

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

1. A separator unit for containers, comprising in combination an integral blank cut, scored and folded to provide a central longitudinal partition, an upright member connected at its upper edge to said longitudinal partition and overlapping one side of the same, an upright member connected at its lower edge to said first named upright and overlapping the opposite side of the longitudinal partition, transverse partitions connected to the opposite side edges of said upright members and having their upper ends in a horizontal plane spaced below the upper edge of said longitudinal partition, and means securing the free upper end of said second named upright to said longitudinal partition, said last named means being located above the horizontal plane of the upper ends of said transverse partitions.

2. A separator unit for containers, comprising in combination a central longitudinal partition, an upright member connected to said longitudinal partition and overlapping one side of the

same, an upright member integrally connected at its lower edge to said first named upright and overlapping the opposite side of the longitudinal partition, transverse partitions connected to the opposite side edges of said upright members and having their upper ends in a horizontal plane spaced below the upper edge of said longitudinal partition, and means securing the upper end of said second named upright to said longitudinal partition, said last named means being located above the horizontal plane of the upper ends of said transverse partitions.

3. A separator unit comprising a central longitudinal partition, and upright members disposed on opposite sides of said central longitudinal partition in overlapping relation to the same, transverse partitions connected to the opposite side edges of said upright members and having their upper edges spaced below the upper edge of said central longitudinal partition, and means securing said central longitudinal partition and upright members in unitary assembled relation, said last named means being located above the horizontal plane of the upper ends of said transverse partitions.

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