

W. P. HAMMOND AND L. W. LUELLEN.
DISPENSING DEVICE.

APPLICATION FILED APR. 17, 1915.

1,337,838.

Patented Apr. 20, 1920.

2 SHEETS—SHEET 1.

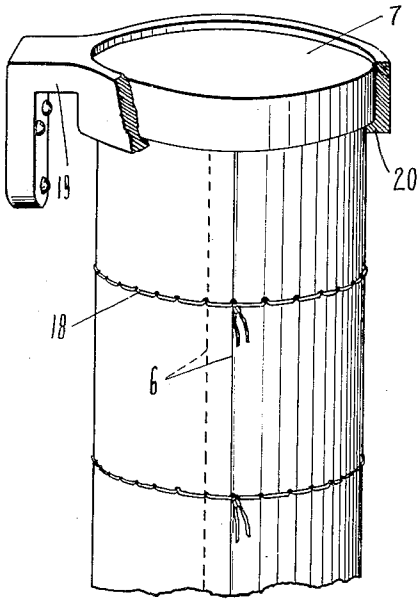
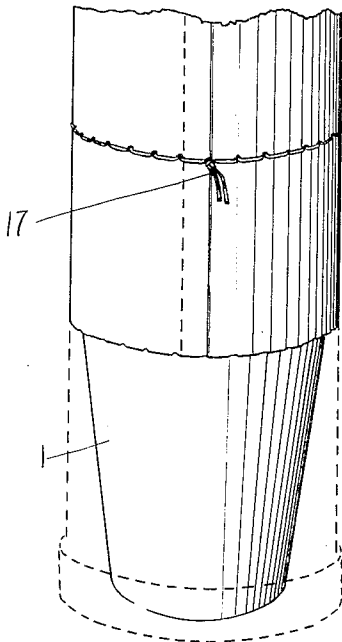


FIG. 6

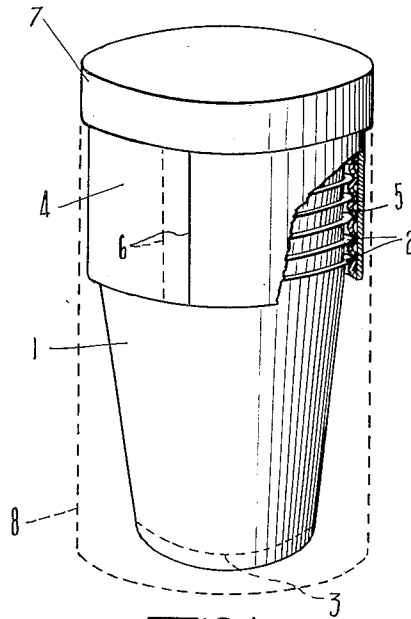


FIG. 1

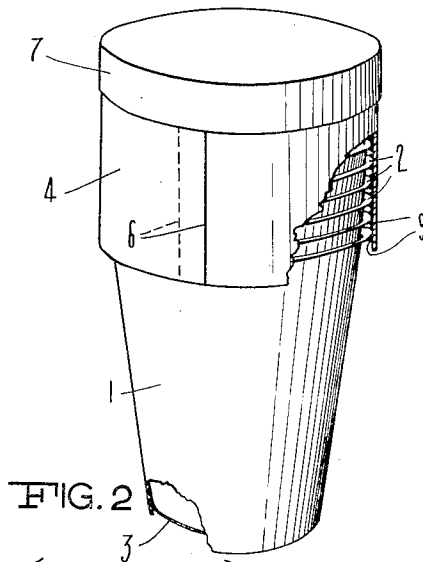


FIG. 2

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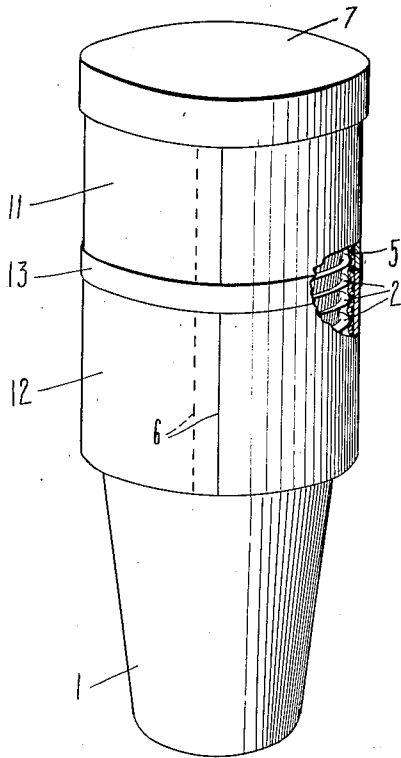


FIG. 4

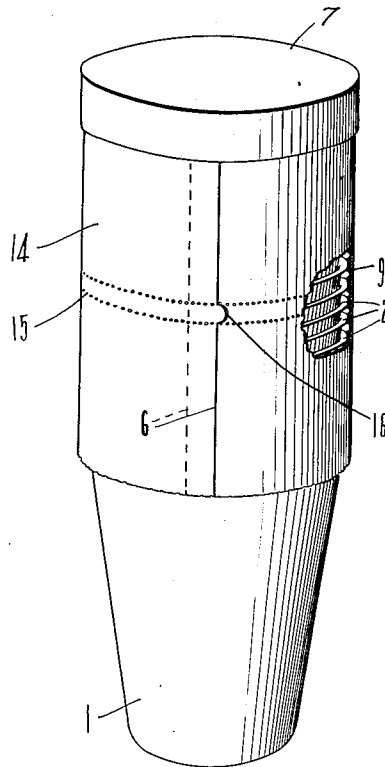


FIG. 5

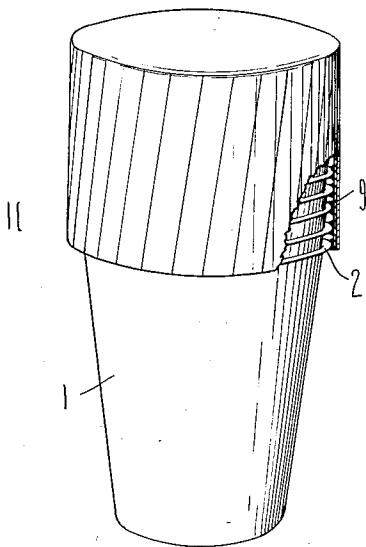


FIG. 3

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UNITED STATES PATENT OFFICE.

WILLIAM P. HAMMOND, OF PASSAIC, AND LAWRENCE W. LUELLEN, OF MOUNTAIN LAKES, NEW JERSEY, ASSIGNORS, BY MESNE ASSIGNMENTS, TO INDIVIDUAL DRINKING CUP COMPANY, INC., A CORPORATION OF NEW YORK.

DISPENSING DEVICE.

1,337,838.

Specification of Letters Patent.

Patented Apr. 20, 1920.

Application filed April 17, 1915. Serial No. 21,962.

To all whom it may concern:

Be it known that we, WILLIAM P. HAMMOND and LAWRENCE W. LUELLEN, citizens of the United States, residing at Passaic, in the county of Passaic, State of New Jersey, and at Mountain Lakes, in the county of Morris and State of New Jersey, respectively, have invented certain new and useful Improvements in Dispensing Devices, of which the following, taken in connection with the accompanying sheets of drawings, is a full, clear, and concise description thereof.

Our present invention relates more particularly to dispensing devices for paper drinking cups and comprehends a device which is simple in construction and inexpensive in cost of manufacture, and which will preferably constitute and form an original package or container in which the cups are stored and handled as an article of merchandise.

Our invention furthermore comprehends a dispensing device of such construction that the contained cups or articles will be individually supported and retained therewithin, permitting said cups or articles however to be withdrawn individually and successively therefrom.

Referring to the accompanying drawings in which we have illustrated several specific forms wherein our invention may find embodiment,—

Figure 1 is a view in perspective of an original package containing a stack of nested flanged paper drinking cups, partly broken away and showing the individual flanges of the cups individually supported by inwardly-directed ledges which are a part of the container.

Fig. 2 is a like view of a modified form of structure in which the individual cup flanges are supported by paraffin, or analogous substance, which preferably is applied after the cups are inserted in the container.

Fig. 3 is a similar view showing the cups supported in the same manner as last-described, but in which the container is formed of a single piece of paper, the sides being plaited in order to acquire the desired cylindrical form shown.

Fig. 4 is a perspective view of a modification of the structure shown in Fig. 1, showing

the manner in which a greater number of cups may be packed and handled as a unit and in which the container is sectional in form, the adjacent sections being connected together by a removable binder, or connecting strip.

Fig. 5 is a like view of a still further modification incorporating the paraffining feature of supporting and connecting the cups to the container, the latter being of a length sufficient to store any desired number of cups, but perforated at spaced intervals to provide for the ready severance of same in order to make convenient the abstraction of the cups therefrom as the supply is being depleted.

Fig. 6 is a perspective view of a still further modified form of container showing a different method of severing the container tube in sections, as use requires, and showing means for supporting the same in upright position.

While we have illustrated the broad principle of our invention as applied to a nested stack of flanged paper drinking cups 1, we would have it understood that we do not limit ourselves thereto, as said principle is broadly applicable to other uses wherein it might be found desirable to store or pack articles of merchandise in original package form, and wherein the container may serve as a dispensing medium for all the contained articles. The cups 1, illustrated, are frusto-conical in form and are provided at their upper, or open ends, with outwardly-directed flanges 2. These cups may be made of two pieces of paper, the bottoms 3 thereof being inserted and preferably connected with the side walls by paraffin. The bottoms 3 being positioned a slight distance from the lower edges of the cups, cause the flanges of the cups when in nested, or stacked, relation to be substantially uniformly spaced from each other as shown. The spacing of the flanges in this manner makes possible the individual supporting of each in such a way that the cups may be withdrawn one at a time, without molesting the remaining cups of the stack. Various means may be used for individually supporting the cups, and we have chosen, by way of example, to illustrate several such means.

In Fig. 1 our invention is illustrated as

taking the form of an original package in which a limited number of cups (preferably ten in number) are stacked. It is preferable to limit the number of cups in a package of this kind in order that the last, or remaining, cup of the stack within the container may be readily grasped and withdrawn from same,—sufficient of its lower portion being exposed beneath the lower edge of the container to present a substantial grasping surface for the hand of the user. The container is preferably made of a paper shell 4 having a lining of corrugated paper 5, the corrugations being, preferably spaced to accord with the spacing of the flanges of the nested stack of cups and being adapted to form, when brought into coöperative association with the cups, flange-supporting ledges, as clearly shown in the drawings. In forming the package the paper of the container is wrapped around the stack of nested cups with the ends 6 overlapping each other and being cemented together by some adhesive material. Thereafter a paper cap 7 is slipped upon and similarly joined to the body of the container. In this manner the container for a limited number of flanged paper drinking cups is formed, which is an original package in itself, and may be handled as a unit. For shipping purposes, it may be desirable to use a cylindrical covering portion 8, which will surround the exposed terminal cup, thus making more convenient the handling of the package as a whole. In dispensing cups from the container it is manifest that the lower or terminal, cup may be grasped and by exerting a pull, may be separated from the balance of the stack, the flange 2 thereof yielding or deflecting during the passage of the cup from the container. Each succeeding cup is correspondingly and in like manner withdrawn from the container and the container is discarded when the last cup has been withdrawn for use.

In the construction shown in Fig. 2 we preferably form the container prior to loading it with cups. The container here illustrated is made of two parts, the body portion 4 and top 7. The body portion 4 is preferably of very thin paper stock. After the container is slipped over the desired number of cups it is subjected to a coating of paraffin. The paraffin penetrates the paper and sufficient of it adheres to the flanges 2 to form a support for the cups, as shown at 9 in Fig. 2. The cups are removed from the container in the same manner as heretofore described in connection with Fig. 1. As force is exerted upon each cup to remove it, the paraffin connecting the flange of the cup with the inner periphery of the container gives way, in a manner thought to be well understood. Instead of making the

container of two separate parts, we may, if found desirable, form it of a single piece of paper, as illustrated in Fig. 3. Here the sides of the paper shell are plaited, or the parts overlap each other as at 10 in order that the excess stock of the material from which it is made may be taken care of. In this form the container is subjected to a coating of paraffin, which penetrates the same adhering the plaits together as well as connecting the flanges of the cups to the interior thereof.

When it is desired to store in original package form a greater number of cups, we make the paper container in sections, as shown at 11 and 12 of Fig. 4, each section being bound together by a band 13 which may be readily removed to permit the separation of the sections as the use of the cups requires, as is thought to be manifest from the drawings. When so many cups have been drawn from the container as to make it difficult to obtain a hold upon the terminal cup by reason of its position within the container, the band 13 is torn off, permitting the removal of the lower section thus exposing a substantial portion of the terminal cup to the grasp of the hand.

When practising the method described in connection with Figs. 2 and 3, wherein the cups are temporarily joined to the container by paraffin, we form the body of the container of one piece of thin paper stock 14, perforating the same at spaced intervals with perforations 15 and providing a lip 16 which may be readily grasped by the fingers of the user who, upon applying force, will tear and remove the perforated section from the container so that the lower section thereof may be removed to make accessible the otherwise unexposed cups, in a manner that is thought to be clearly understood. In lieu of perforating the paper in the manner last-described, we may provide pull strings or threads which are chain-stitched circumferentially and at spaced intervals, as is shown at 18 in Fig. 6. It is manifest that, by exerting a pull upon the strings 17, the paper will be severed so that the lowermost section may be conveniently removed. In order that a package of the character described may be conveniently used, we may use a bracket, such as is shown at 19 in Fig. 6, this bracket being provided with an inwardly-directed annular supporting shelf or ledge 20 which will engage the end of the cap 7 and support the container with its nested stack of cups in upright or vertical position.

It will be observed from the foregoing that the cups are individually supported within the container and the flanges and interior of said cups are maintained in a strictly sanitary condition.

Having thus described our invention, what

we claim as new herein and desire to secure by Letters Patent, is:—

1. A dispensing device of the character described comprising a sectional container for paper drinking cups, said sections being formed to permit the projection of the cups outwardly therebeyond as the successive end sections are removed, and to support the cups in place.

2. A dispensing device of the character described comprising a container for nested paper drinking cups, said container being operatively associated with the cups to retain them in place while permitting removal of portions of the container in keeping with the decreasing cup content of the container.

3. A dispensing device of the character described comprising a wrapped series of nested paper drinking cups, the wrapper and cups being operatively associated to retain the cups in place until forcibly removed, and the wrapper being of a nature to be removed from adjacent the endmost cups to permit them to be grasped.

4. A dispensing device of the character described comprising a wrapped series of nested paper drinking cups, the wrapper being formed to permit the drinking cups to project beyond the end thereof while in retained position and to be displaced at its end portion as cups are removed to shorten the wrapper in keeping with the remaining cup content of the same.

5. A dispensing device of the character described comprising a container formed to be decreased in length to accord with the discharging of its content, of a series of nested paper drinking cups constituting such content adapted to be retained in said container with the endmost drinking cups exposed through the receding open end of the container.

6. A dispenser for a nested stack of flanged drinking cups, comprising a cylindrical paper receptacle provided with a closed top and an open bottom, and individual means operatively associated with each of the cup flanges and with the receptacle for individually and simultaneously supporting each of the cups therein, said cups being adapted to be individually withdrawn through the open bottom of the receptacle.

7. As a new article of manufacture, a package comprising a series of nested ar-

ticles individually supported within a paper covering, said covering being formed so that sections thereof may be readily severed and removed therefrom to facilitate the withdrawal of the articles therefrom.

8. A dispensing device for nested paper drinking cups comprising a paper container, means for individually supporting the cups therein and means for readily severing and separating sections of the container to facilitate the removal of the cups therefrom.

9. In a dispensing device for nested paper drinking cups comprising a paper container, individual means for supporting each cup therein, said container being perforated at spaced intervals along its length to facilitate the removal of sections therefrom.

10. A dispensing device for paper drinking cups comprising a paper container, individual means for supporting each cup therein, the container being provided with a severing cord chain stitched around the periphery thereof at spaced intervals.

11. A dispensing device for a nested stack of flanged paper drinking cups, comprising a sectional magazine, means for singly detaching the sections of said magazine, and means for individually supporting said cups within said magazine.

12. A dispensing device of the character described comprising a paper container adapted to receive a series of nested flanged paper drinking cups, the container constituting a wrapper for said cups, and the body of the container and cup flanges being mutually engaged to retain the cups from escape through the end of the container when open.

13. A dispensing device of the character described comprising a container for drinking cups, said container having a discharge passage disposed endwise of the cups and at the end portion of which the outer cups are exposed for withdrawal, and means on the container devoted to each cup for individually supporting the same, the container being formed to permit access to the adjacent initially confined cups after the outer cups have been withdrawn from exposed position at the end of said discharge passage.

In witness whereof we have hereunto set our hands.

WILLIAM P. HAMMOND.
LAWRENCE W. LUELLEN.