P. H. CARR.

COLLAPSIBLE DRINKING CUP.

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1,255,133.

Patented Feb. 5, 1918.

Fig. 1.

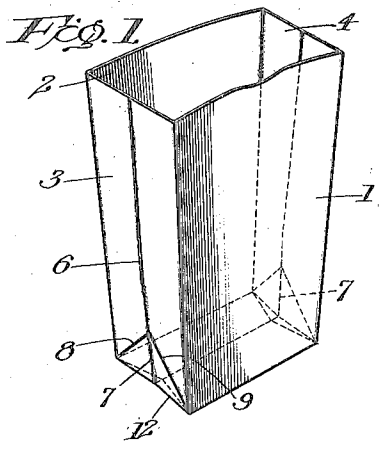


Fig. 4.

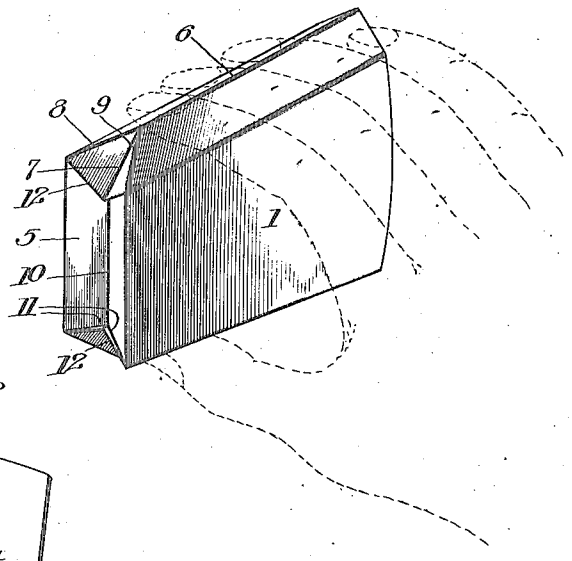
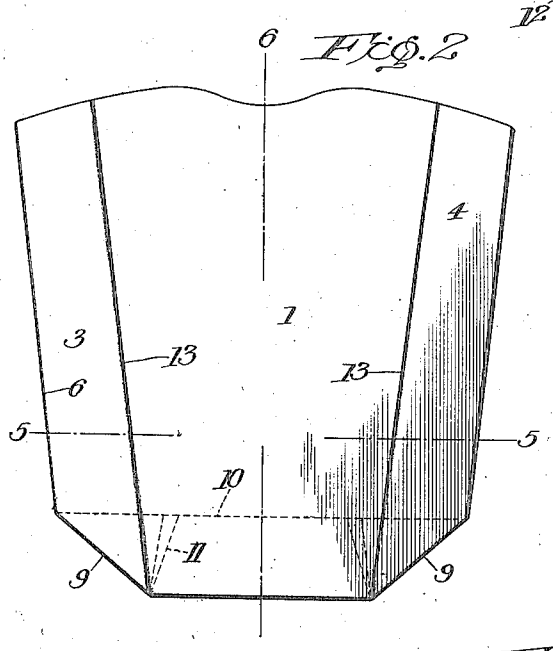


Fig. 2.



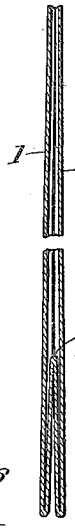


Fig. 6.

Fig. 5.

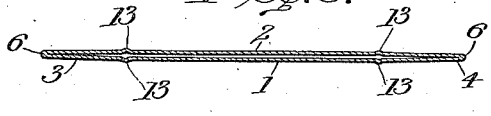
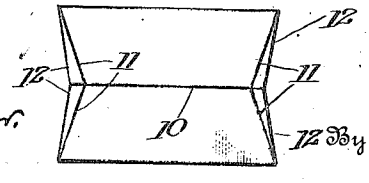


Fig. 3.



Witness

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UNITED STATES PATENT OFFICE.

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COLLAPSIBLE DRINKING-CUP.

1,255,133. Specification of Letters Patent. Patented Feb. 5, 1918.

Application filed February 5, 1917. Serial No. 146,704.

To all whom it may concern:

Be it known that I, PAUL H. CARR, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Collapsible Drinking-Cups, of which the following is a specification.

Owing to State and municipal sanitary regulations, the use of paper cups is quite extensive. Some of the cups in use are molded in permanent extended position, while the large majority of cups in use are made in the form of collapsible cups. Objection has been found to the collapsible cup in that it is practically impossible to extend the cup for use without inserting the finger or some device to open the cup. This is frequently inconvenient when a person has a bundle in one hand. Again the collapsible cup now in extensive use is objectionable in that it does not open up symmetrically and frequently buckles, whereby it is awkward to drink from said cup.

The object of my invention is to provide a collapsible paper cup which may be opened to extended position for use by simply pressing inwardly upon two opposite walls of the cup, thereby eliminating the necessity of using two hands to open the cup; with these and other objects in view my invention consists of the parts and combination of parts as will be hereinafter pointed out.

In the drawing

Figure 1 is a perspective view of a collapsible cup in extended position, embodying my invention.

Fig. 2 is a front elevation of my improved collapsible cup in collapsed position.

Fig. 3 is a bottom plan view of my improved cup shown in extended position.

Fig. 4 is a view showing the position of the walls of the cup after the side walls have been pressed slightly inward.

Fig. 5 is a section on the line 5—5 Fig. 2.

Fig. 6 is a sectional view on the line 6—6 Fig. 2.

My improved cup is provided with front and rear walls 1 and 2, side walls 3 and 4, and the bottom wall 5.

The side walls are provided with scores 6 and 7 extending vertically thereof and parallel with the line of juncture between the side and the front and rear walls, the score 6 being formed to permit the major portion of the side wall to fold outwardly while the score 7 is such as to permit the minor portion of the side wall to fold inwardly as shown in the several views. The side walls are also provided with scores 8 and 9 extending from the juncture of the scores 6 and 7 to the lower corners of the cup as clearly shown in Fig. 1, said scores 8 and 9 coöperating with the score 7 to permit the inward folding of the lower portion of the side walls as shown in Fig. 4.

The bottom wall 5 is scored along the line 10 to permit of the inwardly folding of the bottom wall as clearly shown in Fig. 4, the score 10 being in alinement with the score 7. The bottom wall, as shown in Fig. 3, is dished at its ends and scored along the lines 11 for an inward fold and scored along the lines 12 at the juncture with the side walls for an outward fold so that there is a triangular portion in the bottom wall between the scorings 11 and 12 as clearly shown in Fig. 3.

As will be seen from Fig. 5 the cup at the juncture of the vertical walls is scored as at 13 to facilitate the extension of the walls to extended position to insure a straight fold at the juncture of the walls.

As will be seen from the drawing the cup is adapted to be collapsed and when in collapsed position the two side walls, or two oppositely disposed walls, of a cup, are folded outwardly beyond the line of juncture between the side and front and rear walls, whereby inward pressure upon the outwardly folded walls, in the manner illustrated in Fig. 4 will move said side walls to extended position, and when the side walls are moved to extended position they force the front and rear walls apart and thus move all of the walls of the cup, including the bottom wall, to extended position and open the cup for use.

What I claim is:

1. A collapsible drinking cup having integral bottom, and side, front and rear walls extending therefrom, certain of said walls being overlapped and adhesively secured together thereby presenting a cup having side walls of a substantially single thickness when folded together, said side walls being folded outwardly and the bottom wall folded inwardly when in collapsed position whereby the front and rear walls may lie in intimate contact throughout their major area, a score for an inward fold in the bottom wall, a score in the side walls, a portion of which is for an outward fold and a por-

tion for an inward fold, all of said scores always lying in the same plane whereby the front and rear walls, above the inward fold of the bottom wall, are free to be in intimate contact with each other throughout their area, whereby inward pressure upon the outwardly folded side walls will move all of the walls of the cup to extended position and thus open the cup ready for use.

2. A collapsible drinking cup the side walls of which are scored vertically whereby they will fold outwardly beyond the body lines of the cup when collapsed, the lower end portion of said side walls being scored in line with the first named score but folded inwardly when in collapsed position, scores extending from the juncture of the two above mentioned scores in the side walls to opposite corners at the bottom of the cup and a score extending centrally across the bottom wall of the cup from side wall to side wall and a score in the bottom wall extending from each corner of the bottom wall and intersecting the said central score of said bottom wall.

In testimony whereof I affix my signature.

PAUL H. CARR.