

BOX.

Patented July 13, 1909.

927,800.



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# UNITED STATES PATENT OFFICE.

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BOX.

No. 927,800.

Specification of Letters Patent

Patented July 13, 1909.

Application filed February 23, 1909. Serial No. 479,513.

*To all whom it may concern:*

Be it known that I, FRANK JAGER, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Boxes, of which the following is a specification.

This invention relates to boxes and relates particularly to boxes formed from folding blanks, usually straw board or the like, and particularly designed and adapted for containing matches, tooth picks and similar articles.

Among the objects of the invention are to economize stock in the construction of the boxes, while, at the same time, providing boxes of adequate strength; and to economize matches, tooth picks and the like, contained in said boxes for use. To effect these objects, a box embodying my invention is provided with a top or cover permanently secured thereto, whereby I am able to effect a large saving in stock used in making the boxes, said box being provided with a suitable hole or opening in the corner of one side of the box, through which the ends of the matches or the like are exposed lengthwise and may be grasped, as by the thumb and finger, and withdrawn, thus preventing any considerable number thereof from being withdrawn at the same time.

The invention also consists of the various other features and details of construction hereinafter described and claimed.

In the accompanying drawing, in which my invention is fully illustrated—Figure 1 is an isometric view of a box of my invention, filled, finished, and ready for use. Fig. 2 is an isometric view of the box ready for filling and for closing the cover; and Fig. 3 is a plan view of a blank suitable for forming one of my improved boxes, showing a desirable manner of scoring, slitting and folding same.

Referring now particularly to Fig. 1 of the drawing, A designates, as a whole, one of my improved boxes. Said box A may be made of suitable shape and size to contain a desired number of any particular articles, as matches, tooth picks, or the like. The box A is preferably made from a blank of straw board or the like slit and scored in proper manner to be quickly and conveniently folded to form said box. Any desired or suitable form of blank may be used from which to make the box A, and numerous

forms of blank suitable for this purpose will readily suggest themselves to persons skilled in the manufacture of such boxes.

For purposes of illustration I have, in Fig. 3 of the drawing, shown a simple form of blank for forming my improved box, said blank, designated as a whole by B, being slit and scored to form sections 1, 1<sup>1</sup> which form the top and bottom, respectively, of the box; sections 2, 2<sup>1</sup> and 2<sup>2</sup> which form the lateral edges of the box, the sections 2<sup>1</sup> and 2<sup>2</sup> overlapping when the blank is folded; sections 3, 3<sup>1</sup>, 3<sup>2</sup> and 3<sup>3</sup> adapted to be folded and overlapped to form the ends of the box; and sections 4, 4<sup>1</sup>, 4<sup>2</sup> and 4<sup>3</sup> adapted for forming flaps for reinforcing the corners of the box.

In folding the blank B to form the finished package A, said blank is first folded to form the body portion of the box, the interfolded sides and flaps thereof being secured together and the top being left open, all as shown in Fig. 2. The merchandise, as matches, tooth picks, or the like, are then placed in the box A, the cover folded down to close the top of the box and the flaps at the edges of said cover interlocked with the lateral sides of the body portion of the box and permanently secured thereto. It is obvious that the construction of a package of this character will require very much less stock than boxes of the usual character comprising a body portion for containing the articles for which they are designed and a removable cover for closing the top thereof.

To provide for withdrawing articles from the box, a suitable hole or opening 5 is formed at a corner of a side of the box through which the ends of articles contained in said box are exposed lengthwise, said hole being of such size that the ends of only comparatively few of the articles, as matches or the like, contained in said box, will be exposed therethrough at any given time. Preferably, also, said hole or opening 5 is of such length that less than one-half of the length of the articles contained in said box will be exposed through said opening.

When the contents of the box A have been partly used, it may be necessary to tilt the box in order to cause the articles contained therein to move into position over said opening 5. In use, I prefer to provide a hook or ring 6 on the box by means of which it may be suspended, whereby the contents of said box will fall by gravity so that a part thereof will at all times be exposed through said



opening 5. By making the opening 5 relatively short lengthwise of the box, it will be possible to grasp only a comparatively small number of the articles contained in said box, 5 for the purpose of withdrawing the same from the box.

It will be observed that it is advantageous to have the opening in the front wall only of the box since thereby the rigidity of the 10 box is preserved, thus permitting it to be made of the cheaper grades of paper-board and the like. It is also advantageous in that the articles may be withdrawn while the rear side of the box is lying against 15 a flat surface such as a wall, show-case, or table-top. It will be seen also that in view of the fact that the opening is only in the front wall it is necessary that it be at one corner where it will expose the end-portions of 20 the matches and permit them to be withdrawn endwisely in a lateral direction, and in order that this may be done without tearing or unduly bending the edges of the opening it is advisable that the opening shall run up 25 along the vertical edge of the box a short distance as well as along the bottom. Thus having the opening in the front wall only is further advantageous in that it leaves the bottom and edge walls entirely intact and 30 thereby not only prevents the corner being crushed or torn in packing and shipping but also prevents the matches spilling out during transmission. This construction also permits the box to be used by the manufacturer 35 as an original or shipping package and by the user as a dispensing package. It will be observed further that the opening is made by cutting away the front wall on a line across the corner, forming an opening of approximately 40 triangular shape which shall have but

one unsupported edge and shall expose the portions of the edges of the bottom and side walls surrounding the opening. By reason of this construction the matches may be made of a length to exactly fit the box so 45 that their ends shall abut squarely against the vertical side wall and yet can be removed by simply grasping them with the fingers and forcing their inner ends backwardly a short way into the mass of matches, thus avoiding 50 the necessity of providing a hole in the side wall for their withdrawal and avoiding the necessity of bending the walls in extricating the matches. The most important advantages, however, are perhaps that with a 55 delivery opening of this character it can be made comparatively small and is so protected against tearing that the box can be transported and handled without specially wrapping or protecting it. 60

I claim:—

As an improved article of manufacture, an original shipping and dispensing box closed on all sides and adapted to contain matches or the like and having its front wall cut away 65 across one of its lower corners to form an opening of triangular shape approximately, said opening extending inwardly part way along the bottom wall and upwardly part way along the adjacent vertical wall and said 70 bottom wall and said vertical wall being left intact with their edges exposed.

In testimony, that I claim the foregoing as my invention, I affix my signature in presence of two subscribing witnesses, this 19th 75 day of February, A. D. 1909.

FRANK JAGER.

Witnesses:

K. A. COSTELLO,  
E. L. NICHOLSON.