Sept. 3, 1929. W. B. DORAN 1,726,732

PACKING DEVICE

Filed March 23, 1926

FIG. 1

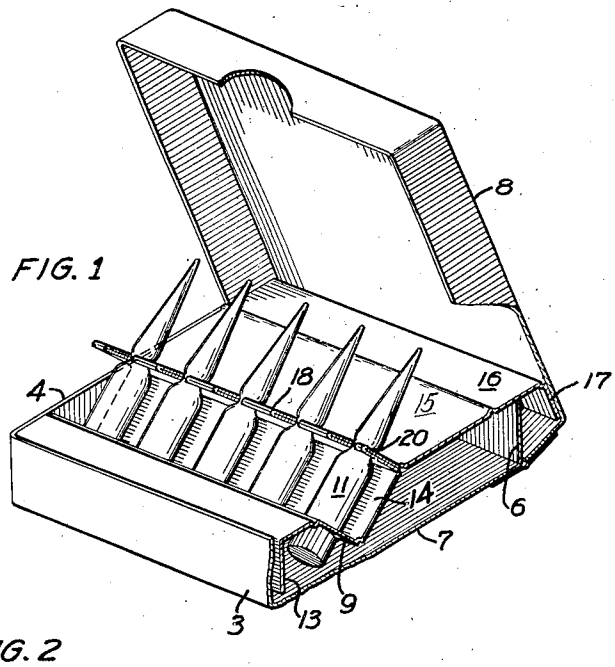


FIG. 2

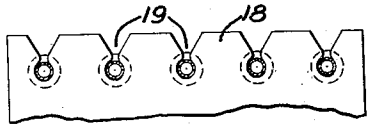


FIG. 3

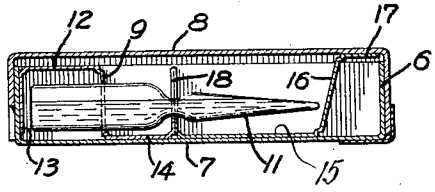
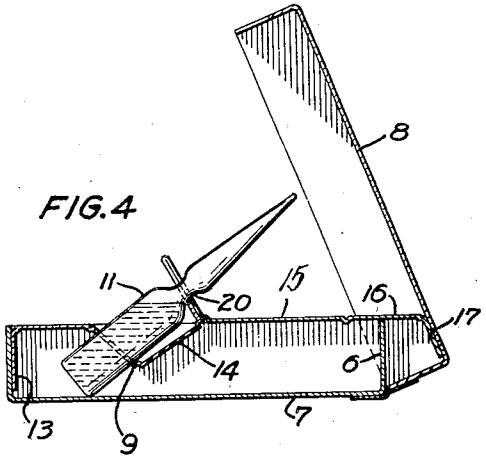


FIG. 4



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Patented Sept. 3, 1929. 1,726,732

UNITED STATES PATENT OFFICE.

WALTER B. DORAN, OF HUNTINGTON PARK, CALIFORNIA, ASSIGNOR TO THE PARAFFINE COMPANIES, INC., OF SAN FRANCISCO, CALIFORNIA, A CORPORATION OF DELAWARE.

PACKING DEVICE.

Application filed March 23, 1926. Serial No. 96,705.

My invention relates to a packing device, and particularly to a container for frangible objects such as tubes, bottles, ampoules, vials, and culture tubes.

An object of my invention is the production of a packing device which will hold one or more such objects securely in position so that they cannot be displaced during handling and shipping.

Another object of my invention is the production of a packing device having its parts so arranged that the lifting of the cover brings the contents of the container into a position in which they can be conveniently grasped and their removal thus facilitated.

A further object of my invention is the provision of a packing device which can also be used as a display stand for the articles packed therein.

My invention possesses other objects and features of advantage some of which with the foregoing will be set forth in the following description of the preferred form of my invention which is illustrated in the drawings accompanying and forming part of the specification. It is to be understood that I do not limit myself to the showing made by said drawings and description, as I may adopt variations of the preferred form within the scope of my invention as set forth in the claims.

Referring to the drawings:

Figure 1 is a perspective view of my packing device when the cover is opened, a portion being broken away to show the construction.

Figure 2 is a detail in plan of a portion of the cradle flange of my device.

Figure 3 is a sectional view of my packing device when closed. The plane of section is a vertical one extending from front to back between two of the ampoules.

Figure 4 is a similar sectional view of my packing device when open.

Broadly the packing device of my invention comprises a receptacle of suitable size, to which a cover is preferably pivotally secured. Display and advertising matter may be shown on the inside of the cover if desired, so that the packing device may be used to advertise the goods. Pivotally arranged within the receptacle is a cradle comprising a seat and back on which may be mounted frangible objects such as ampoules, vials, or small tubes. The cradle is connected to the cover so that when the cover is raised, one end of the cradle is lifted, its back lying at an angle to the bottom of the receptacle, in a position better to display the article or object in the cradle, and render it more readily accessible.

In detail my packing device comprises a receptacle having front, side and rear walls 3, 4, and 6 respectively, and a bottom 7. Pivotally mounted on the receptacle, preferably adjacent the lower edge of the rear wall 6, is a cover 8. The receptacle and cover may be made of any suitable material, such as paper board, and if desired advertising or display matter may be included at the proper places.

Arranged in the receptacle is a cradle formed of a cut and folded strip, comprising a seat 9, in which a plurality of apertures are formed, to receive the body 11 of the ampoule or other similar object. The seat 9 is preferably mounted on the receptacle by having its front edge hingedly united to a strip 12 having the downturned flange 13 adhesively united to the inner face of the front wall 3. At its opposite edge the seat is hinged to the back 14 of the cradle. The other edge of the back is connected by means of strip links 15 and 16, having the flange 17 adhesively united to the cover adjacent the rear wall thereof, so that the cradle is pivotally suspended from the front wall of the receptacle and the rear of the cover, and is free of contact, or contacts lightly, with the side walls 4. It will be obvious that the entire cradle and its connecting and mounting parts is formed of a single sheet suitably creased to facilitate its action when the cover is raised or lowered.

When the cover is in closed position the back of the cradle is substantially parallel and contiguous to the bottom of the receptacle, and the link 16 lies substantially parallel to the rear wall 6. Any objects arranged in the cradle lie in a plane parallel to the bottom of the receptacle.

As the cover is raised, the link 16 is drawn over and rests upon the top of the rear wall 6, so that it is in a plane substantially perpendicular to the one in which it lies when the device is closed. The shifting of the position of the link causes the back of the

cradle to lie in a plane at an angle to the bottom of the receptacle, and any objects on the cradle lie at a similar angle, so that one end being higher than the other their removal or insertion is greatly facilitated. For the purposes of display this position will be found most effective.

In order to insure the proper retention of objects contained in my packing device, I have found it desirable to include on the upper side of the cradle, and spaced a suitable distance from the seat, a flange or bracket 18, in which slots 19 forming yokes are provided. The yokes are alined with the apertures in the seat, and are adapted to resiliently engage the necks 20 of the ampoules 11. The flange may be conveniently formed by doubling together a portion of the strip, forming the cradle, so as to make an upstanding portion, the abutting surfaces of which are preferably adhesively held together. This arrangement of parts is such that a hinge joint is provided at the base of the bracket which tends resiliently to thrust upwardly, thus further aiding in displaying the goods and increasing their accessibility since it increases the angle at which the cradle lies when the cover is raised.

The packing device of my invention finds its greatest use in the handling of the frangible containers of serums, toxins, cultures, and other small dosages such as are usually administered with a hypodermic needle. It will also be found very adaptable to the packing, shipping and displaying of perfumes or similar matter customarily vended in glass bottles or tubes.

I claim:

1. A packing device comprising a container, a cradle comprising a structurally continuous strip, hingedly secured to said container, a seat in the cradle provided with apertures, and means, integral with said cradle, cooperating with said apertured seat for holding an object.

2. A packing device comprising a container, a cradle, comprising a structurally continuous strip, hingedly secured to said container, a seat in the cradle provided with apertures, and a bracket integral with the cradle having recesses alined with said apertures to form a retainer for holding an object.

3. A packing device comprising a receptacle, a cover pivotally secured to the bottom of the rear wall of said receptacle, a cradle comprising a structurally continuous strip, secured at one end to the front of the receptacle and at the other end to the cover adjacent the rear thereof, and means on said cradle for holding an object.

4. A packing device comprising a receptacle, a cover pivotally secured to said receptacle, a cradle secured at one end to the front of the receptacle and at the other end to the cover, adjacent the rear wall thereof, said cradle lying adjacent the bottom of the receptacle when the cover is in closed position and at an angle to the bottom of the receptacle when the cover is in open position, and means on said cradle for holding an object.

5. A packing device comprising a receptacle, a cover pivotally secured to said receptacle, and a cradle, comprising a structurally continuous strip, for holding objects, pivotally attached to the front of the receptacle and to the rear of the cover.

6. A container comprising a receptacle having front, rear and side walls, a cover hingedly secured to the rear wall of the receptacle, a cradle comprising a strip cut and folded to form an apertured seat and a recessed bracket for holding an object and pivotally attached to the front wall of the receptacle and to the cover adjacent the rear wall.

7. A packing device comprising a receptacle, a cover pivotally secured to the rear of said receptacle, a cradle comprising a series of connected links, secured at one end to the front of the receptacle and at the other end to the cover adjacent the rear thereof, and means on said cradle for holding an object.

In testimony whereof, I have hereunto set my hand.

WALTER B. DORAN.