

F. J. NOVOTNEY.
 BELLOWS BOX.
 APPLICATION FILED OCT. 10, 1919.

1,388,293.

Patented Aug. 23, 1921.

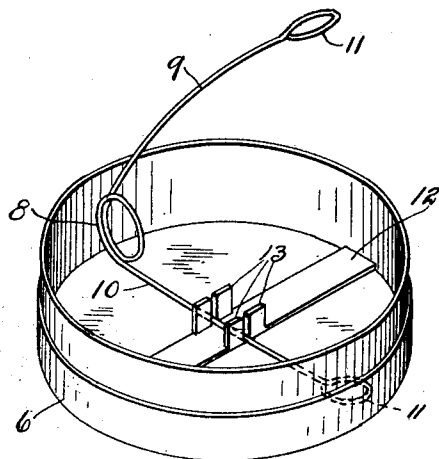


Fig. 1.

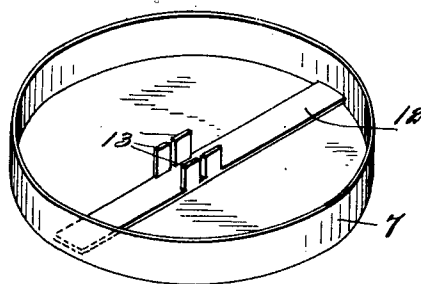


Fig. 2.

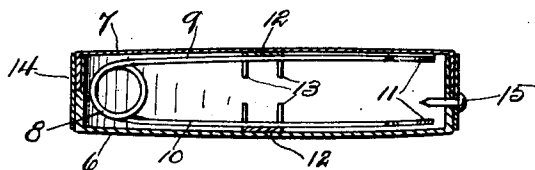


Fig. 3.

Witness:

R. S. Hamilton

INVENTOR

Frank J. Novotney,

BY

Charles E. Leonard
 his ATTORNEY.

UNITED STATES PATENT OFFICE.

FRANK J. NOVOTNEY, OF KANSAS CITY, MISSOURI.

BELLOWS-BOX.

1,388,293.

Specification of Letters Patent. Patented Aug. 23, 1921.

Application filed October 10, 1919. Serial No. 329,861.

To all whom it may concern:

Be it known that I, FRANK J. NOVOTNEY, a citizen of the United States, and resident of Kansas City, county of Jackson, and State of Missouri, have invented a certain new and useful Improvement in Bellows-Boxes, of which the following is a complete specification.

The present invention relates to receptacles designed especially for containing powdered material, and aims to provide an improved bellows-box structure for containing a suitable quantity of such material and adapted to permit ejecting the same therefrom at will in the well known bellows manner. The object is principally to devise a simple, inexpensive, and yet practical device of this character for use in connection with small quantities of powdered material.

Accordingly I provide a sectional box structure of cheap material, such as paper, one or both sections of which are adapted to afford a diaphragm action together with a spring element interposed between the sections, the latter being retained together by means of a suitable adhesive strip.

With these general objects in view, the invention will now be described by reference to the accompanying drawing illustrating one form of construction, after which the novel features therein will be set forth in the appended claim.

In the drawing—

Figure 1 is a perspective view showing one of the box sections with a spring element associated therewith;

Fig. 2 is a similar view of the other box section; and

Fig. 3 is a central sectional view of the complete box structure in closed position.

Referring to the drawing in detail, this shows a box receptacle composed of two sections such as the lower section 6, forming the receptacle proper, and upper or cover section 7, adapted to telescope over the section 6. The box is preferably constructed of inexpensive material, such as a suitably heavy grade of paper material and of such a character that the main body portion of either or both sections, that is, either or both the top and bottom of the box, will be sufficiently flexible to afford a diaphragm action. Interposed between the box sections is

a spring element comprising a spring wire formed with a coil 8, and two branches 9 and 10, each terminating in a loop 11, and adapted to engage the top and bottom, respectively, of the box. Diametrical strips 12, which may also be of paper material, are suitably secured to the interior of the box section, as by pasting them in place, said strips being formed with spaced retaining fingers 13, for accommodating the branches 9 and 10 of the spring wire, and serving to hold the latter in place. The box sections are held together against the action of the spring by means of an adhesive strip 14, extending about the box and overlapping both sections, as illustrated in Fig. 3. An aperture is made in one of the sections, for example the lower section 6, by forcing a tack or pin 15, through both the strip 14 and the side of the section 6 as shown in Fig. 3. By this means the box is sealed until the tack or pin is removed, when an aperture is left through which the contents of the box may be ejected by the usual bellows action produced by pressure applied to the top and bottom of the box.

It is thus apparent that I have provided a practical and inexpensive device for fulfilling the desired objects of the invention, the mode of use of which is obvious without further explanation, and while I have described what I now find to be the preferred form of embodiment of the improvement, I desire to reserve the right to make such changes as may fairly fall within the scope of the appended claim.

What I claim is:

A bellows box comprising a receptacle composed of a pair of box sections, one of which is of flexible material providing a diaphragm portion, a spring element interposed between said sections and comprising a wire coil having a branch portion engaging said diaphragm and a second branch portion resting against the opposite portion of the box, diametrical strips provided with retaining fingers engaging said branch portions for holding the same in position, and retaining means holding said box sections together against the action of said spring.

In witness whereof I affix my signature.

FRANK J. NOVOTNEY.