

H. P. KRAFT.
BOX.

APPLICATION FILED OCT. 12, 1915.

1,435,312.

Patented Nov. 14, 1922.

Fig. 1.

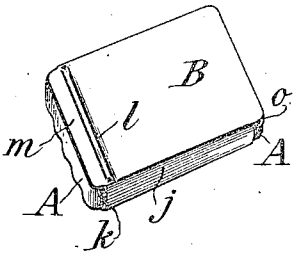


Fig. 2.

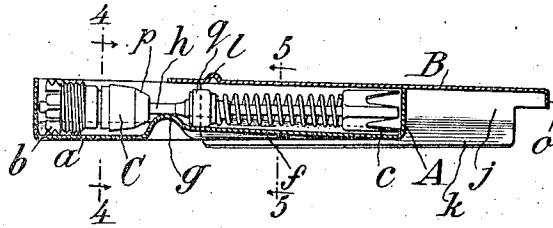


Fig. 3.

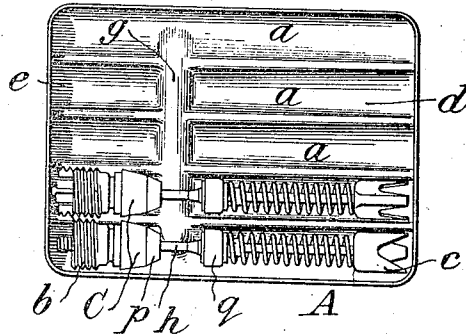


Fig. 4.

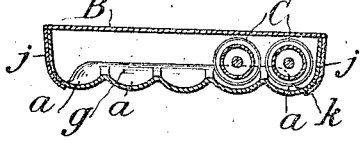
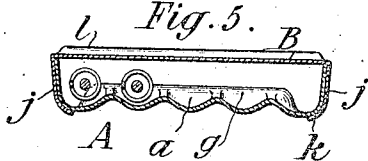


Fig. 5.



WITNESSES:

Rene Muir
Geo. White

INVENTOR :

Henry P. Kraft,

By Attorneys,

Thaw, Tuck & Munn

UNITED STATES PATENT OFFICE.

HENRY P. KRAFT, OF RIDGEWOOD, NEW JERSEY.

BOX.

Application filed October 12, 1915. Serial No. 55,466.

To all whom it may concern:

Be it known that I, HENRY P. KRAFT, a citizen of the United States of America, residing in Ridgewood, in the county of Bergen and State of New Jersey, have invented certain new and useful Improvements in Boxes, of which the following is a specification.

This invention relates to boxes, and aims to provide certain improvements therein.

The invention is particularly directed to a construction of box designed to be used as a container for small objects, such as the inside parts of pneumatic tire valves or the like. It is desirable to pack such valves in such manner as to avoid dust and dirt, and to keep them separated as far as possible until used. The invention in its preferred form provides a box of tin or other metal which is adapted for this purpose, and which shall be of cheap and simple construction. The invention also includes certain other features of improvement which will be hereinafter pointed out.

Referring to the drawings which illustrate one form of the invention,—

Figure 1 is a perspective view of the box in a closed position.

Fig. 2 is a longitudinal sectional view, showing the cover partly open.

Fig. 3 is a top or plan view with the cover removed.

Fig. 4 is a section on the line 4—4 in Fig. 2.

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

Referring to the drawings, let A indicate the box or receptacle which in the embodiment shown is constructed of metal, or other stiff material and is designed to accommodate a series of valve insides or plungers. As shown the valve plungers are arranged lengthwise of the box, and the box is of sufficient width to enclose five plungers. B is the cover of the box which is preferably of the sliding type, and is designed to be withdrawn to the position shown in Fig. 2 or further in order to permit the removal of one or more of the valve plungers.

According to the present invention means are provided for maintaining the plungers in substantially separated condition while in the receptacle. Such means are shown as comprising a series of recesses *a* preferably formed directly in the bottom of the box. The valve plungers C of the particular

type shown are larger in diameter at the end *b* than at the end *c*. Hence I prefer to make the recess *a* shallower at the rear *d* than at the front *e*. At the same time the bottom of the box is elevated as shown at *f*. Preferably also the recesses correspond somewhat in shape to the valve plunger or other article so that the latter is supported substantially along its length.

In the type of valve plunger shown it is very desirable to maintain the seat *p* separated from the valve proper *q* until the valves are put into use. This is due to the fact that the valve proper is provided with a rubber or other packing and this packing pressing against the seat is apt to be deteriorated. By the present invention means are provided for keeping these parts separated, such means comprising a projection *g* which enters between the parts just referred to. The projection *g* is preferably stamped up from the bottom of the box and extends a sufficient distance across the box to engage each of the five valve plungers contained therein. The plungers may conveniently rest with their connecting pins *h* on the projection *g*. The cover B of the box is preferably of the sliding type, being formed with side flanges *j* which extend downwardly along the sides of the box, and are preferably bent at *k* so as to engage a portion of the bottom of the latter. In order that the box may have a smooth bearing face at this point the projections *g* are not carried all the way across the box, but are discontinued near the sides thereof at points which are sufficiently remote from the sides of the box to secure the bearing face thus referred to.

The cover of the box is preferably provided with a frictional lock to hold it in place in its closed position. To this end the cover is preferably provided with a lip *m* which is adapted to make a spring engagement with the forward edge of the box whereby the cover is frictionally held in position. It is very desirable to provide a rib, such as *l*, which stiffens the lip *m* and causes it to act more positively. The rib *l* also acts as a finger-hold in sliding the cover back. The rear edge of the cover is also preferably provided with a flange *o* which limits the forward movement of the cover on the box.

While I have shown and described the preferred construction of the invention, it

will be understood that I do not wish to be limited thereto since various changes may be made therein without departing from the invention. While I have shown the invention as adapted for valve plungers, it will be understood that it may be used as a container for other small articles.

What I claim is:—

1. A box adapted to contain a series of valve parts, each of the latter comprising a valve proper and its seat, said box having a series of grooves or recesses, each adapted to receive one of said valve parts, and an integral projection formed of the bottom of said box adapted to extend upwardly between the valve proper and its seat to hold the same separated.
2. A box adapted to contain a series of valve parts, each comprising a valve proper

and its seat, said box having integral means for holding the valve parts in spaced relation and for maintaining the valve proper and valve seat of each valve part in separated condition.

3. A box adapted to contain a series of 25 valve parts each comprising a valve proper and its seat, said box having means fixedly positioned therein and carried thereby, adapted to maintain the valve proper and valve seat of each valve part in separated condition.

In witness whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

HENRY P. KRAFT.

Witnesses:

E. E. MYERS,
FRED WHITE.