Feb. 16, 1926. 1,573,312

J. L. FRITZ

STOP BOX

Filed Oct. 29, 1923

Fig. 1.

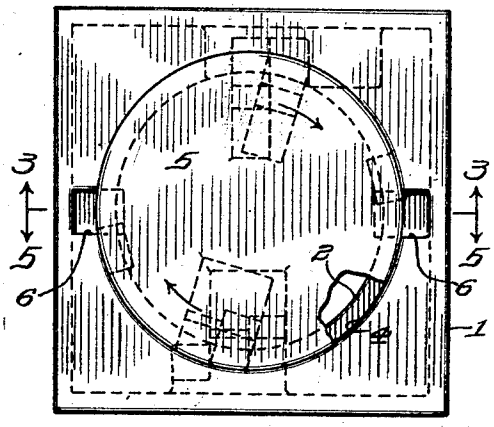


Fig. 2.

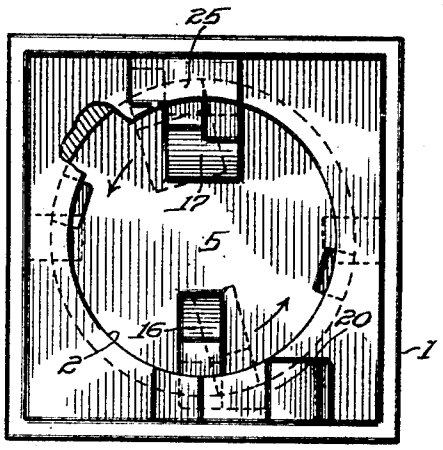


Fig. 3.

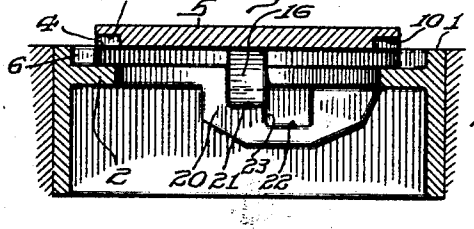


Fig. 4.

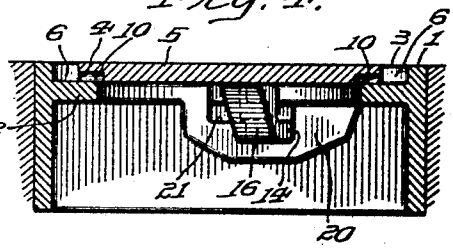


Fig. 5.

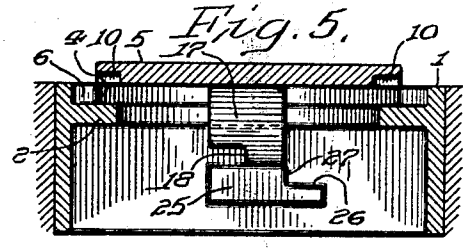


Fig. 6.

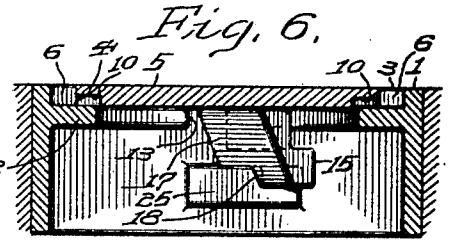


Fig. 7.

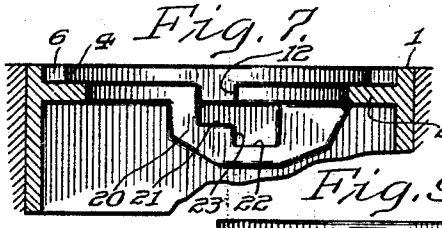


Fig. 8.

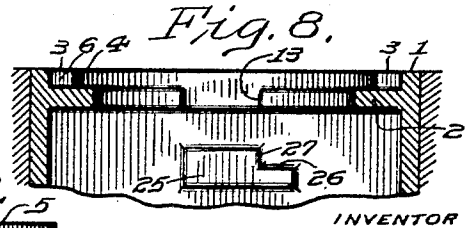
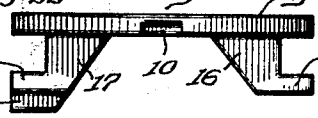


Fig. 9.



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UNITED STATES PATENT OFFICE.

JOSEPH L. FRITZ, OF PHILADELPHIA, PENNSYLVANIA.

STOP BOX.

Application filed October 29, 1923. Serial No. 671,622.

To all whom it may concern:

Be it known that I, JOSEPH L. FRITZ, a citizen of the United States, and a resident of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented an Improvement in Stop Boxes, of which the following is a specification.

My invention relates to stop boxes, and it has for its general object to provide a novel construction of means for permitting ready attachment and removal of a stop box cover and for retaining the cover in place after it has been attached.

To these and other ends my invention comprises the combination and arrangement of parts as hereinafter described and illustrated in the drawing and particularly pointed out in the claims. It will be understood, however, that changes in the details of construction may be made within the scope of the claims without departing from the said invention as the same may be defined in the claims.

In the drawing:

Fig. 1 is a top plan view of a stop box and its cover embodying my invention;

Fig. 2 is a bottom plan view;

Fig. 3 is a vertical central section taken on the line 3—3 of Fig. 1;

Fig. 4 is a view similar to that shown in Fig. 3, in which the cover is shown in a different position from what it is shown in Fig. 3;

Fig. 5 is a central vertical sectional view taken on the line 5—5 of Fig. 1, the said view being in the opposite direction from that of Fig. 3;

Fig. 6 is a view similar to that shown in Fig. 5 in which the cover is shown in a different position from what it is shown in Fig. 5;

Fig. 7 is a view of a portion of the inside of the box with the cover removed showing one of the fastening or interlocking means employed;

Fig. 8 is a similar view showing a portion of the inside of the box opposite to that shown in Fig. 7 which includes another fastening means; and

Fig. 9 shows a view in edge elevation of the cover with depending lugs which are adapted to engage and interlock with the retaining means shown in Figs. 7 and 8.

Referring to the drawing: 1 designates a stop box which is provided with an inwardly extending flange 2, the outer upper portion of which is thickened, as indicated at 3, so as to provide a shoulder at 4 within which the outer edge of a cover 5 is adapted to be seated. The lower outer edge of the said cover is adapted to rest upon the portion of the flange 2 which projects inwardly beyond the thickened portion 3.

In order to enable the lifting of the cover 5 for the purpose of removing the same from the box, I have provided notches or slots 6 in the thickened portion 3 of the flange 2, which notches or slots, when the cover is in place upon the box, are in registry with notches or slots 10 upon the underneath side of the outer edge of the cover 5. In the construction as shown the notches 6 and the notches 10 are located in oppositely disposed diametric relation to each other. The portion of the flange 2 which projects beyond the thickened portion 3 is provided with notches or slots 12 and 13 through which the outwardly projecting end portions 14 and 15 of the projections 16 and 17 which depend from the cover 5 are adapted to pass either for the purpose of attaching the cover to the body of the box or for the purpose of removing the same therefrom. The projection 15 is provided with a radially extending cut-out portion as indicated at 18. The lower and outwardly projecting end portion 14 of the depending projection 16 is adapted to enter a recess onto a seat provided upon a boss or projection 20 upon the inner side of the box 1 below the flange 2. The lower side of the said recess is provided with a relatively shallow portion or notch 21 and with a deeper recessed or notched portion 22, which portions are separated by a shoulder 23.

The lower outwardly extending end portion 15 of the projection 17 is adapted, when the lid or cover is first placed in position, to rest upon the upper side of a projection 25 in oppositely disposed relation to the projection 20. The said projection 25 is provided with a cut-out portion or notch, as indicated at 26, the presence of which forms a shoulder 27, as indicated. The seats upon the vertical walls of the box which are adapted to be occupied by the

projections 16 and 17 upon the cover when the latter is in position may be provided in any desired suitable manner.

In the placing of a lid or cover in position the lower outwardly extending end portions of the projections 16 and 17 are inserted through the notches or slots 12 and 13 respectively so that the lower edge of the projection 16 will rest upon the upper side of the portion 21, while the lower edge of the projection 17 will rest upon the upper side of the projection 25. The lid or cover is then turned to the right so as to move or carry the outwardly extending projection 14 of the depending lug or projection 16 onto the portion 22 of the lug or projection 20 with one edge thereof bearing against the shoulder 23. At the same time the lower outwardly extending end portion of the lug 17 is moved to the left so as to cause the cut-out portion 18 of the projection 17 to engage the shoulder 27 of the projection 25.

It will be seen that when the lid or cover is in this position it cannot be turned to the left for the purpose of removing the same without first lifting it from the flange 2, and it will also be apparent that the said lid or cover cannot be lifted vertically upwardly so as to remove the same from the box because of the fact that when placed in final position the outwardly extending projections 14 and 15 of the depending lugs or projections 16 and 17 are located or situated underneath portions of the flange 2 adjacent the notches 12 and 13.

It will be seen that by my invention I have provided a stop box construction in which the lid or cover may be readily placed upon the box and removed therefrom. It will also be seen that when the lid or cover is once placed in position it is practically impossible for the same to be dislocated or removed accidentally.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. In a stop box, the combination of a box having a flange adjacent its upper end and extending inwardly, which flange is provided with notches extending therethrough and the said box also having lugs or projections located below the said flange, which lugs or projections are provided with notches in their upper edges which form vertical shoulders, and a cover for the said box, which cover is provided with depending projections the lower edges of which terminate in outwardly projecting extensions which are adapted to engage said shoulders whereby the said cover is prevented from turning in one direction until it is lifted vertically a distance sufficient to disengage the said projecting extensions from said shoulders.

2. In a stop box, the combination of a box having an inwardly extending flange situated adjacent its upper end, which flange is provided with notches located at intervals therein, projections situated upon the inner side of the said box below the said flange, which projections are in co-operative relation to the said notches, and each of the said projections being provided with horizontal surfaces upon their upper sides located in different planes and separated from each other by substantially vertical shoulders, and a cover provided with depending projections the lower edges of which terminate in outwardly extending portions which are adapted to engage the shoulders separating the horizontal surfaces of the said inwardly extending projections, substantially as described.

3. In a stop box, the combination of a box provided with an inwardly extending flange adjacent its upper end, which flange is provided with notches, and the said box being provided with projections upon the inner side thereof below the notches through the said flange, one of the said projections being provided with a notch the bottom of which comprises surfaces located in different horizontal planes, which surfaces are separated by a shoulder, and the other of said projections being provided with a cut-out portion in its upper side, which cut-out portion forms a shoulder, and a cover provided with depending lugs or projections having outwardly and radially extending projections at their lower ends which latter projections are adapted to engage the shoulders upon the projections upon the inner side of the said box, substantially as described.

4. In a stop box, the combination of a box having an inwardly extending flange like portion, the outer portion of which is thickened to provide an inner ledge, the said thickened portion being provided with notches at intervals therein, and the said ledge being provided with slots at intervals therein, and the said box being provided with projections situated below the said slots, which projections are provided with notches in their upper sides, and a cover having depending lugs the lower ends of which are provided with outwardly extending projections which are adapted to enter the said slots and to engage the notches in the projections upon the said box, substantially as described.

5. In a stop box, the combination of a box having an inwardly extending flange located at its upper end, which flange is provided with notches located at intervals therein, seats located upon the inner side of the said box below the said flange, which seats are in cooperative relation with the said notches and each of the said seats being provided with horizontal surfaces upon

their upper sides located in different planes and separated by substantially vertical shoulders, and a cover provided with depending projections, the lower edges of which terminate in outwardly extending portions which are adapted to engage the said shoulders whereby turning of the said cover horizontally in one direction is prevented until it is lifted vertically so as to disengage the said outwardly extending portions of the said projections from the said shoulders.

In testimony that I claim the foregoing as my invention, I have hereunto signed my name this 26th day of October, 1923.

JOSEPH L. FRITZ.