

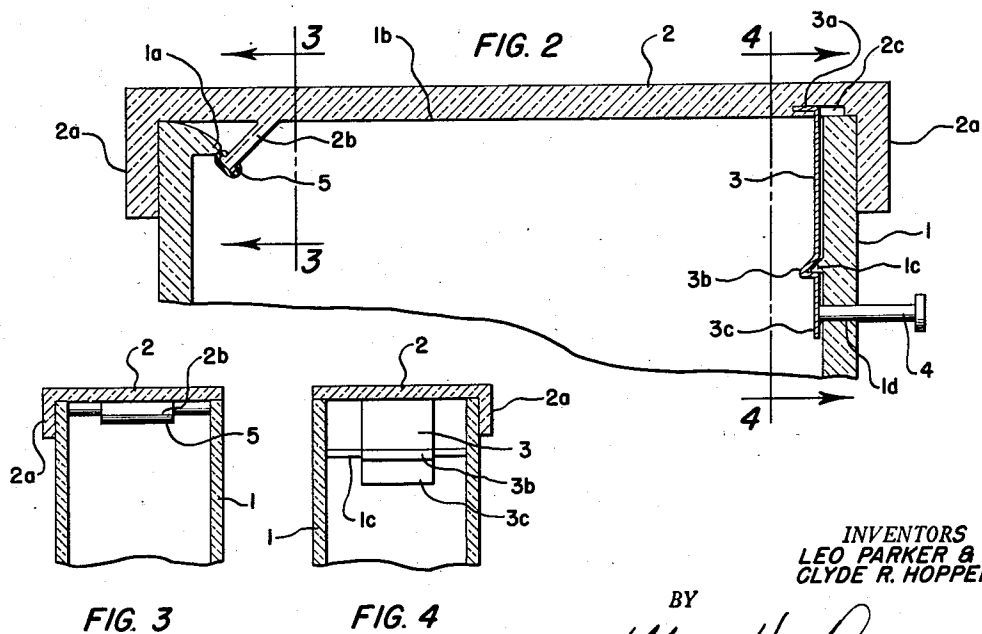
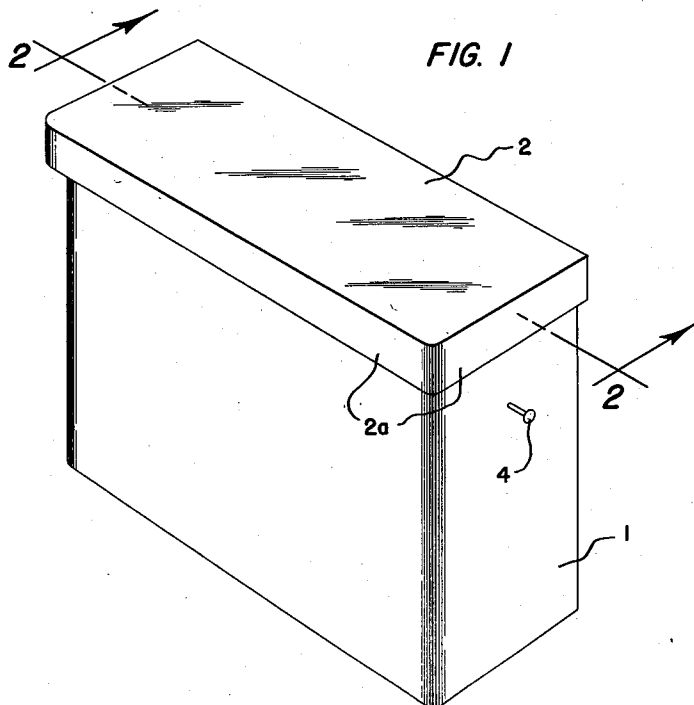
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COVER AND LOCK FOR TOILET FLUSH TANKS

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COVER AND LOCK FOR TOILET
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1 Claim. (Cl. 4-68)

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Our invention relates to a cover and lock for toilet flush tanks, and the objects of our invention are:

First, to provide a cover and lock of this class which effectively prevents the inadvertent breakage of toilet flush tank covers of conventional design which may be easily displaced from the conventional tank, permitting same to fall and crack;

Second, to provide a cover and lock of this class which is readily adapted for use in connection with toilet flush tanks with only slight changes;

Third, to provide a cover and lock of this class which is very simple and easy to engage or disengage when placing or removing covers of toilet flush tanks;

Fourth, to provide a cover and lock for toilet flush tanks which does not obstruct the operating mechanism within the tank; and

Fifth, to provide a cover and lock for toilet flush tanks of this class which is very simple and economical of construction, efficient in operation, and which will not readily deteriorate or get out of order.

With these and other objects in view, as will appear hereinafter, our invention consists of certain novel features of construction, combination and arrangement of parts and portions as will be hereinafter described in detail and particularly set forth in the appended claims, reference being had to the accompanying drawings and to the characters of reference thereon, forming a part of this application, in which:

Fig. 1 is a perspective view of our cover and lock for toilet flush tanks, shown on a flush tank. Fig. 2 is an enlarged fragmentary sectional view, taken from the line 2-2 of Fig. 1. Fig. 3 is a reduced sectional view taken from the line 3-3 of Fig. 2. Fig. 4 is a reduced sectional view taken from the line 4-4 of Fig. 2.

Similar characters of reference refer to similar parts and portions throughout the several views of the drawing.

The tank 1, cover 2, latch 3, latch release 4, and pad 5 constitute the principal parts and portions of our cover and lock for toilet flush tanks.

The tank 1 is a substantially conventional rectangular tank, provided with an inwardly extending flange piece 1a, on one end thereof adjacent the upper open side of the tank, as shown in Fig. 2 of the drawings. The cover 2 is substantially rectangular, having overlapping

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downwardly extending edge portions 2a at the front and opposite ends of the tank 1, as shown in Fig. 1 of the drawings, which edges 2a extend some distance below the upper open edge 1b of the tank 1, as shown best in Fig. 2 of the drawings. Integral with the cover 2 is a projection 2b, extending downwardly on an incline toward the flange 1a of the tank 1. Secured on the end of this projection 2b is the pad 5, which is made of any suitable resilient or flexible material desired. This pad 5 engages the flange 1a at its inwardly extending smooth, rounded end, and the resilient character of this pad 5 maintains slight tension on the cover 2, holding the same downwardly over the upper end of the tank 1. In the opposite end of the cover 2 from the projection 2b, we have provided a slot 2c, in which the angularly extending end 3a of the spring latch 3 is engaged. This spring latch 3 extends at substantially right angles to the plane of the cover 2 and is provided with an offset latch portion 3b engaging an inwardly extending projection 1c on the inner end wall of the tank 1. The latch 3 is provided with an arm portion 3c extending beyond the offset latch portion 3b, engageable by the reciprocally operated latch release 4, which is slidably mounted on a horizontal bore portion 1d in one end wall of the tank 1, as shown best in Fig. 2 of the drawings.

The operation of our cover and lock for toilet flush tanks is substantially as follows:

When the cover 2 is secured on the tank 1, as shown in Fig. 2 of the drawings, the projection 2b, which is rigid, supports the flexible pad 5 in firmly engaged relationship with the inwardly extending flange 1a near the upper end of the tank 1. The resilient character of the latch 3 tends to force the same against the inner end wall of the tank 1 into secure engagement with the inwardly projecting latch portion 1c integral with the inner side of the end wall of the tank 1, as shown in Fig. 2 of the drawings. The cover 2 is thus prevented from inadvertent removal from the tank 1, and in the event it is desired to remove the cover 2 from the tank 1, the latch release 4 is pressed inwardly, which engages the arm portion 3c of the latch member 3, thus disengaging the offset portion 3b from the latch portion 1c of the tank 1, permitting the flanges 2a of the cover 2 to be engaged for vertically moving the latch end of the cover 2 upwardly to a slightly inclined position, so that the pad 5 may be resiliently

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disengaged from the inwardly extending flange 1a by forcing the same thereover.

Though we have shown and described a particular construction, combination and arrangement of parts and portions, we do not wish to be limited to this particular construction, combination and arrangement, but desire to include in the scope of our invention the construction, combination and arrangement substantially as set forth in the appended claim.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is:

The combination with a rectangular flush tank having an open end, said tank provided with an inwardly extending flange portion at the upper edge of one end thereof, said flange being curved downwardly on its upper edge and terminating in a rounded or curved extremity, of a flanged cover for said tank adapted to be positioned thereover, said cover provided with a downwardly and outwardly inclined projecting portion adjacent to and inclined toward said flange portion, a pad on the end of said projecting portion engaging the rounded lower extremity of said flanged portion in slightly overlapped relation therewith when the cover is in closed position on said tank, a resilient latch

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connected to said cover near its opposite end, extending downwardly into said tank, a projection having an upper beveled portion and a lower shoulder extending from the inner side wall of said tank, said latch having a lower offset shoulder portion and a beveled upper portion engageable with said projection, said tank having an opening extending through the side wall thereof, and a release member slidably mounted in said opening, adapted to engage and deflect said latch member for disengaging the same from said inwardly projecting portion of said tank.

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