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Aug. 31, 1926. 1,597,728

T. G. SADLER

LID LATCH

Filed July 19, 1924

Fig. 1

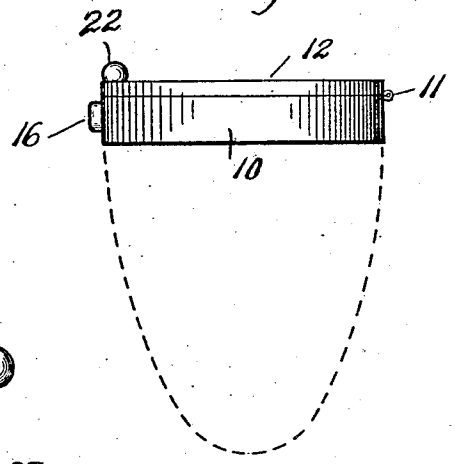


Fig. 5

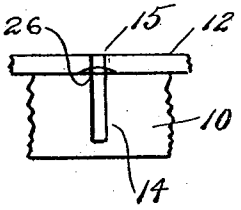


Fig. 6

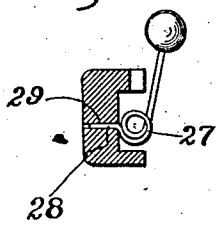
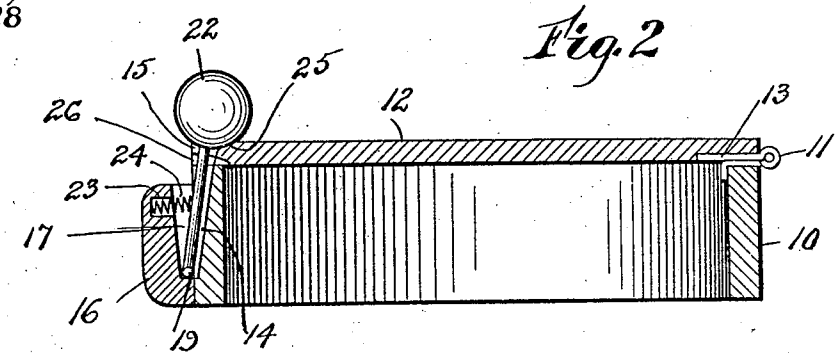


Fig. 2



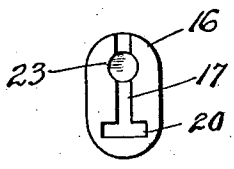


Fig. 3

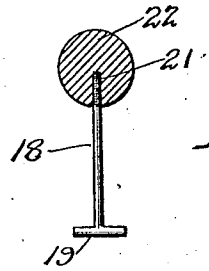


Fig. 4

Inventor

Thomas G. Sadler

By Barlow & Barlow

Attorneys

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UNITED STATES PATENT OFFICE.

THOMAS G. SADLER, OF SOUTH ATTLEBORO, MASSACHUSETTS, ASSIGNOR TO THE FIRM SADLER BROTHERS, COMPRISING HERBERT A. SADLER AND THOMAS G. SADLER, OF SOUTH ATTLEBORO, MASSACHUSETTS.

LID LATCH.

Application filed July 19, 1924. Serial No. 726,965.

This invention relates to an improved construction of a lid-latch, more particularly adapted for use as a snap-latch for locking the lid or cover of a receptacle, such as a lid for the top of a lady's hand bag, vanity case and the like; and the object of this invention is to fix a separate block or button to the frame portion of the bag-top and cause the block to cooperate with the frame to retain the lower enlarged end of the spring-pressed detent shank to swing in a socket, the upper or free end of the shank being provided with a head to engage and lock the lid closed.

With these and other objects in view, the invention consists of certain novel features of construction, as will be more fully described, and particularly pointed out in the appended claims.

In the accompanying drawings.

Figure 1 is a side elevation showing my improved lid-latch as applied to a bag-top.

Figure 2 is an enlarged sectional elevation showing the detent as pivoted in the hinge-block both the block and the frame having cooperating registering slots for the reception of the detent.

Figure 3 shows the slot and recesses or sockets formed on the inner face of the block.

Figure 4 is an elevation of the detent showing the shank as being provided with a T-shaped head at one end and threaded into an enlarged head at its upper end.

Figure 5 is a front view showing a fragmental portion of the bag frame with a slot for the reception of the detent shank formed in its face.

Figure 6 is a modification in which the spring is provided by a coiling in the shank of the detent.

It is found in practice of advantage in the manufacture of detents for bag-tops and other similar devices, to slot the outer face of the bag-top frame and to fix to the frame a button or block having a similar, cooperating, registering slot for the reception of the shank of the detent in which it may swing and to provide a socket either in the block or in the frame member at the bottom of the cooperating slots for the reception of an enlargement at the lower end of the detent shank; also to provide a socket for the reception of the spring for pressing the free end of the shank to locked position; and the following is a detailed description of one construction by which these advantageous results may be accomplished:—

With reference to the drawings, 10 designates the frame or top portion of a lady's hand bag, which may be constructed from a strip of celluloid or other suitable material bent into the desired oblong or other shape and its ends secured together by any suitable means, usually at the hinge 11 at the rear of the frame. A lid 12 is also provided which is connected at 13 to one of the members of the hinge 11. The front edges of both the frame and the lid are slotted vertically as at 14 and 15, the slots aligning with each other.

I have also provided a block or button 16 which as best shown in Figure 3, is provided with a slot 17 on its inner face to register with the slot 14 in the outer face of the frame.

In order to retain the cover or lid in closed position, I have provided a detent having a shank 10 with an enlargement 19 at its lower end, which enlargement is preferably formed in the shape of a T-head, is mounted to swing in a similarly shaped socket 20, preferably formed in the lower portion of the block 16. The upper end of this detent shank is preferably threaded as at 21 and screwed into a head member 22, but any other suitable means for attaching this head 22 to the shank may be provided.

I have also formed a recess or socket 23 in the block 16 for the reception of a spring member 24 which is guided by the walls of said socket and also by those of the slot 17 to engage the front side of the detent shank to press its head into the slot 15 of the lid 12 to retain the lid in closed position.

In some cases it is found of advantage to counterbore the upper face of the lid about its slot as at 25 to retain the enlarged head 22 when swung into position over the same, and it is also found of advantage to bevel the under side of the lid about the slot slightly as at 26 to assist the lid upon engaging the head 22 to press the same outwardly and permit the cover to move to closed position.

By my improved construction of detent and means for mounting the same, it will

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be seen that it is only necessary when the frame and button or block are formed of celluloid, to press into the inner face of the block, the slots 17 and the recesses 20 and 23 to register with a similar slot 14 pressed or cut into the outer face of the frame; then by providing a detent with a T-shaped head 19, it is only necessary to mount the detent and its spring in the block and cement the block in position on to the frame with their slots aligning and the device is complete.

I have shown the block as being recessed at 20 for the reception of the T-head of the detent shank 19 but this enlargement on the pivoted end of the detent shank may be of any desired shape and this enlargement may be mounted in a recess which may be formed in either the block or the frame, the block and frame cooperating to retain the joint or pivoted head in its socket, without departing from the spirit and scope of this invention.

In some instances instead of employing a separate spring to act upon the detent to move it to locked position, as above described, I may form a coil 27 in the shank of the detent, the spring action of which will cause the shank to swing inwardly to locked position and the end 28 of the shank wire may be held in a corresponding hole 29 in its block as shown in Figure 6.

The foregoing description is directed solely towards the construction illustrated, but I desire it to be understood, that I reserve the privilege of resorting to all the mechanical changes to which the device is susceptible, the invention being defined and limited only by the terms of the appended claims.

I claim:

1. A lid-latch for a receptacle, including a frame member, a separate hinge block member fixed to said frame, a socket in one of said members adjacent their junction, a detent having a shank of a size to engage the side walls of said socket mounted to swing therein, a lid engaging head on the free end of said shank, and a spring to swing the head of said shank towards locked position.

2. A lid-latch for a receptacle, including a frame member, a separate hinge block member fixed to said frame, a T-shaped socket in one of said members adjacent their junction, a detent having a shank with a T-head at one end mounted in said socket, a lid engaging head on the free end of said shank, and a spring set in a recess in said block to press the shank head towards locked position.

3. A lid latch for a receptacle, including a frame member, a separate button or block member fixed to said frame, the inner face of said block and the outer face of said frame having registering slots, a detent having a shank with an enlargement at one end socketed in one of said members to swing in said registering slots, a lid engaging head on the free end of said shank, and a spring to press said shank to locked position.

4. A lid-latch for a receptacle, including a frame, a separate hinge block fixed to said frame, the inner face of said block and the outer face of said frame having registering slots, a detent having a shank with an enlargement at one end socketed in said block to swing in said registering slots, a lid engaging head on the free end of said shank, the inner face of said block having a bore communicating with said slots, and a spring in said bore pressing said shank to locked position.

In testimony whereof I affix my signature.

THOMAS G. SADLER.