(No Model.)

W. F. BEASLEY.

BOX FRAME AND COVER.

No. 455,457. Patented July 7, 1891.

Fig. 1.

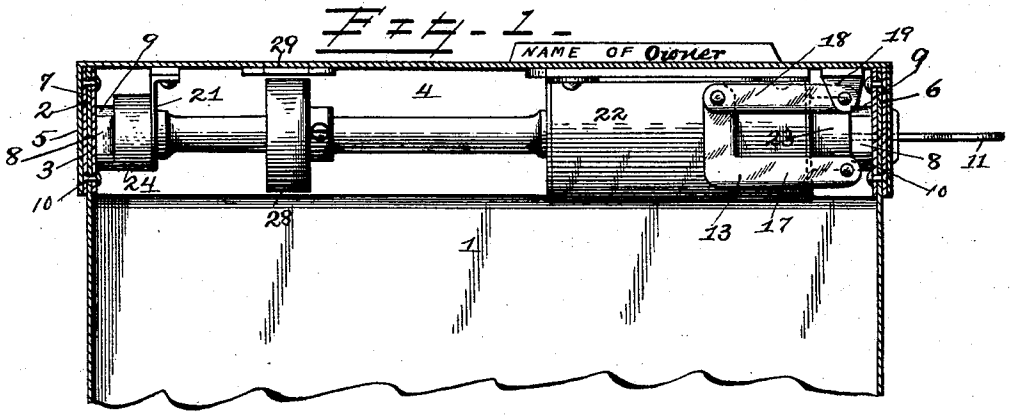


Fig. 2.

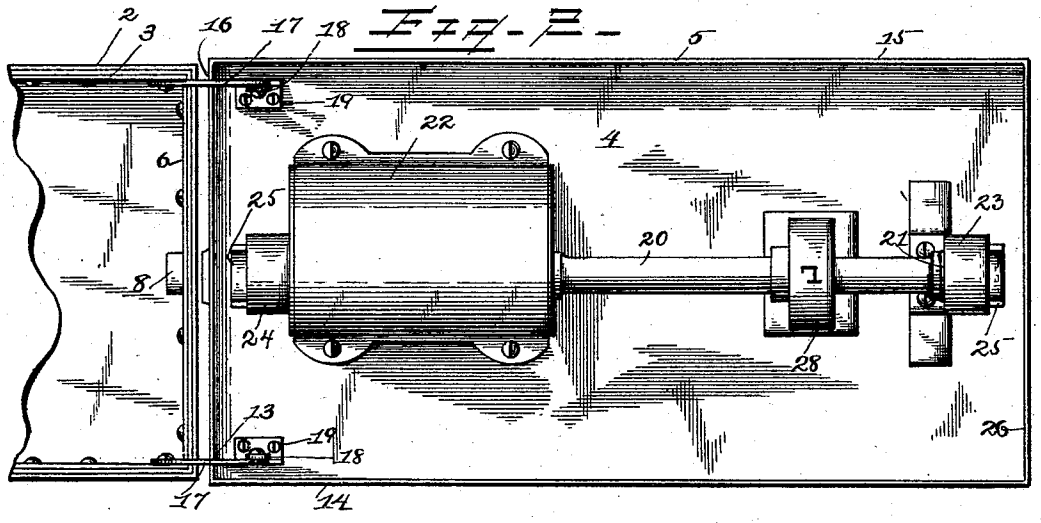


Fig. 3.

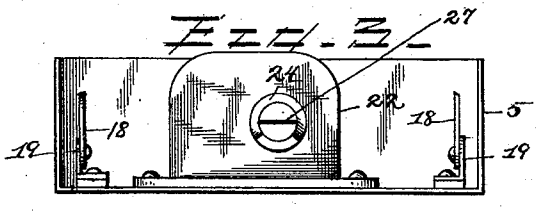
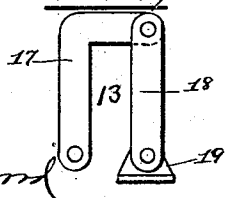


Fig. 4.



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UNITED STATES PATENT OFFICE.

WILLIAM F. BEASLEY, OF BALTIMORE, MARYLAND.

BOX FRAME AND COVER.

SPECIFICATION forming part of Letters Patent No. 455,457, dated July 7, 1891.

Application filed September 22, 1890. Serial No. 365,802. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. BEASLEY, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Bags or Boxes and Locks Therefor; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in bags or boxes and in locks therefor; and it consists in the construction, combination, and arrangement of the several parts of which it is composed, as will be hereinafter more fully described and claimed.

Referring to the accompanying drawings, in which corresponding parts are designated by corresponding letters, Figure 1 is a side view of my invention as applied to a bag, parts thereof being broken away to show the interior thereof. Fig. 2 is a plan view of my invention when opened. Fig. 3 is a detail end view of the locking-barrel and the parts contiguous thereto. Fig. 4 is a detail of the hinge.

The upper edge of the bag 1 (which is preferably of the construction described in another application for Letters Patent, filed by me in the United States Patent Office on the 22d day of September, 1890, and serially numbered 365,803) is secured between the metallic frame-plates 2 and 3, which may have any desired contour, although in the accompanying drawings they are shown as forming a parallelogram for the reception of corresponding cover 4, the flanges 5 of which fit around the outer frame-plate 2, as shown in Fig. 1.

It will be evident that instead of securing a bag to the plates 2 and 3, as shown, a bottom may be secured thereto, forming a box, and that one of the said set of plates 2 or 3 may be dispensed with. The two opposite ends 6 and 7 of the parallelogram formed by the plates 2 and 3 have inwardly-projecting lugs 8 in their centers, the said lugs being secured to the inner faces of the plates 3, forming the said ends, and have arc-shaped tops and bottoms 9 and 10, respectively, one of the said lugs 8 and the corresponding ends being apertured to admit the passage of a key 11.

A lid 4 is hinged to the said frame-plates by means of the hinges 13, secured to the sides 14 and 15 thereof near the end 6, the hinges being connected to the lid near the end 16 thereof, which is apertured, the said aperture being adapted to register with the aperture in the end 6 when the lid is closed.

The hinges 13, in order to permit the lid 4 to be placed upon the frame 2 by a directly downward motion instead the circular or arc-shaped motion usual with hinged covers, are formed in two parts 17 and 18, each of the former parts being in the shape of an elbow having its longer arm pivoted to the sides 14 or 15 near their lower edge and near the end 6, the shorter arm of the said elbow projecting upward and terminating slightly below the under surface of the cover of the box. The latter piece or link 18 is of the same length as the longer arm of the elbow, and has its opposite ends pivoted to the end of the shorter arm of the said elbow and to the pendent post 19 upon the lower surface of the cover near its end 16. By this construction the lid when removed will move vertically upward until above the level of the upper surface of the frame-plate 2 and 3, and it will then fall backward in the arc of the circle until it is horizontal, the longer arm of the elbow and the piece 18 at the same time assuming a vertical position, and being connected by the shorter arm of the elbow which will be horizontal, while upon closing the cover the operation will be reversed. I do not, however, desire to limit myself to the above-described form of hinge, for it will be evident that some other form of hinges may be employed or that all hinges may be dispensed with altogether without in any manner affecting the operation of the lock to be hereinafter more fully described.

I prefer to use the described hinge only because of the advantages it affords in permitting the use of deep flanges upon the lid and in holding the lid and bag together and preventing their loss or displacement.

A barrel or shaft 20 is supported upon the under surface of the lid by a pendent support or hanger 21 at one end and by means of the casing 22 at the other, the ends of the said shaft having collars 23 and 24 thereon, the said collars having arc-shaped flanges 25 upon the corresponding sides of their outer ends,

the said shaft running from near the inner surface of the end 16 of the cover to near the inner surface of the opposite end 26 thereof, that end of the shaft 20 which is near the end 16 of the cover having a slot 27 therein to receive the end of the key, the said barrel being opposite and in alignment with the aperture in the end 16. A disk 28 is mounted upon the shaft 20 beneath the glass-covered perforations 29 in the top of the cover, the said disk having on its periphery a suitable symbol or sign properly located to show whether or not the said barrel is in a position to lock the cover in place. In the drawings, I have represented such a symbol by the letter L placed upon the disk on the side of the shaft opposite the flanges 25, so that when the said flanges are by the rotation of the barrel 20 at the lowest portion of the path locking the cover the letter L will be visible through the perforation 29, thus indicating that the cover is locked.

It will be evident that if it is desired to lock the lid in place it will be necessary (the said lid being first placed over the frame-plates and forced down) to insert the key through the apertures in the end 16 of the cover and the end 6 of the frame, which, as has been stated, register, the end of the key entering the slot 27 in the barrel 20, where it will regulate the position of the locking dogs or pins, as is well known and is in common use in the so-called "Yale lock," and which, therefore, needs no further description or illustration herein. The barrel, being thus unlocked for rotation, may be turned by means of the key, causing the annular flanges 25 upon the ends thereof to slide from their position upon the upper surface of the lugs 8 to below the surfaces 10 thereof, thus preventing an upward movement of the cover without first rotating the barrel back in its first position, which may be done by inserting and turning the key, as will be evident. It will be also seen that when the annular flanges are by rotation of the barrel carried under the lugs 8 the letter "L" will be exposed through the perforation 29, showing that the barrel is locked.

Within the casing 22 I also place a registering mechanism such as that described in Letters Patent No. 220,124, granted September 30, 1879, to Henry Clark, and such a register therefore need not be further described herein, the indicated disks thereof showing through a suitably-protected perforation in the said cover, the disks being adapted to register each revolution of the barrel. It will be also noticed that the key-apertures in the ends 6 and 14 are closed, when the cover is on, by the end of the barrel 20, thus preventing the abstraction of the contents of the bag or box through the said opening. It will also be noticed that if a bag constructed as above be used for transporting valuables the bag may be wrapped around the top after the contents have been removed, thus protecting the top from injury while being returned, the bag having the name of the owner or consignee printed or written on a suitable exposed part thereof.

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

1. The combination, with the mouth-frame of a bag or other vessel of capacity, of lugs upon the inner surface of two opposite sides thereof, a cover adapted to fit over the said frame, and a revolving barrel having arc-shaped shoulders upon its opposite ends depending from the cover and engaging the lugs on the frame, as described.

2. The combination, with the mouth-frame of a bag or other vessel of capacity having a lug upon one of its sides, of a cover adapted to fit over the said frame, a revolving barrel having an arc-shaped shoulder upon one of its ends depending from the said cover and engaging the lug upon the frame, and a visual signal actuated by the said barrel and adapted to show the position thereof.

3. The combination, with the mouth-frame of a bag or other vessel of capacity, of lugs upon the inner surface of two opposite sides thereof, one of the said lugs and sides being apertured to admit the passage of a key, a cover adapted to fit over the said frame, and a revolving barrel depending from the lower surface of the said cover, the said barrel having arc-shaped shoulders on its opposite ends, one end of the said barrel being in alignment with an aperture in the end of the said cover, as described.

4. The combination, with the mouth-frame of a bag or other vessel of capacity, of lugs upon the inner surface of two opposite sides thereof, a cover adapted to fit over the said frame, a revolving barrel having arc-shaped shoulders upon its opposite ends depending from the lower surface of the said cover and engaging the lugs on the frame, and a disk mounted upon the said barrel under a perforation of the said cover, the said disk having a visual signal thereon, as described.

5. The combination, with the mouth-frame of a bag or other vessel of capacity, of lugs upon the inner surfaces of two opposite sides thereof, one of the said lugs and sides being apertured to admit the passage of a key, a cover adapted to fit over the said frame, a revolving barrel having arc-shaped shoulders upon its opposite ends depending from the lower surface of the said cover and engaging the lugs on the frame, one end of the said barrel being in alignment with an aperture in the end of the said cover, and a disk mounted upon the said barrel under a perforation in the said cover, the said disk having a visual signal thereon, as described.

6. The combination, with the mouth-frame of a bag or other vessel of capacity, of lugs on the inner surfaces on two opposite sides thereof, one of the said lugs and sides being apertured to admit the passage of a key, a

cover adapted to fit over the said frame, hinges connecting the said frame and cover, each of the said hinges consisting of an elbow having its one end pivoted to the said frame and of a link pivoted to the said cover and to the free end of the said elbow, a revolving barrel having arc-shaped shoulders upon its opposite ends depending from the lower surface of the said cover and engaging the lugs on the frame, one end of the said barrel being in alignment with an aperture in the end of the said cover, and a disk mounted upon the said barrel under a perforation in the said cover, the said disk having a visual signal thereon, as described.

7. The combination, with the mouth-frame of a bag or other vessel of capacity, of lugs on the inner surfaces of two opposite sides thereof, one of the said lugs and sides being apertured to admit the passage of a key, a cover adapted to fit over the said frame, hinges connecting the said frame and cover, each of the said hinges consisting of an elbow having its one end pivoted to the said frame and of a link pivoted to the said cover and to the free end of the said elbow, a revolving barrel having arc-shaped shoulders upon its opposite ends depending from the lower surface of the said cover and engaging the lugs on the frame, one end of the said barrel being in alignment with an aperture in the end of the said cover, a disk mounted upon the said barrel under a perforation in the said cover, the said disk having a visual signal thereon, and a register actuated by the said barrel, as described.

8. The combination, with the mouth-frame of a bag or other vessel of capacity having lugs upon the inner surfaces of opposite sides thereof, of a cover adapted to fit over the said frame, a revolving barrel having arc-shaped flanges upon its ends depending from the said cover and constructed to engage the lugs on the frame, and a register actuated by a rotation of the said barrel, as described.

9. The combination, with the mouth-frame of a bag or other vessel of capacity, of lugs upon the inner surface of the opposite sides thereof, a cover adapted to fit over the said frame, a revolving barrel having arc-shaped flanges upon its opposite ends depending from the lower surface of the said cover and engaging the lugs on the frame, a disk upon the said barrel below a perforation of the said cover, and a register actuated by the movement of the said barrel, as described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM F. BEASLEY.

Witnesses:
V. M. DORSEY,
ZADIE GIBSON.