(No Model.)

A. HADLEY.

PAPER HOLDER.

No. 346,154. Patented July 27, 1886.

Fig. 1.

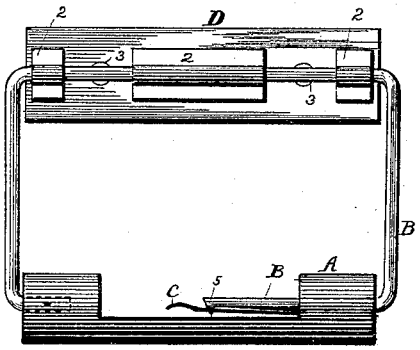


Fig. 2.

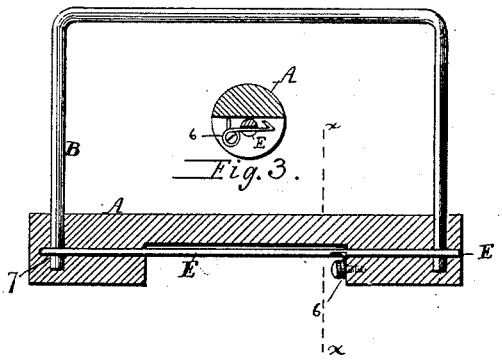


Fig. 3.

Fig. 4.

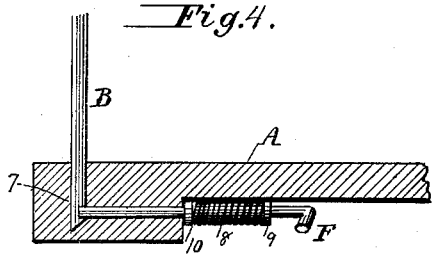


Fig. 5.

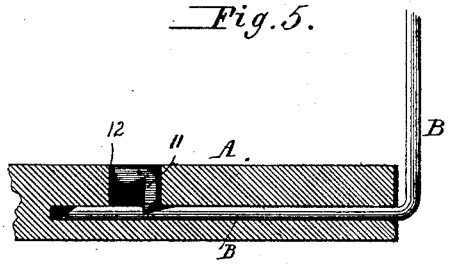


Fig 6

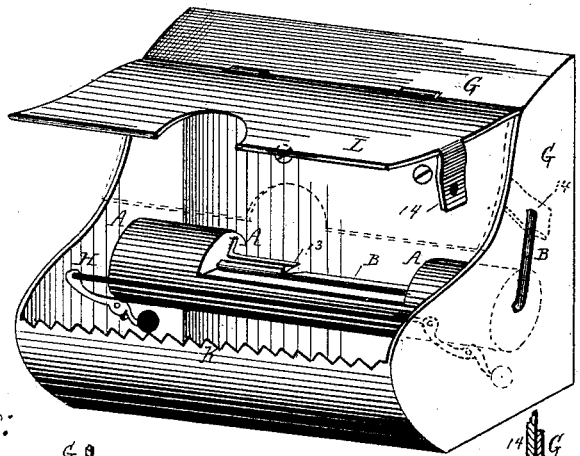
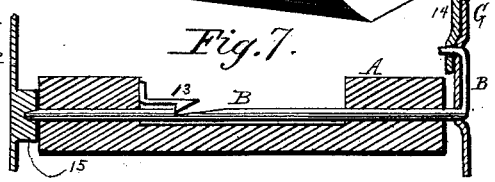


Fig. 7.



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PAPER-HOLDER.

SPECIFICATION forming part of Letters Patent No. 346,154, dated July 27, 1886.

Application filed November 19, 1885. Serial No. 183,326. (No model.)

To all whom it may concern:

Be it known that I, AMOS HADLEY, a citizen of the United States, and a resident of Washington, in the District of Columbia, have invented a new and useful Improvement in Paper-Holders, of which the following is a specification.

My invention relates to holders for securing a roll of paper for toilet purposes to a wall or other support to prevent the same from being taken away; and the object of my invention is to so improve upon the construction of such a holder that it will be impossible either to remove the paper from the holder or to detach the whole apparatus from the wall until all the paper is unwound from the roll. Holders of a similar character are now in use, but they are not provided with means for guarding against the detachment of the fixture from the wall, and the means adopted for preventing the removal of the roll from the core is unreliable.

My invention consists in providing the core-piece with a locking device for securing the supporting pin or link in the core, such locking device being so located that when the paper is placed upon the core-piece the parts used for disengaging the locking device will be entirely within the roll and inaccessible from the outside.

It further consists in so constructing the suspending pin or link that when the device is in position for use one arm of the link will lie over the screw-holes in the wall-plate, and so render them safe from outside interference until the link can be detached from the core.

In the accompanying drawings, in which like letters and figures indicate like parts, Figure 1 is a front elevation of the preferred form of holder constructed according to my invention. Figs. 2, 4, and 5 are sectional views showing modified forms, and Fig. 3 is a cross-section of Fig. 2 on the line *x x*. Fig. 6 is a perspective view of a cabinet form of holder to which my invention is also applied, and Fig. 7 is a detailed sectional view showing the manner in which the lid of the cabinet is locked in place by the pin which suspends the core and roll within the cabinet.

The form shown in Figs. 2, 3, and 4 illustrates the manner in which my invention may be applied to a well-known form of holder now in common use.

As now used this holder consists of a core-piece, A, provided with transverse perforations into which the arms of the suspending-link B may be inserted, and having also a longitudinal bore, into which the pin or wire E may be inserted for the purpose of locking the link B to the core by engaging with notches 7, near the ends of the suspending-links B.

In using this holder it has been found that mischievous persons have easily removed the roll of paper from the holder by striking a sharp blow on the end of the core-piece, which will generally cause the pin E to spring far enough out to be grasped by the fingers and entirely withdrawn, thus releasing the suspending-link and making the theft of the paper an easy matter.

In hotels, large manufacturing-establishments, and public buildings much loss and annoyance are caused by the imperfect form of the paper-holders in use, and it is the purpose of this invention to provide a holder which will prevent such loss and annoyance.

The defect in the common form of roller may be remedied either by notching the pin E, as shown in Fig. 3, or placing a small spring in a recess in the core-piece, so as to engage with said notch when the pin is forced into place, or, as in Fig. 4, by beveling and notching the ends of the suspending-link, and providing a bolt working from the recess through a longitudinal bore and intersecting the perforations into which the link B is inserted. This bolt is encircled by a coiled spring, S, bearing at one end against the lug 9, secured to the core, and at the opposite end against the collar or cross-pin on the bolt. The bolt F is also beveled on its end in a direction contrary to the bevel on the link B, so that when the link is forced into place the bolt will first be sprung aside and then engage with the notches 7 and securely fasten the link to the core.

In the form shown in Fig. 1, which is the preferred construction, the core-piece is without transverse perforations, and is provided

only with a longitudinal bore. The suspending-link B is formed in two bracket-shaped parts, [ ], the upper arms of which pass through lugs 2 on the wall-plate D, and the lower arms enter the longitudinal bore in the core-piece. One of these links may be permanently secured in the core-piece by riveting, or in any other suitable manner, while the other can be detached, and is provided with a notch or projection, 5, which automatically engages with a slot in a flat spring, C, secured in a recess in the core-piece A, near the middle of the same. The wall-plate D is provided with screw-holes 3, for fastening the plate to the wall, which are located in the same line with the perforated lugs 2, so that when the roll is placed upon the core-piece and the suspending-links are locked in place their upper arms will rest over the screw-holes and prevent the detachment of the plate from the wall.

In Fig. 5 a gravity-pawl is shown as a substitute for the spring C, the other parts of the fixture being the same as in Fig. 1.

In Figs. 6 and 7 the roll is to be placed inside of the cabinet G on the core-piece A, said core-piece being pinned into the cabinet and suspended upon the link or pin B, which passes through one end of the cabinet and enters a boss on the inside of the opposite end. This pin is notched, as shown, and engages with a spring-catch, 13, in a recess in the core-piece, and one end may be bent up, as shown in Fig. 7, so as to enter a second perforation in the end of the cabinet and engage with a depending strap on the lid L, thus securely locking the cabinet and covering the fastening-screws, which pass through the back of the cabinet behind the roll. The cabinet is also provided with a cutting-edge, K, for severing the paper, and with a counterbalance-bar, H, extending across the cabinet in front of the roll of paper, to prevent the paper from falling between the roll and the cutting-edge, where it would be inconvenient to reach.

It will be noticed that in none of the forms shown can the roll be removed from the core-piece until the spring which locks the parts together can be reached, and this cannot be done until the middle of the core-piece is uncovered by entirely unwinding the paper from the same. Neither can the wall-plate be detached from the wall until the screws are uncovered by the removal of the links B from their places in the wall-plate and in the core-piece A.

The form shown in Figs. 2 and 4 may also be adapted to cover the screw-holes by simply dividing the suspending-link at its middle point.

What I claim as new and of my invention is—

1. In a paper-holder, the combination of a core-piece, a suspending-link, the arms of which are notched and enter the core through the perforations therein, and a locking device engaging with said notches, and so located that when the paper-roll is placed on the core the parts by which the locking device is disengaged will be wholly within the roll and inaccessible from the outside, substantially as set forth.

2. In a paper-holder, the combination of a core-piece, a suspending-link, the arms of which are notched and enter the core through the perforations therein, and means for automatically locking said arms in the core, so located that when the paper-roll is placed on the core the parts by which the locking device is disengaged are wholly within the roll and inaccessible from the outside, substantially as set forth.

3. In a paper-holder, the combination of an attaching-plate having suitable perforated lugs, a core-piece bored longitudinally, suspending-links formed in two bracket-shaped ([ ]) parts, (one arm of each of which passes through the perforated lugs and the other enters the core,) and a lock for retaining the parts in place, so located that when the paper-roll is placed on the core the parts used for disengaging the locking device will be entirely within the roll and inaccessible from the outside, substantially as set forth.

4. In a paper-holder, the combination of an attaching-plate having suitable perforated lugs, and screw-holes for securing the plate to a support, said lugs and screw-holes being in the same straight line, a core-piece having suitable perforations, suspending-links having one arm notched and entering the core-piece, the other being bent at right angles to pass through the perforated lugs and lie over the screw-holes, and a locking device for securing said suspending-links in the core, so located that when the paper-roll is placed on the core the parts by which the locking device is disengaged are wholly within the core and inaccessible from the outside, substantially as set forth.

5. In a paper-holder, the combination of an attaching-plate having perforated lugs, and screw-holes lying in the same straight line, a core-piece longitudinally bored, suspending-links formed of two bracket-shaped ([ ]) parts, the upper arms of which pass through the perforated lugs and lie over the screw-holes, and the lower arms of which enter the ends of the core-piece, one of them being permanently secured therein, and a flat spring located in a notch intersecting the bore of the core-piece and engaging with a notch in the movable arm of the suspending-link, for locking the parts in position, so that when the paper-roll is placed on the core the locking-spring will be entirely within the roll and inaccessible from the outside, substantially as set forth.

6. In a paper-holder, the combination of a core-piece provided with an automatic locking device so located that when the paper-roll is placed on the core the parts by which the lock is disengaged will be entirely within and inaccessible from the outside, a suspend-

ing-pin engaged by said locking device to secure it in the core, a wall-plate provided with screw-holes for securing the holder to the wall, and means for covering said screw-holes, secured over the same by the suspending-pin, so that when the parts are locked in place for use the screws which hold the wall-plate to the wall cannot be removed, substantially as set forth.

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