C. F. WILSON & J. H. HARMAN.

LOCK FOR UMBRELLA HOLDERS.

APPLICATION FILED MAR. 29, 1910.

960,131. Patented May 31, 1910.

Fig. 1.

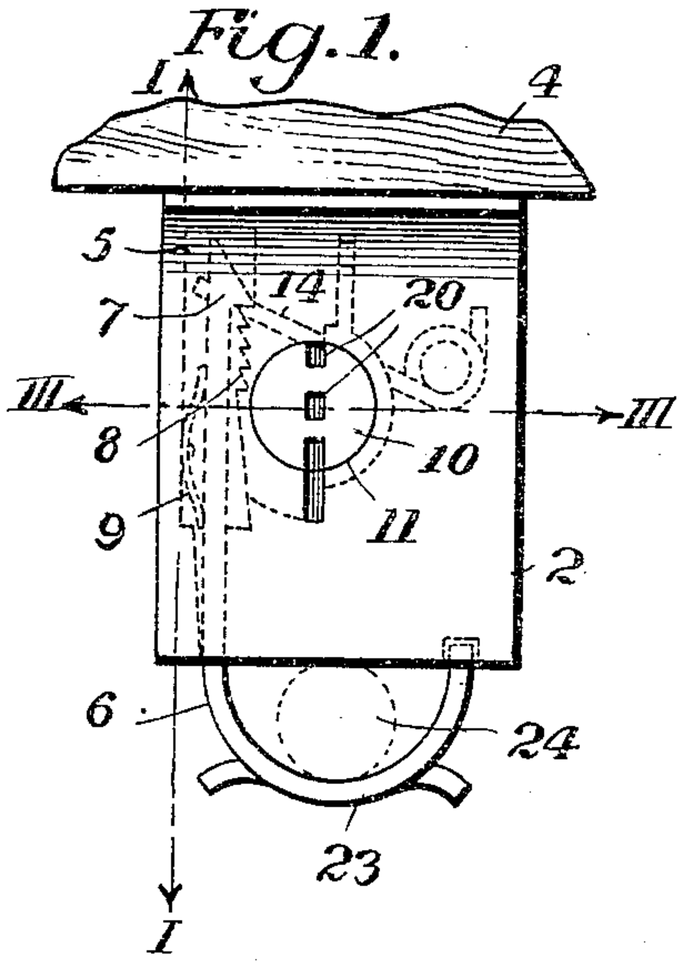


Fig. 2.

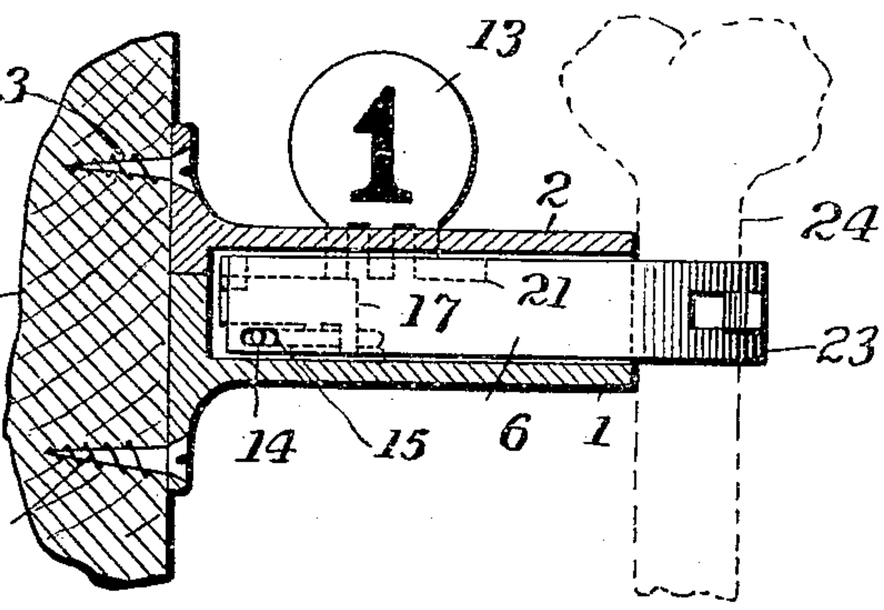


Fig. 3.

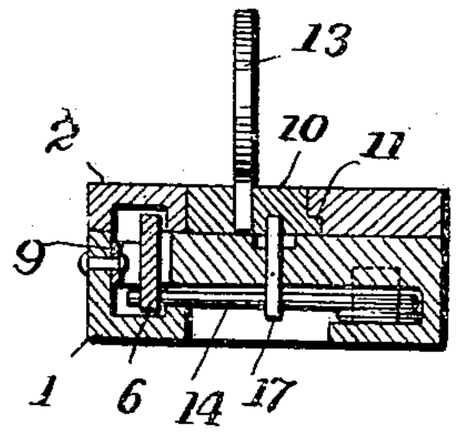


Fig. 4.

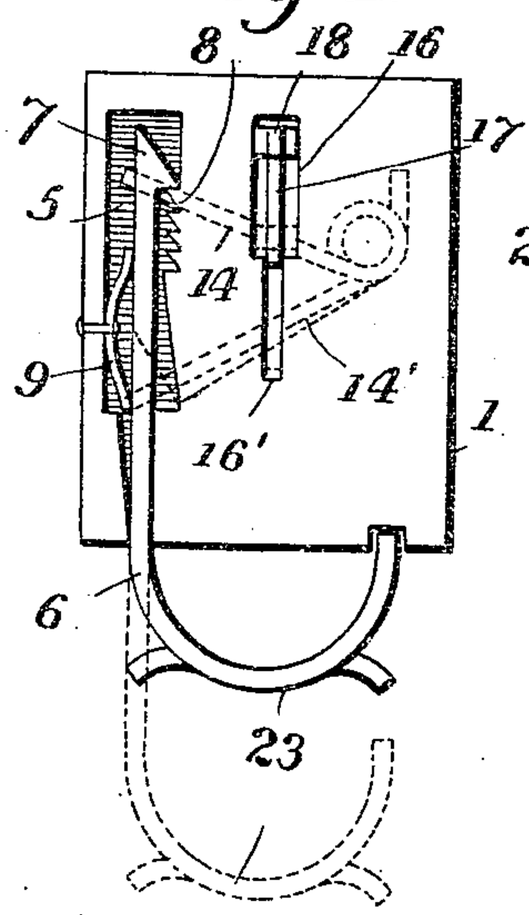


Fig. 5.

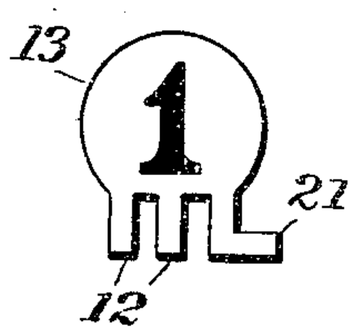


Fig. 6.

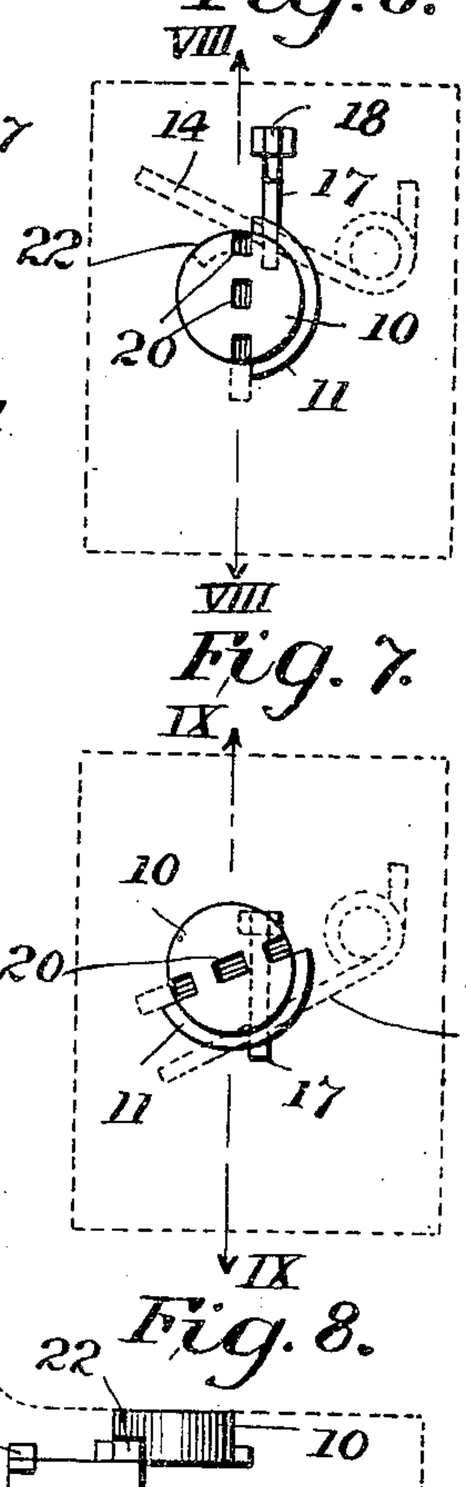


Fig. 7.

Fig. 8.

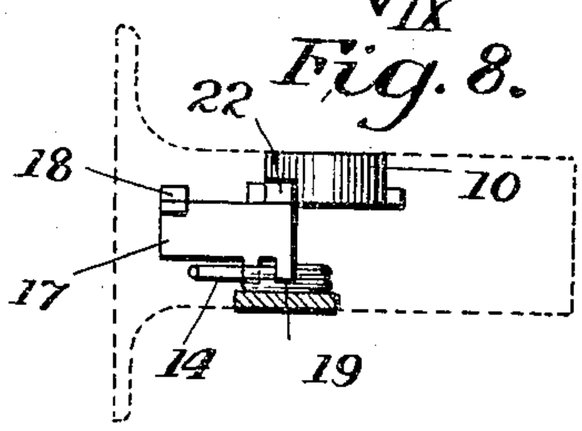
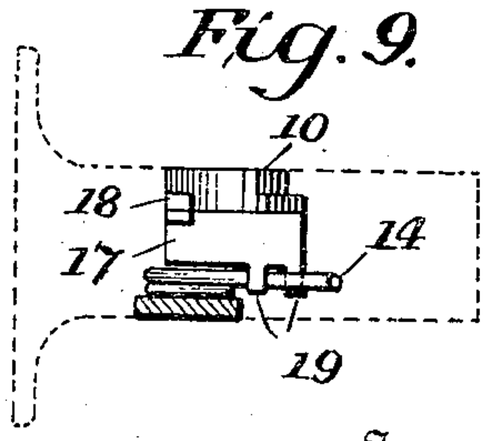


Fig. 9.



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UNITED STATES PATENT OFFICE.

CLARENCE F. WILSON AND JOHN H. HARMAN, OF UNIONTOWN, PENNSYLVANIA.

LOCK FOR UMBRELLA-HOLDERS.

960,131. Specification of Letters Patent. Patented May 31, 1910.

Application filed March 29, 1910. Serial No. 552,194.

To all whom it may concern:

Be it known that we, CLARENCE F. WILSON and JOHN H. HARMAN, citizens of the United States, residing at 201 Morgantown street, Uniontown, in the county of Fayette and State of Pennsylvania, have invented certain new and useful Improvements in Locks for Umbrella-Holders, of which the following is a specification.

Our invention relates to means for locking umbrellas or the like, to stands or holders, for the same.

This invention is primarily designed to provide a holder or support for umbrellas, canes, or parasols which will prevent their appropriation by strangers and unauthorized persons, the holder being of peculiar formation and embodying a lock of novel construction for securing the umbrella or cane when placed in position.

The invention contemplates a lock mechanism of unique construction and arrangement and an independent and coöperating key for the check, the parts having a mutual interdependence, so that when the locking device is in position to hold the umbrella or cane, the key or check can be removed and retained by the depositor of the umbrella and when the lock mechanism is open and adapted to receive the umbrella the key or check is retained by the holder and is immovable therefrom.

For a full description and merits of the invention, and also to acquire a knowledge of the details of construction of the means for effecting the result, reference is to be had to the following description and accompanying drawings, and consists of structural features and arrangements which will be hereinafter particularly pointed out in the appended claims.

Referring to the drawings in which similar reference characters indicate the same parts in the several figures; Figure 1 is a plan view of the holder in its locked position and holding an umbrella; Fig. 2 is a section on line I—I of Fig. 1; Fig. 3 is a section on line III—III of Fig. 1; Fig. 4 is a plan view of the holder with the cover removed, and the locking bolt in its unlocking position shown in dotted lines; Fig. 5 is a view of the key or check and with the holder; Fig. 6 is a plan view of the key holder and lock therefor in the position assumed when the key can be removed from the holder; Fig. 7 is a similar view as Fig. 6 showing the position assumed by key holder and lock when the key is immovable from the holder; Fig. 8 is a section on line VIII—VIII of Fig. 6; and Fig. 9 is a section on line IX—IX of Fig. 7.

The device comprises a suitable casing or holder body 1 which is provided with the usual cover and may be securely fastened by means of screws 3 or otherwise, to a wall or wooden frame work 4, so that the umbrella will assume a vertical position when locked and its lower end rest on the floor or other satisfactory support, not shown, and which forms no essential part of our invention. Within a groove or channel 5, at one side of the casing 1 is adapted to slide back and forth an extension of a locking hasp 6, which is provided at its end with a saw tooth 7, or equivalent means which is adapted to engage the teeth 8 formed on the inner side of the channel 5, said locking hasp 6 and tooth end 7, being forced toward the inner side of and made to engage the teeth 8 by a leaf spring 9.

10 is a circular key plate rotatably held within the casing by the semi-circular lug 11 engaging a corresponding recess in the cover 2 and is provided on its outer surface with sockets 20, 20, variously spaced and proportioned to receive the correspondingly arranged lugs 12 (see Fig. 5), of the different keys 13, used with a set of umbrella holders, said keys having extension 21, for purposes to be hereinafter explained. Said circular rotary plate 10 is also provided on the edge of its under side with a notch or recess 22, (see Figs. 6 and 7).

Supported within a V-shaped pocket in the casing is a coiled spring 14, one end of which reacts against the casing 1, while its other end is adapted to pass through an opening 15 (see Fig. 2), near the lower edge and innermost end of the hasp 6, and said spring is adapted to normally assume the position shown by 14′ in Fig. 4 and force said hasp, as shown in dotted lines, outwardly from the casing for the purposes to be hereinafter explained.

16, is a second channel in the casing 1, with a contracted portion 16′ and is adapted to receive a sliding bolt 17, having an upper lug 18, to be seated in notch 22 of plate 10, and two lower and slightly separated lugs 19, 19, which are adapted to engage the spring 14, as shown in Figs. 8 and 9.

The operation of our invention is as fol-

lows: Assuming the hasp 6 to be open or in its outer position, as shown in dotted lines in Fig. 4, and it is desirous to secure or lock an umbrella or cane, one places the umbrella stick 24, in position as shown by dotted lines in Figs. 1 and 2, and presses the locking hasp 6 inwardly, when its inner or tooth end 7 will ride over and be pressed against the teeth 8 by spring 9. After the outer curved section 23 of the hasp 6 has snugly and firmly surrounded the umbrella stick, the same is securely locked to the holder, for the reason that the tooth end 7 has engaged a tooth of the series 8, and the hasp cannot be removed. During this locking movement of the hasp 6, the coil spring end is carried from position 14′ to 14, (see Fig. 4), which spring at the same time carries by means of the engaging lugs 19, 19, the sliding bolt 17, so that its upper lug 18, is disengaged from the notch or recess 22, of rotary key plate 10, thereby unlocking the same and permitting it to be readily rotated by the key 13, into the position as shown in Figs. 1, 6, and 8, when said key can be removed and retained as a check to reclaim the umbrella when desired. When desirous of releasing the umbrella, one places the proper key 13, into the registering key plate 10, as shown in Fig. 2, and turns the same from right to left, into the position shown in Fig. 7, when the extension 21, of the key pushes outwardly the inner end of the hasp 6, against the action of the spring 9, when the tooth end 7 is disengaged from its hold on teeth 8 and the hasp 6 is thrust out of the fixed casing 1, by the spring 14, as shown in Fig. 4, permitting the removal of the umbrella, and the spring 14 assumes the dotted position 14′. The spring 14 in passing to this last position, 14′, drags with it the sliding bolt 17, and causes the lug 18, to engage the recess 22, of the key plate 10, and thereby preventing the plate from being turned and hence the removal of the key, until it is again desired to lock an umbrella when the above stated operations may be repeated.

Having now fully described our invention, what we claim and desire to secure by Letters Patent is as follows:

1. A lock for umbrella holders and the like, comprising a casing, a series of catches or teeth in said casing, a hasp having one end sliding in said casing and adapted to be engaged by said catches or teeth and its outer end capable of gripping an umbrella or the like, a key plate rotatably supported in said casing, a spring reacting against the inner end of the hasp and normally tending to thrust the same from the casing, and means connected to said spring for locking the key plate when said hasp is thrust from the casing.

2. A lock for umbrella holders and the like, comprising a casing, a series of teeth or catches in said casing, a hasp having one end sliding in said casing and adapted to be engaged by said catches and released therefrom by a key, and its outer end capable of gripping an umbrella or the like, a key plate rotatably supported in said casing, a spring reacting against the inner end of the hasp and normally tending to thrust the same from the casing, a sliding bolt engaging the spring and operated thereby for locking the key plate after the key has released the hasp and thrust the same from the casing by said spring.

3. A lock for umbrella holders and the like, comprising a casing, a series of catches or teeth in said casing, a hasp having one end sliding in said casing and adapted to be engaged by said catches or teeth and its outer end capable of gripping an umbrella or the like, a key plate adapted to receive a key to release the hasp from the catches or teeth, and rotatably supported in said casing, a spring reacting against the inner end of the hasp and normally tending to thrust the same from the casing, and means connected to said spring for locking the key plate and retaining the key in the holder when said hasp is thrust from the casing.

4. A lock for umbrella holders and the like, comprising a casing, a series of fixed teeth in said casing, a hasp having one end sliding in said casing and adapted to engage one of the teeth and released therefrom by a key, and its outer curved end capable of gripping an umbrella or the like between said curved end and casing, a key plate rotatably supported in said casing and provided with suitable key recesses, a coil spring reacting against the inner end of the hasp and normally tending to thrust the same from the casing, a sliding bolt engaging the spring and operated thereby for locking the key plate after the key has released the hasp and thrust the same from the casing by said spring.

5. A lock for umbrella holders and the like, comprising a casing, a hasp having one end adapted to slide in and be locked to said casing, and the outer end capable of gripping an umbrella stick, key operated means releasing said hasp from its locked position, and means for preventing the operation of the key operating means and withdrawal of the key from the holder when said hasp is in its unlocked or withdrawn position.

In testimony whereof we affix our signatures in presence of two witnesses.

CLARENCE F. WILSON.
JOHN H. HARMAN.

Witnesses:
LEE SMITH,
GEO. W. SEMANS.