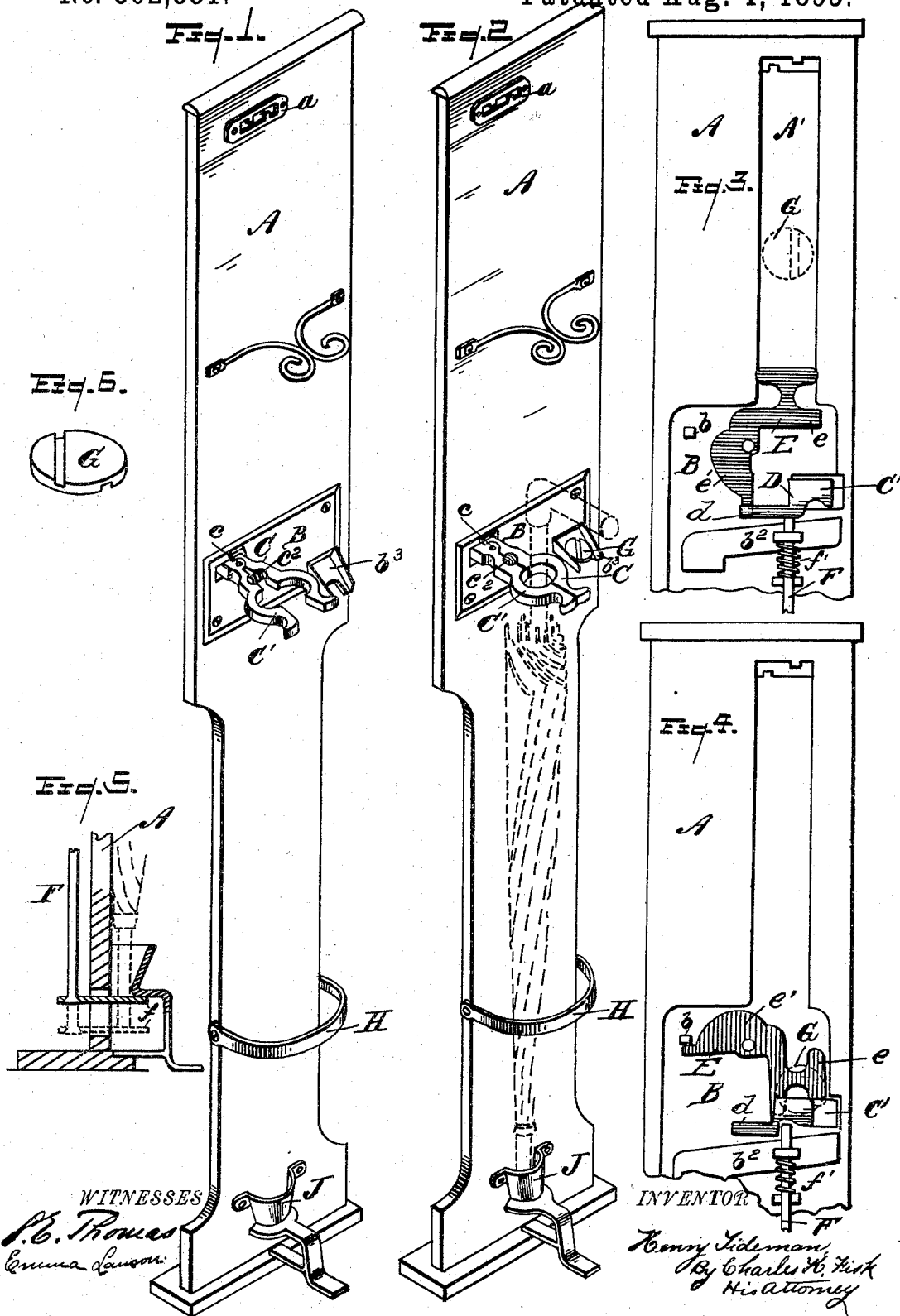


(No Model.)

H. TIDEMAN.
UMBRELLA STAND.

No. 502,331.

Patented Aug. 1, 1893.



UNITED STATES PATENT OFFICE.

HENRY TIDEMAN, OF DETROIT, MICHIGAN.

UMBRELLA-STAND.

SPECIFICATION forming part of Letters Patent No. 502,331, dated August 1, 1893.

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To all whom it may concern:

Be it known that I, HENRY TIDEMAN, a citizen of the United States, residing at Detroit, county of Wayne, and State of Michigan, have invented a new and useful Improvement in Umbrella-Stands; and I 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 pertains to make and use the same, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to umbrellastands, and its object is to provide improved means for retaining the umbrella, and consists in the use of pivoted jaws adapted to embrace the handle of the umbrella when closed, together with a suitable locking device adapted to be unlocked by the insertion of a check. My device is also designed to retain the check within the device when the jaws are unlocked; and is also provided with means whereby the jaws when open are locked in that position, and cannot be closed until an umbrella or cane is placed in the rack. The normal condition of my device is with the jaws locked open and incapable of being closed, and provision is made for unlocking them by the insertion of an umbrella.

In the drawings: Figure 1, is a perspective view representing a single stand, with the metal work supported on a simple frame or rack. Fig. 2, is a similar view showing the umbrella in position, and the device locked. Fig. 3, is a rear view showing position of parts when locked. Fig. 4, shows position of the check when the device is unlocked. Fig. 5, shows the mechanism at base to receive the thrust of the umbrella. Fig. 6, shows the form of the check.

In the several figures, A is the wood-work supporting my device.

B is the metal plate forming the frame for supporting the mechanism, and is suitably set into the wood-work.

C, is a stationary jaw riveted to the plate B. C' is the movable jaw pivoted at c, to the stationary jaw C, and provided back of the plate B, with a right-angle extension D, having the portion d set below the plane of the

jaw. This rear portion is so arranged that the outer end of the portion d, strikes against the back of the plate B, when the jaw is open.

Pivoted to the back of the plate B, is the lever E, having the horizontal portion e, and the vertical portion e'. The portion e' when suitably moved lies between the portion d, of the rear extension of the movable jaw and the plate B, thereby locking the jaw in the closed position.

For locking the jaw in the open position I provide the vertical rod F, adapted to move upward and alongside of the depending portion d, of the movable jaw, when the jaw is closed. This rod F, extends down back to the wood-work A, and is provided with the foot f, extending forward through the frame into position to receive the thrust of the umbrella when it is placed in the rack.

I provide the spring f', adapted to raise the rod F, but not of sufficient strength to sustain both the rod and the umbrella. By this means provision is made whereby the weight of the umbrella will carry down the rod F, and unlock the movable jaw from its open position and permit it to be closed. The lever E has its vertical portion e' so weighted as to cause this portion to swing in between the portion d and the plate B, for locking the jaw closed.

For unlocking the jaws when closed over an umbrella, I employ the check G, which I enter through the plate a. The wood-work A is provided in the back with a channel in any suitable manner, preferably by rabbeting out a groove in the wood and covering it with tin, thus forming a chute A', for the check. This chute or channel leads downward, and is closed at the bottom by the horizontal portion e, of the lever E. By this arrangement the check, when passed through the plate a, drops through the channel onto the horizontal portion of this lever and throws it downward, and the vertical portion e', outward and against the pin b. This forces the portion e' from its position as a lock to the movable jaw, and permits the jaw to be thrown open. I arrange for throwing this jaw open automatically, when released, by the spring c², between the jaws. As the action of the spring in throw-

ing the jaw open, follows immediately after the movement of the lever E, the rear extension D of the movable jaw is swung into such a position as to retain the check, and prevents it from dropping farther down. At the time that the movable jaw opens by the force of this spring c^2 , the rod F moves upward, and locks it in the open position, and in a position to retain the check within the stand. The check, when in the device, holds the lever E out of its normal position. If an umbrella be placed in the rack it draws the rod F downward, when the movable jaw can be closed. When it closes it releases the check, which drops downward and into a channel b^2 , in the back of the plate B, through which it rolls and finds exit to the front through the opening b^3 .

I have shown and described a single stand, but my design is to furnish the stands with any number of separate umbrella holders as desired, and for churches, theaters, and other public places the metal work may be set into the wall, if desired.

The wood-work for the stand can be made in any form, and any suitable means can be employed for holding the umbrella below the jaws.

In the drawings I show a simple form employing a metal band H, midway of the umbrella and the drip cup J, to receive and guide the end of the umbrella on the foot f . The drip pan can be used with this cup in any suitable manner, either below the base of the stand or above and in front of the stand proper.

To prevent the use of false checks, by which the umbrella might be removed, I make the checks used with the device corrugated or grooved in different patterns; so that a check of any but the exact form of the opening in the plate a , cannot be used to unlock the device. In racks having two or more separate stands I employ different patterns for the different checks, each being numbered to correspond with a number on the rack.

I am not aware that an umbrella holding device has ever been made provided with means whereby the jaws are locked open and can only be closed when an umbrella is inserted, and I would have it understood that my invention includes the combination of means for unlocking the jaws when open, with a locking device for locking the jaws closed, whether the said last named locking device be operated by a weighted check as shown herein, or operated by a key.

I am aware that umbrella stands have been made adapted to be locked with a key, but I am not aware that they have ever been constructed in such manner as to retain a check

within the device, and expel it when the device is locked over an umbrella.

What I claim is—

1. In an umbrella holding device, jaws for retaining the umbrella, means for locking the jaws in their open position adapted to be unlocked by the insertion of an umbrella, substantially as set forth. 65

2. In an umbrella holding device, jaws for retaining the umbrella, means for locking the jaws in their open position adapted to be unlocked by the insertion of an umbrella, and a spring to automatically open the retaining jaws, substantially as set forth. 75

3. In an umbrella holding device, jaws for retaining the umbrella, means for locking said jaws in closed position adapted to be opened by a check key, and means for retaining the check while the holding device is open and expelling the same on closing it, said means for retaining and expelling the check being connected to and operated directly by an umbrella retaining jaw, substantially as set forth. 80

4. In an umbrella holding device, the combination of a holding jaw, means adapted to engage with said jaw and hold the same closed, said means being adapted to be forced out of engagement by a key, and means for automatically locking said jaw in its open position adapted to be disengaged by the insertion of an umbrella, substantially as set forth. 85

5. In an umbrella holding device, the combination of pivoted jaws, one of said jaws having a rear extension, the lever E having an arm adapted to lock a pivoted jaw in closed position and an arm extending at such time across the check chute in the path of a check to support the same, and said chute to conduct the check to said arm, substantially as set forth. 90

6. In an umbrella holding device, the combination of a pivoted umbrella-retaining jaw having a rear extension and the rod F adapted to be moved by an umbrella placed in said holder, said rod when moved by the umbrella being adapted to lock said pivoted jaw in closed position, substantially as set forth. 95

7. In an umbrella holder, the combination of the plate B, the jaw C, the jaw C', provided with the rear extension D, the pivoted lever E, and the rod F adapted to be automatically moved into the path of said extension when an umbrella is removed from the holder, substantially as set forth. 100

In testimony whereof I sign this specification in the presence of two witnesses. 105

HENRY TIDEMAN.

Witnesses:

GRANT MARTIN,
MILLIE COLLVER.