

UNITED STATES PATENT OFFICE.

HERBERT D. WOOD, OF PHOENIX, NEW YORK.

TOILET-PAPER HOLDER.

1,133,600.

Specification of Letters Patent.

Patented Mar. 30, 1915.

Application filed August 18, 1914. Serial No. 857,286.

To all whom it may concern:

Be it known that I, HERBERT D. WOOD, a citizen of the United States, and resident of Phoenix, in the county of Oswego, in the State of New York, have invented new and useful Improvements in Toilet-Paper Holders, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

10 This invention relates to certain improvements in toilet paper holders, involving an inclosing case adapted to be secured to a wall and a paper reel journaled in a horizontal position to rock within the case and
15 counter-weighted to assume an edgewise position vertically so that the toilet paper which is slit or cut transversely at intervals from its opposite longitudinal edges may be supported in a similar position with its free
20 end hanging vertically from the reel, preferably at the rear side thereof, and is closely related to my co-pending application filed March 17, 1914, Serial No. 825,211, which contains the broad claims to many features
25 disclosed herein.

For use in connection with the holder hereinafter described, the transverse slits in the paper occur at regular intervals so as
30 always to appear at the top edge of the reel, and the outside sheet has a loose end hanging below the inclosing case in position to be grasped by the operator.

The primary object of the invention is to provide the inclosing case with a movable
35 door or closure through which the reel may be removed for the purpose of refilling, and in this instance a movable rear wall adapted to be locked in closed position by means operating in connection with the reel, until
40 the paper has been removed from the reel, at which time the unlocking means is exposed to operation.

The invention claimed herein, as distinguished from the broader claims of my co-
45 pending application referred to, resides in the particular form of locking and unlocking means for accomplishing the above purpose.

Other objects, purposes and advantages
50 will definitely appear from the following

description, taken in connection with the accompanying drawings, in which—

Figure 1 is a front elevation of the paper holder. Fig. 2 is a rear elevation of the same. Fig. 3 is a vertical longitudinal cross
55 section of the same, showing the reel in full. Fig. 4 is a cross section on line 4—4, Fig. 1. Fig. 5 is a cross section on line 5—5, Fig. 1.

The invention comprises an inclosing case
60 —1— provided with a rear door or closure —2— pivoted at its lower edge at —3— to the case —1— to swing outwardly therefrom and allow the insertion and removal of a paper-receiving reel —4—. It will,
65 however, be apparent that when the movable closure —2— is secured to a wall or other support, as by means of screws passed through the elongated openings —5—, this closure remains stationary, while the main
70 body of the case may be moved about the pivot —3— as shown in dotted lines, Fig. 4.

The paper reel —4— is preferably a casting formed with a counter-weighted portion
75 —6— adapted to normally hold the reel in a vertical edgewise position and to return it to that position after each rocking or tilting movement due to the disengagement of the paper from the reel.

The reel —4— is provided with similarly
80 disposed pairs of bearings —7— and —8— and —9— and —10—, respectively, upon opposite sides of the central portion thereof, each pair adapted to receive a similar journal —11— and —12— respectively, said
85 journals normally held in extended position as to project from the opposite sides of the reel, by means of a coil spring —13— compressed between and attached to the inner ends of the respective journals.

The outward movement of the journals
90 —11— and —12— is limited, however, by suitable levers —14— and —15— pivoted upon a stub shaft —16— forming a common axis about which the levers move, and
95 having their ends pivotally connected to the respective journals —11— and —12— so that as the free ends of the levers are compressed or drawn toward each other the journals —11— and —12— will be retracted
100

against the action of the spring —13— to release said journals from engagement with their supporting bearings, for the purpose hereinafter described. These bearings for the journals —11— and —12— comprise a pair of arms —17— and —18— respectively, projecting from the movable closure —2— into the case —1— and, as shown, these arms are formed by cutting away and bending inwardly a portion of the wall of the movable closure and each arm is provided with a bearing, —19— and —20— respectively, for the reception of the journals —11— and —12—.

The side walls of the case —1— are each provided with an additional bearing for the journals —11— and —12—, and these bearings are preferably formed in plate-like pieces of metal —21— of the form shown in dotted lines, Fig. 4, the end portions —22— and —23— being offset from the plane of the central portion —24— so that these end portions —22— and —23— may be connected to the side walls of the case portion —1— by soldering, brazing, or otherwise, and the central portion —24— will be spaced a sufficient distance from the side walls so that the journals —11— and —12— may project through openings —25— without contacting with the side walls of the case. The portion —26— of this plate-like member —21— which extends rearwardly from the portion —24— toward the movable closure —2— is bent at an angle to the portion —24— so that at its rear edge it contacts with the side wall of the casing —1—, as best shown in Fig. 5, to form an inclined surface up which the movable journals —11— and —12— may ride as they are forced toward their bearings —19— and —20—.

The operation of this portion of the device is as follows: After the paper has been placed upon the reel, the journals —11— and —12— normally in extended position are placed in the open sided bearings —19— and —20— and the movable closure is then pushed shut; the journals —11— and —12— ride up the inclined surface —25— and are gradually forced inwardly the necessary distance against the action of the spring —13— until these journals register with the bearings —25—, at which point the spring —13— again forces the journals outwardly so that they engage with these bearings.

The operating or unlocking levers —14— and —15— are entirely hidden by the paper roll and cannot be operated until the paper has been removed from the roll, sheet by sheet, and until the paper has been removed and these unlocking levers may be operated the case and movable closure are locked against relative movement by the journals —11— and —12— engaging the open-sided

bearings —19— and —20— and the bearings —25— in the plates —21—.

The structure here disclosed also embodies a pivoted arm —27— bearing upon the upper surface of the roll at the rear of the transverse slits or perforations therein, and adapted to kick off the loose end of each succeeding sheet, due to the rocking movement of the reel caused by disengagement of the former sheet.

The broad claims to this portion of the device and to the means for locking the movable closure are, however, contained in my co-pending application above referred to.

Although I have described and shown one particular embodiment of my invention as being preferable, it will be apparent that many changes may be made in the details of construction, arrangement and operation without departing from the spirit of this invention as set forth in the appended claims.

What I claim is:

1. In a service cabinet, a paper reel having an endwise movable journal, means for normally holding said journal in bearing engaging position, and a lever pivotally mounted on the reel and pivotally connected to said journal for withdrawing the same from bearing engaging position.
2. In a service cabinet, a flat elongated reel adapted to receive an oval paper roll and having journals upon opposite sides thereof, one of the same being movable endwise, means for normally holding said journal in bearing engaging position, a lever mounted upon said reel and operably connected to said movable journal to withdraw the same from bearing engaging position, said lever lying in substantial parallelism with a flat surface of said reel so that it is adapted to be inclosed by the paper roll to prevent operation thereof until the paper is removed from the reel.
3. In a toilet paper holder, a paper reel having endwise movable journals upon opposite sides thereof, means for normally holding said journals in extended position, separate levers pivotally mounted on said reel and connected respectively to the inner ends of the respective journals for retracting said journals.
4. In a toilet paper holder, a paper reel having endwise movable journals upon opposite sides thereof, means for normally holding said journals in extended position, separate levers pivotally mounted on said reel and having a common axis, and connected respectively to the inner ends of the respective journals for retracting said journals.
5. In a toilet paper holder, a paper reel having endwise movable journals upon opposite sides thereof, a spring connected to

and compressed between the inner ends of
the respective journals to normally hold
them in extended position, separate levers
pivotally mounted on said reel and con-
5 nected respectively to the inner ends of the
respective journals for retracting said
journals.

In witness whereof I have hereunto set
my hand this 7th day of August, 1914.

HERBERT D. WOOD.

Witnesses:

IRVING S. WOOD,
E. G. HUTCHINSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."