

1,046,070.

E. JEROME.
TOILET PAPER HOLDER.
APPLICATION FILED JUNE 15, 1909.

Patented Dec. 3, 1912.

2 SHEETS—SHEET 1.

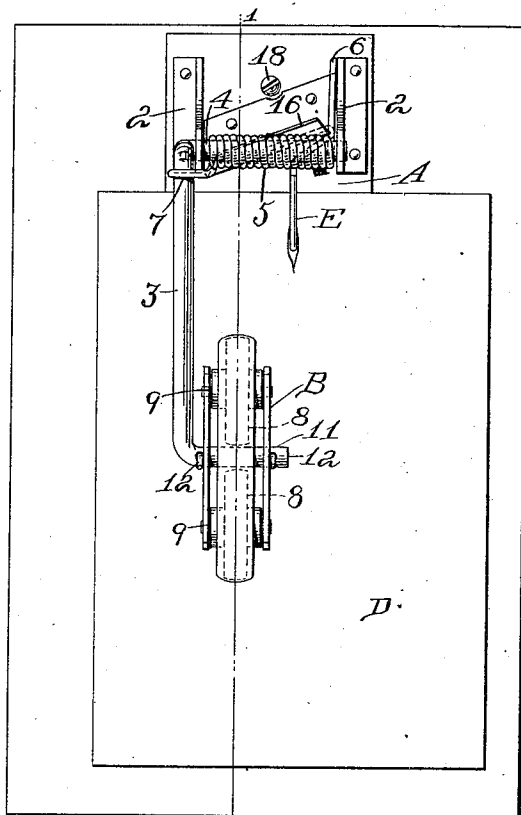


Fig. 1.

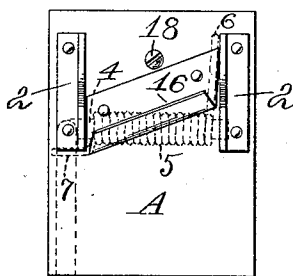


Fig. 4.

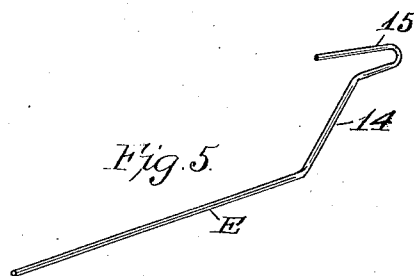


Fig. 5.

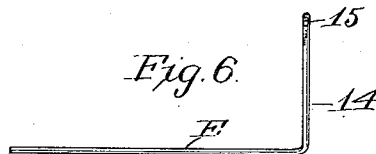


Fig. 6.

ATTEST.

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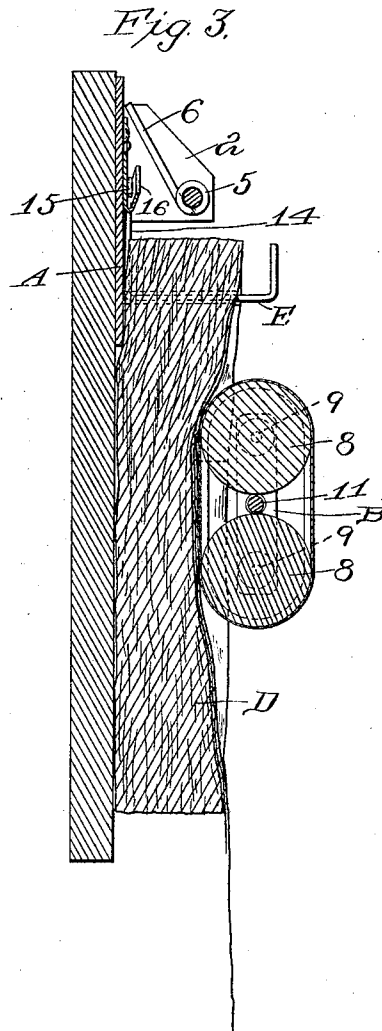
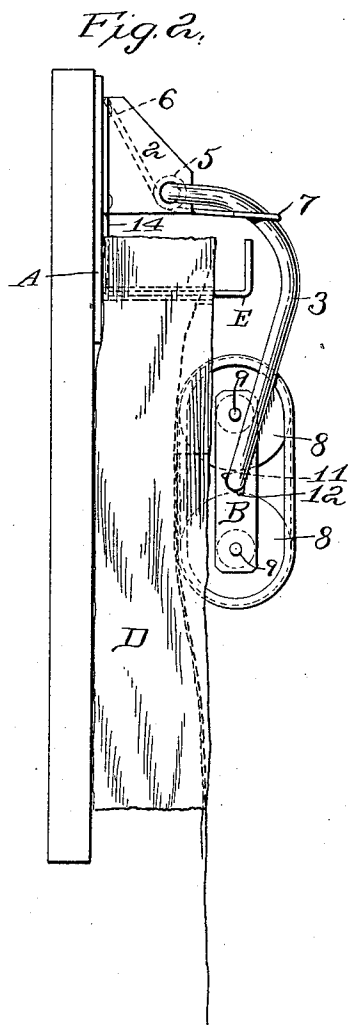
EDGAR JEROME.

By Spear, Middleton, Donaldson & Spear
ATTY'S.

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UNITED STATES PATENT OFFICE.

EDGAR JEROME, OF NORWALK, CONNECTICUT.

TOILET-PAPER HOLDER.

1,046,070.

Specification of Letters Patent.

Patented Dec. 3, 1912.

Application filed June 15, 1909. Serial No. 502,345.

To all whom it may concern:

Be it known that I, EDGAR JEROME, citizen of the United States, residing at Norwalk, Fairfield county, Connecticut, have invented certain new and useful Improvements in Toilet-Paper Holders, of which the following is a specification.

My invention hereinafter described relates to that class of toilet-paper holders in which a package of paper sheets of the ordinary form is held under elastic pressure, and from which single sheets may be grasped and drawn, the withdrawal of the sheet automatically leaving the succeeding sheet protruding to the grasp.

My invention consists in certain details hereinafter specified and described, and shown in the accompanying drawing, in which—

Figure 1 shows a plan view; Fig. 2 a side elevation; Fig. 3 a vertical longitudinal section on line 1—1 of Fig. 1; Fig. 4 a plan of the holder plate, the package of paper being removed; Fig. 5 a perspective of the connecting wire, and Fig. 6 a side elevation of the same.

It is important in holders of toilet paper that the holder should be adapted to receive the ordinary package, which is usually composed of rectangular sheets, connected by a wire, which passes through the sheets at one end, this wire ordinarily having a hook or eye on its rear by means of which the package is suspended. It is important also that the user should be able to grasp single sheets, and readily as many single sheets in succession as may be required. Further, while pressure is required in order to hold the sheets when they are presented in succession and withdrawn to the last of the package, it is important that this pressure should be evenly applied, and should be light and well regulated, and that the successively removed sheets should move easily, and that the succeeding sheet should be certainly started sufficiently to be readily grasped.

Simplicity of construction and freedom from liability to derangement are also essential. These conditions I have met in the construction shown herein.

In the drawings, a base plate A, preferably of metal, is made to carry both the paper package and the spring arm. It is shown as attached to a base board, but may be applied directly to the wall. Upon it are fixed two plate standards 2, 2, in which

are the bearings of a spring arm 3. This arm is formed of a rod or wire, one end 4 of which, bent at right angles, is mounted to turn in holes in the standards. Outside of the standard on one side it extends outwardly and downward, as shown in Fig. 2, and the free end is bent again at right angles as at 11, and parallel with the part 4, and carries the wheel frame B, which bears on the package of paper. A coiled spring 5 on the part 4 is held by one end 6 and bears, with the other end 7, on the arm to hold down the roller frame. This frame is composed of two side bars in which are loosely mounted two wheels 8, 8, in line with the movement of the paper and on axles 9, 9, fixed in the bars. A space is left between the wheels for the end 11 of the arm, which passes loosely through holes in the bars, and is held therein by pins 12. The frame is open at the ends and over the periphery of the wheels is stretched a thin elastic band of rubber, having tension sufficient to cause the two wheels to turn in unison. This band bears directly upon the top sheet of the pack of paper D. It thus forms an elongated frictional bearing, in line with the movement of the paper, in removal, so that the rear end drops on the next sheet, drags and starts it to expose the forward end thereof.

The wire E is in general form, like that in common use, except that the inner end 14, bent at right angles, carries an inclined hook 15 in plane at right angles to that part of the wire E which passes through the pack, so that the hook, when in place, lies against the base plate A. It is held firmly in place by lodgment in an upturned flange 16 on said plate. It thus sustains the pack, and the pack wire is, by the same means, held in line. The wire E, as usual, passes through the end of the pack, about midway between its side edges. When a sheet of paper is drawn away from the pack, in the rupture of the paper from the wire small fragments are detached, which, if caught upon the elastic band, would tend to clog it. For this reason the location of the package in relation to the wheels and band is so determined by the suspending means, including the hook, that this hook lies to one side of the vertical plane in which the pressure wheels and band are located and operate.

It will be observed that the wheel frame is loose on the end of the arm, and therefore adapts itself freely to the surface of the

pack, and that the band not only connects the wheels, but forms the bearing face for the paper. The band is made thin and elastic, and care is taken not to put heavy strain on the wheels, which would increase their friction, and tend to impair their light and free movement and operation on the paper. The inclined shape of the hook serves an additional purpose, as it may be used to suspend the pack from an ordinary hook, as the ordinary ring is suspended, so that this pack may be used without the holder, if need be. The base plate is held to the base board or wall by means of a screw 18.

It will be observed that the sheets are drawn from the holder by direct grasp of the hand, and Fig. 2 illustrates the operation. When the top sheet is so grasped and drawn, it passes under the band and turns the wheels. When the upper end of the sheet has passed the upper wheel, that wheel, by reason of the pivoted frame, freely drops, and that part of the band thereon presses upon the next sheet exposed by the removal of the first sheet; and as, by the frictional contact with the first sheet with the band, the wheels continue to move, the next sheet is detached from the wire, and thus the lower end is exposed to the grasp, and so on in succession through the pack. It will be observed that, by reason of the open end of the frame, the band may be removed or replaced readily. The particular form of the hook causes it to lie, when hooked over the flange of the base plate or equivalent support, in a plane at right angles to that part of the wire which passes through the paper, that is to say, in a plane parallel with the wall or base plate, and thus it is firmly held in place. The particular form of the hook is shown in Fig. 5, in which the vertical part or shank of the hook is formed by a right angle bend of the wire, and this shank is again bent in an inclined direction to the right, and then back upon itself to form an open inclined hook, the inclined end extending preferably beyond the first inclined bend of the shank. The whole hook thus lies in the plane of the rear of the paper package, and extends so little beyond the end as not to be in the way. The package with the hook forms an article of manufacture and sale adapted to the holder described.

I claim:—

1. A paper holder comprising a base

plate, a rocking frame carrying at its opposite ends rollers, a connection between the rollers, and means for pressing the rocking frame upon the paper pack, said rollers being positioned one behind the other in relation to the direction of movement of the paper sheet, and said pressing means consisting of a spring arm connecting with the rocking frame at a point intermediate the rollers, substantially as described.

2. In combination with a base plate for a paper pack, pressure means, a spring arm mounted on the plate and carrying said pressure means, and an inclined flange on the said plate adapted to receive an inclined laterally extending hook on a suspension wire, said flange being free at one end for the reception of the hook around said end, substantially as described.

3. In combination with the holder and spring arm, the open end frame pivoted on said arm, and provided with wheels and a removable elastic band.

4. In combination in apparatus of the class described, a spring arm, holding means for the paper comprising the two rollers, an open frame in which said rollers are mounted, said frame being pivotally mounted on the spring arm at a point intermediate of the rollers, and connecting means between the rollers whereby they move in unison, substantially as described.

5. In combination pressure means for bearing on the paper pack and consisting of a pair of rollers, one behind the other, and occupying part only of the surface of the paper sheets laterally, and a laterally extending elongated bearing member open at one end for receiving an elongated hook of a suspending wire to hold said wire out of line vertically with the pressure rollers, substantially as described.

6. A paper holder comprising a base plate, a rocking frame carrying at its opposite ends rollers, a connection between the rollers and means for pressing the rocking frame upon the paper pack, said rollers being positioned one behind the other in relation to the direction of movement of the paper sheets, substantially as described.

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

EDGAR JEROME.

Witnesses:

EDWARD N. SARTON,
PHILIP F. LARNER.