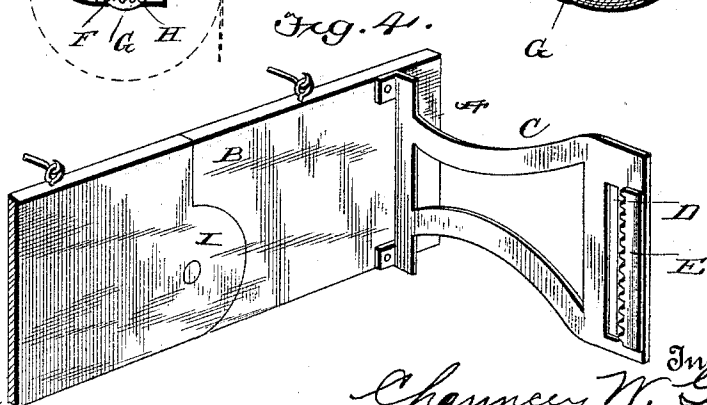
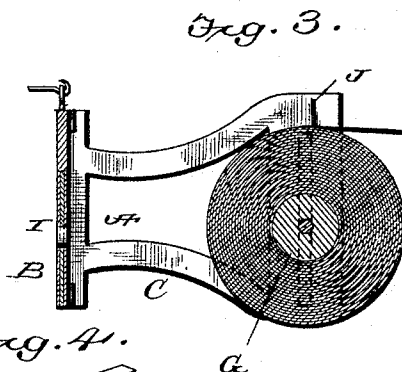
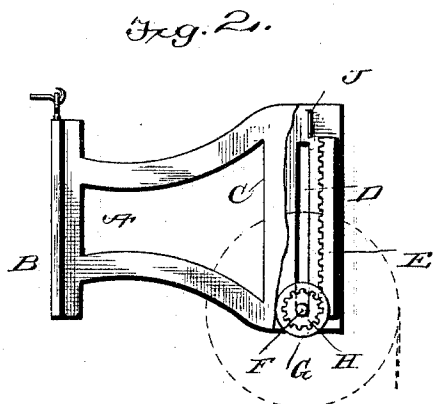
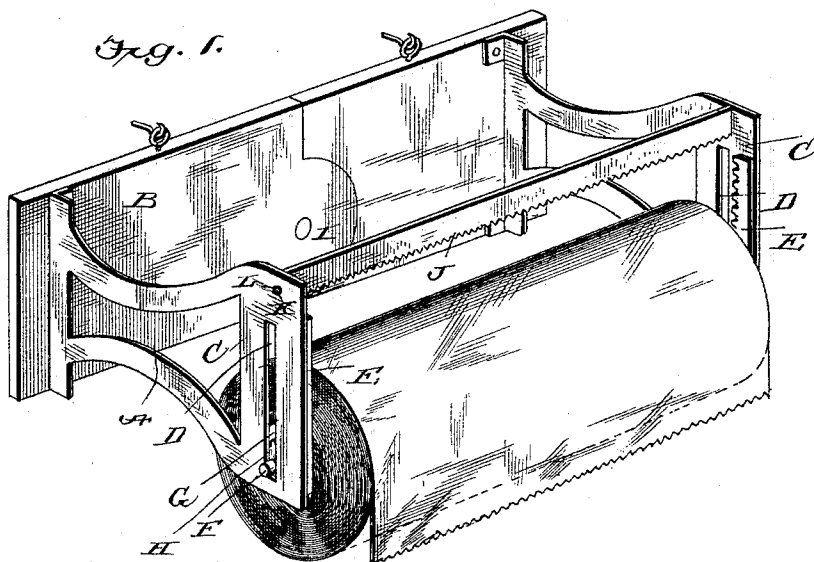


(No Model.)

C. W. GAY.
 FIXTURE FOR TOILET PAPER.

No. 497,916.

Patented May 23, 1893.



Witnesses

John Dowie
At Bishop's

Inventor
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UNITED STATES PATENT OFFICE.

CHAUNCEY W. GAY, OF WEST SPRINGFIELD, ASSIGNOR OF ONE-HALF TO
SAMUEL C. HALL, OF SPRINGFIELD, MASSACHUSETTS.

FIXTURE FOR TOILET-PAPER.

SPECIFICATION forming part of Letters Patent No. 497,916, dated May 23, 1893.

Application filed December 1, 1892. Serial No. 453,731. (No model.)

To all whom it may concern:

Be it known that I, CHAUNCEY W. GAY, a citizen of the United States, residing at West Springfield, in the county of Hampden and State of Massachusetts, have invented certain new and useful Improvements in Fixtures for Toilet-Paper; and I do 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 appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention is an improved fixture or device for holding rolls of toilet paper and it consists in certain novel features hereinafter described and claimed.

The objects of my invention are to provide a device by which a portion of the roll or strip of paper will be automatically detached when required for use, and to so construct and arrange the device that the length of paper detached will be uniform. These objects I attain by the use of the mechanism illustrated in the accompanying drawings in which—

Figure 1 is a perspective view of my improved fixture arranged for use. Fig. 2 is an end elevation with a part broken away showing the position of the roll when at rest. Fig. 3 is a transverse section showing the position when a portion of the paper is being detached, and Fig. 4 is a view of the frame.

In carrying out my invention, I employ a frame A which may be of metal or any other material and is provided with the back plates B and the side plates or arms C. The said arms C are provided near their front edges with the vertical slots D and the rack bars E, in advance of the said slots. These slots receive the trunnions F at the ends of the paper holding roller G and thereby guide the said roller in its movements and prevent its dropping from the frame. At the bases of the said trunnions, I provide the pinions H which mesh with the rack bars E for a purpose presently set forth.

In order that the roller and roll of paper carried thereby may be easily placed in position, I prefer to construct the back plate of

the frame in two parts connected by a hinge joint I, as clearly shown. When it becomes necessary to replenish the roll, one member of the frame is swung downward thus carrying the side arm away from the roller to permit the removal of the same. After a fresh roll of paper has been fitted on the roller, the roller is held in its position relative to the fixed member of the frame while the swinging member thereof is turned back so as to support the same. The two members will be prevented from falling apart accidentally by the screws, hooks or pins which support the fixture.

A knife J extends between the side arms just over the upper ends of the slots E therein and is adapted to sever the paper into strips in the operation of the device. One end of this knife is secured rigidly to the stationary member of the frame while the opposite end is provided with a pin or stud K adapted to engage a socket L in the swinging member of the frame and be thereby supported.

It is thought the operation of the device will be readily understood. When it is desired to use the paper, the free end of the same is grasped and a slight pull exerted thereon; the roll will thus be caused to rotate and the pinions at the ends thereof will thereupon ride upon the rack bars. The roll of paper will thus be brought up against the knife and a part detached as will be readily understood upon reference to Fig. 3. The roll will fall to the lower ends of the slots by gravity.

It will be noticed that my device is extremely simple in its construction and that the length of paper detached will be uniform. When the roll is large, it will be quickly brought to the knife but as the bulk of the roll decreases the time required to bring it to the knife increases so that the length of paper drawn remains the same.

I do not confine myself to the exact construction illustrated as changes may be made in the minor details without departing from the invention.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination of the frame having the

side arms provided with slots and rack bars, a knife extending between the side arms above the slots, and a paper-carrying roller having trunnions playing in said slots and provided
5 with pinions engaging the rack bars.

2. The combination of the frame composed of two parts hinged together, and each having a slotted side arm, a paper-carrying roller playing in the said slotted side arms, and a
10 knife having one end secured to one of the

side arms and its opposite end provided with a pin adapted to engage a socket in the opposite side arm.

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

CHAUNCEY W. GAY.

Witnesses:

FRANK E. ALBOR,
SAMUEL C. HALL.