

S. WHEELER.
PAPER HOLDER.

APPLICATION FILED SEPT. 14, 1912.

1,058,822.

Patented Apr. 15, 1913.

2 SHEETS—SHEET 1.

Fig. 1.

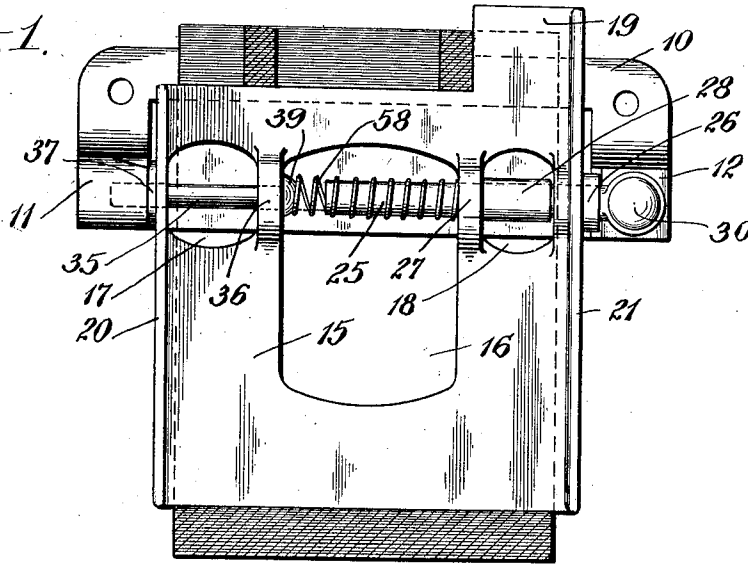
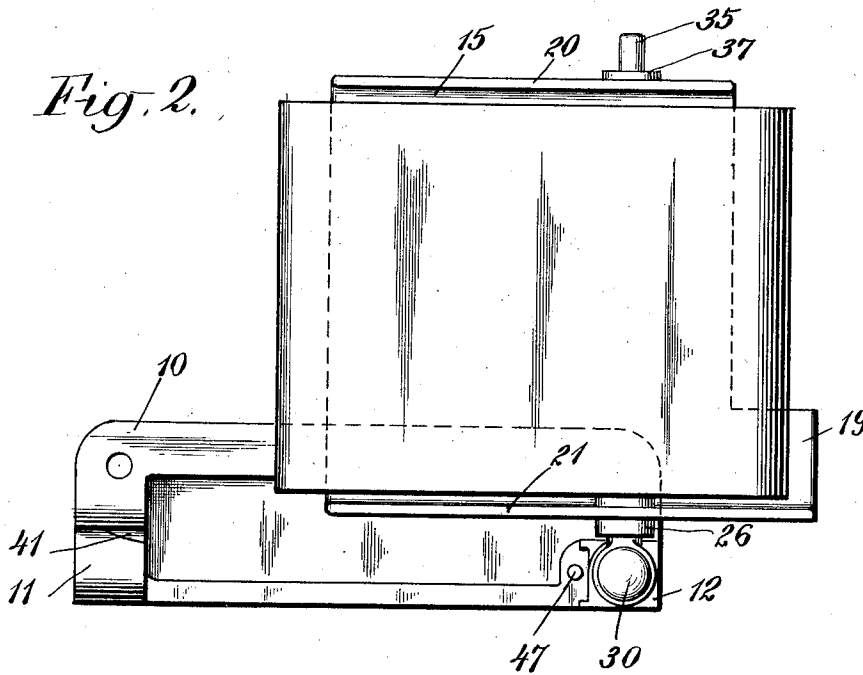


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

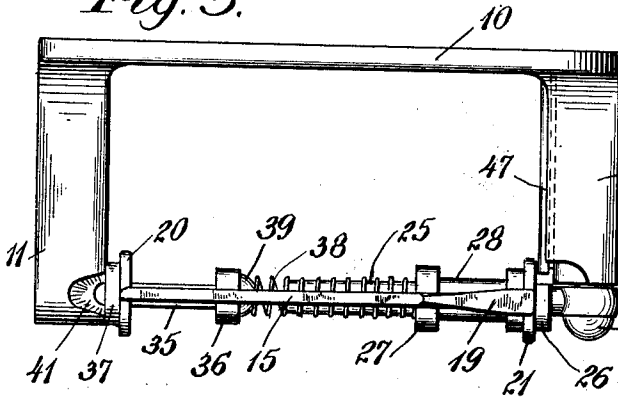


Fig. 4.

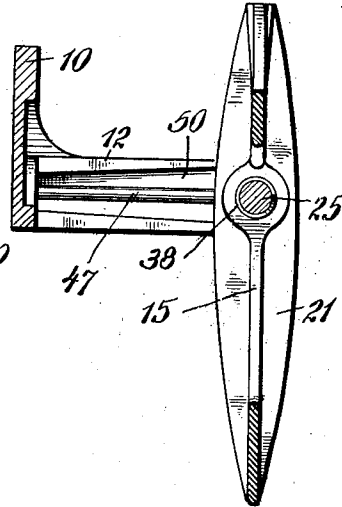


Fig. 5.

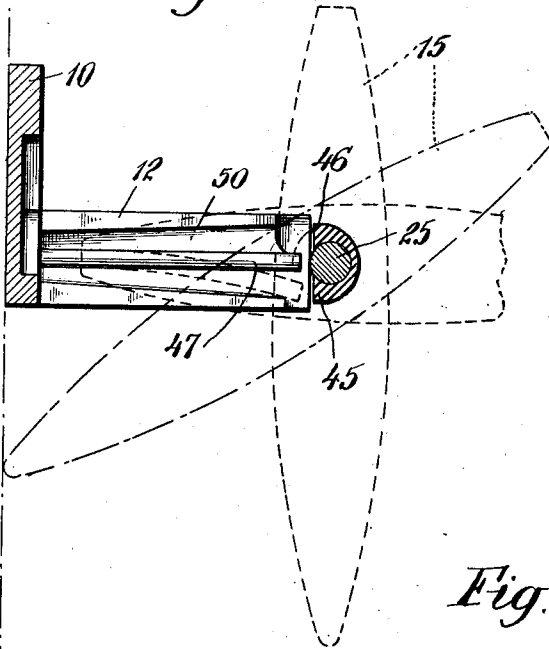


Fig. 6.

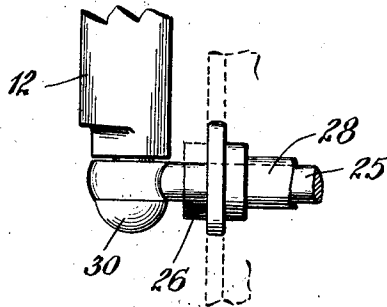
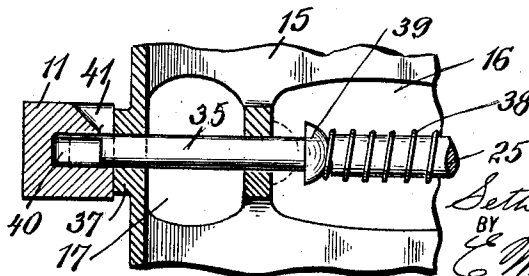


Fig. 7.



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UNITED STATES PATENT OFFICE.

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PAPER-HOLDER.

1,058,822.

Specification of Letters Patent.

Patented Apr. 15, 1913.

Application filed September 14, 1912. Serial No. 720,316.

To all whom it may concern:

Be it known that I, SETH WHEELER, a citizen of the United States, and a resident of Castleton, county of Rensselaer, State of New York, have invented certain new and useful Improvements in Paper-Holders, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof.

My invention relates to paper holders and it has special reference to that class of toilet paper fixtures, in which the core and the roll of paper which is mounted on it, are arranged to oscillate.

The object of my invention is to provide a fixture of the character above indicated that shall be simple, strong and durable in construction and relatively inexpensive to manufacture, and have a core that cannot be improperly mounted in its support.

In the drawings, Figure 1 is a front elevation with a roll of paper shown in cross section, of a fixture constructed in accordance with my invention. Fig. 2 is a view corresponding to Fig. 1 indicating the position of the core of the device, when the roll of paper is first placed in position upon it. Fig. 3 is a plan view, and Fig. 4 a sectional side elevation of the fixture shown in Figs. 1 and 2, with the roll of paper removed. Fig. 5 is another sectional side elevation with two of the positions of the paper-holding core shown in dotted lines. Figs. 6 and 7 are detail views on a larger scale of certain parts of the device.

Like characters of reference designate corresponding parts in all the figures.

Referring to the drawings, the fixture here shown comprises a stationary base or bracket 10, having outwardly extending arms or projections 11 and 12 and a core 15.

The core member 15 comprises a substantially rectangular body which may be cast or formed otherwise in any suitable manner and is provided with a large centrally located opening 16, a pair of smaller openings 17 and 18, a projection 19 at one corner and side flanges 20 and 21 which constitute elliptical guards for holding the paper in position on the body of the core. The core is pivotally mounted on a pin 25 which extends through suitable holes in boss projections 36 and 27, located one on each side of the opening 18 in the body considerably above the center of the core and is prevented from ready removal from the pin by a sleeve or

bushing 28 which is pressed onto the pivot pin 25 between the boss projections 36 and 27.

The outer end of the pin 25 is formed into an eye and is pivotally secured to a stationary pin 30, which is mounted upon and constitutes an extension of the arm or projection 12. The arrangement of parts is such that the core and the pin 25, on which it is rotatively supported, may be swung in a vertical plane about the pin projection 30 as an axis.

The pin 35 extends from the central opening 16 in the core 15 through a pair of boss projections 36 and 37, located one on each side of the opening 17 and is pressed outwardly by a helical spring 38, which bears upon the head 39 of the pin 35 and is held in position, between the boss projections 27 and 36 by the inner end of the pin 25 on which the spring is coiled. The head 39 limits the outward movement of the pin 35 and the adjacent end of the pin 25 limits its inward movement.

The arm or projection 11 is provided with a hole or socket 40, having an inclined guideway or notch 41 in the upper side of the arm which tends to push the pin 35 inwardly in opposition to the spring 38 until the outer end of the pin falls into the hole or socket 40, as the core is swung downwardly, after the roll of paper is in position.

When the pin 35 is in its socket, the core is free to oscillate on the pins 25 and 35, which are in alinement with each other and constitute an axis of oscillation. The axis of oscillation is to one side of the center of the substantially rectangular body of the core, so that the weight of the core is unequally distributed and the core tends to assume a substantially upright position when assembled in the fixture. The portion of the core which is below pin 25 is longer than the arms 11 and 12 so that it is not possible to rotate the core. Furthermore I prefer that the axis of oscillation shall be slightly offset laterally from the plane of the body in order that the core shall assume a slightly oblique position with the lower end somewhat closer to the wall or vertical plane upon which the base 10 is mounted.

The inside of the boss projection 26 is cut off near the pin 25 to form corner projections 45 and 46 which are respectively adapted to engage the end of a spring 47, that extends outwardly from the base 10 adjacent and parallel to the arm 12, when

the core is oscillated in one direction or the other.

5 The inner vertical surface of the arm 12 is preferably provided with a slot 50 in which the spring 47 is located to limit the possible deflection of the spring and the oscillatory movement of the core in both directions.

10 The projection 19 extends through a slot in one corner of the roll of paper in order to prevent the roll from creeping or slipping about the core.

15 The arrangement of parts is obviously such that when a roll of paper is placed on the core and the pin 35 is seated in the socket 40 it is impossible to remove the roll as a whole, or to change the engagement of the different parts of the fixture until all of the paper has been removed from the roll, one sheet at a time. The joint between the pin 25 and the pin projection 30 is intentionally not a universal joint. Consequently the rotative movement of the pin and the core as a whole is restricted to a vertical plane.

20 Attention is directed to the fact that it is particularly easy to mount a roll of paper on the core since it may be swung to a vertical position as shown in Fig. 2 of the drawings and the roll of paper then slipped downwardly onto it.

25 It is also important that the entire operation may be performed in a very limited space.

35 While I have illustrated a specific structure, which embodies my invention and which I believe is particularly advantageous, my

invention is not restricted to the exact details shown and described and I intend that only such limitations be imposed as are indicated in the appended claim. 40

What I claim is:

In a paper holder, the combination with a base having supporting arms, the inner surface of one of the arms being grooved, the inner surface of the other being provided with a socket, and a spring extending in the groove from the base, adjacent and parallel to the grooved arm and a stationary pivot pin extending outwardly from and forming a continuation of said grooved arm, of a core, adapted to support a roll of paper, having a transverse pin materially above the center of the core to which it is secured and on which it is adapted to oscillate, a second pin forming an extension of the axis of oscillation and adapted to engage said socket, a spring interposed between the pins said first named pin being pivotally secured to the stationary pivot pin, whereby the core as a whole is adapted to be swung only in a vertical plane to receive a roll of paper and to oscillate about the other pins as an axis, said core being provided with projections which engage said first named spring when the core is oscillated in either direction from a substantially upright position. 55 60 65

In witness whereof, I have hereunto set my hand this 12 day of September, in the year 1912.

SETH WHEELER.

Witnesses:

WM. A. WHEELER,
SETH WHEELER, Jr.