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TOILET ROLL DISPENSER

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4 Claims. (Cl. 242—55.2)

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This invention relates to a new and improved toilet roll dispenser and more particularly to a holder for rolls of toilet paper so constructed as to prevent removal of a roll of paper from the holder until the roll has been substantially used up.

The holder is particularly adapted for use in public places where unauthorized removal of rolls of paper results in substantial losses.

It is an object of the present invention to provide a new and improved toilet roll dispenser or the like. While the construction is particularly adapted for use with rolls of toilet paper, it may be used with rolls of other materials, such for example, as paper towels.

It is a further object to provide a fixture of this character provided with means for frictionally restraining the removal of paper from the roll by rotation thereof.

It is an additional object to provide a restraining means wholly enclosed by the paper roll and thus guarded against tampering.

It is also an object to provide a fixture in which the supporting means for the roll carries locking means, the operating element of which is covered by the roll of paper.

It is another object of the invention to provide a fixture which is simple in design and construction and adapted for commercial production and use.

Other and further objects will appear as the description proceeds.

I have shown a preferred embodiment of my invention in the accompanying drawing, in which Figure 1 is a perspective view of the fixture, and

Figure 2 is a plan view, partly in cross section.

In the drawing, the fixture comprises a base 10 adapted to be secured by any desired means to a wall or other support. The fixed arm 11 extends from one end of the base and is provided with the cylindrical support member 12 sized to fit loosely within the usual tubular core 13 of a roll of toilet paper or the like 14.

The opposite end of the base 10 is provided with hinge lugs 15 which fit in recesses 16 in the swinging arm 17, a hinge pin 18 extending through registering bores in the arm and lugs. The outer corner of the inner end of the arm 17 is rounded as shown at 19 so that the arm may be swung to the broken line position shown in Figure 2.

The arm 17 is provided with a bore 20 communicating with a slot 21 to receive the arm locking means. This locking means comprises a sliding lock pin having a reduced portion 22 carried

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in bore 20 and a slightly larger threaded section 23 fitting in the slot 21. The nut 24 is screwed onto the threaded section 23 and engages one end of the compression spring 25, the opposite end of which engages the end 26 of slot 21. The base 10 is provided with the locking recess 27, to receive the end of pin portion 22 as shown in Figure 2.

The arm 17 carries the tubular support member 28, opposite the support member 12, to receive the opposite end of the roll core 13. The retarding spring 30 is shown screwed to the arm 17 at a point 31 within the support member 28. This spring 30 has a contact foot 32 engaging the inside of the roll core 13 to frictionally retard rotation of the roll of paper. It will be noted that this retarding mechanism is fully enclosed by the roll and consequently cannot be manually put out of operation.

While the arm 11 has been shown as integral with the base 10, this is not essential as it is only important that it be positively held against movement to free the roll, or movement in the counter-clockwise direction as seen in Figure 2.

In the use of the device, when it is empty, or when only the core 13 remains in place, the nut 24 is uncovered and may be pushed toward the free end of the arm 17 to free the end of the pin portion 22 from the recess 27 so that the arm 17 may be swung to the dotted line position of Figure 2. This frees the core 13 which may be removed. A new full roll is placed in position on the support member 12 and the arm 17 may then be swung to the full line position of Figure 2. The contact foot 32 passes inside the core 13 and engages its inner face. The end of lock pin portion 22 engages the face of the base 10, compressing spring 25 as the arm 17 is swung and when it reaches its full line position in Figure 2 the end of the pin 22 snaps into the recess 27, under pressure of the spring, thus locking the arm 17 in place.

While I have shown one preferred form of my invention, this is to be understood to be illustrative only as it is capable of modification to meet differing conditions and requirements and I contemplate such variations as come within the spirit and scope of the appended claims.

I claim:

1. A roll supporting fixture comprising a base, an arm fixed to the base, said fixed arm carrying a roll support member, a swinging arm pivoted to the base and carrying a second roll support member, and a latch pin carried by the swinging arm and adapted to engage the base to latch the arm

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in supporting position, the latch pin having an actuating member, said member being normally covered by a roll supported by the fixture.

2. A roll supporting fixture comprising a base, an arm fixed to the base, said fixed arm carrying a roll support member, a swinging arm pivoted to the base and carrying a second roll support member, and a latch pin carried by the swinging arm and adapted to engage the base to latch the arm in supporting position, a spring normally holding the latch pin in latched position, the latch pin having an actuating member, said member being normally covered by a roll supported by the fixture.

3. A roll supporting fixture comprising a base, an arm fixed to the base, said fixed arm carrying a roll support member, a swinging arm pivoted to the base and carrying a second roll support member, the base having a recess formed therein adjacent the swinging arm, a sliding lock pin fitted in the swinging arm, a spring fitted about the pin and urging the pin into said recess to latch the swinging arm in supporting position, and

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manually operable means on the pin whereby the pin may be drawn out of said recess, said manually operable means being adjacent the second roll support member and normally covered by a roll carried by the fixture.

4. A roll supporting fixture comprising a base, an arm fixed to the base, said fixed arm carrying a roll support member, a swinging arm pivoted to the base and carrying a second roll support member, the base having a recess formed therein adjacent the swinging arm, a sliding lock pin fitted in the swinging arm, a spring fitted about the pin and urging the pin into said recess to latch the swinging arm in supporting position, manually operable means on the pin whereby the pin may be drawn out of said recess, said manually operable means being adjacent the second roll support member and normally covered by a roll carried by the fixture, and a retarding member extending from the second support member to engage the inner surface of a roll supported by the fixture.

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