

July 5, 1938.

E. KREUTZIG

2,123,012

TOILET SEAT ATTACHMENT TO RELEASE SANITARY TISSUE COVERS

Filed Feb. 16, 1938

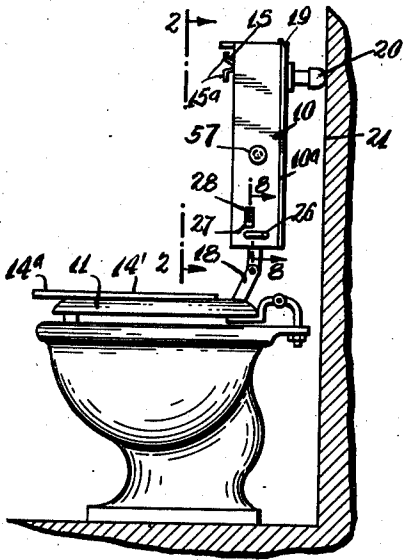


Fig. 1.

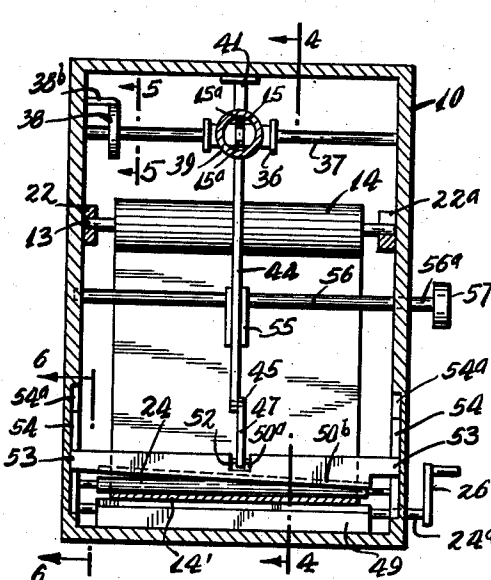


Fig. 3.

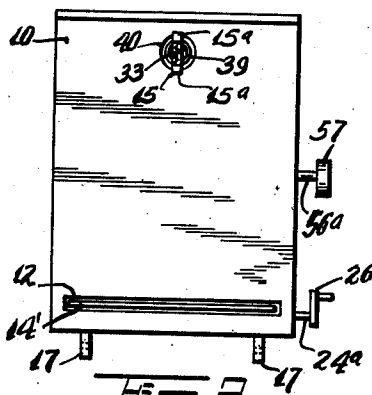


Fig. 2.

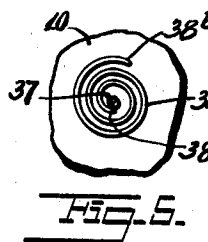


Fig. 5.

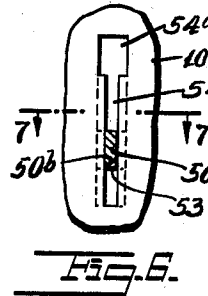


Fig. 6.

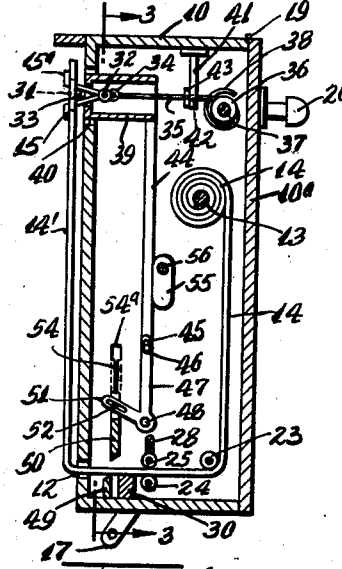


Fig. 4.

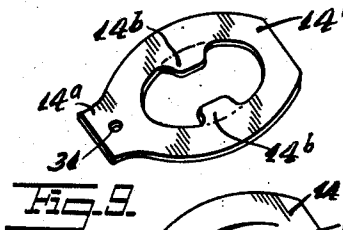


Fig. 9.

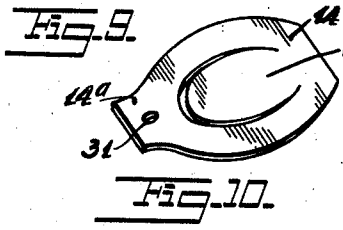


Fig. 10.

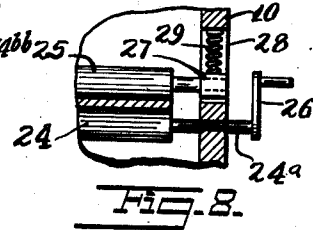


Fig. 8.

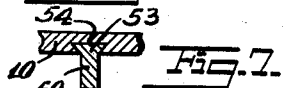


Fig. 7.

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# UNITED STATES PATENT OFFICE

2,123,012

## TOILET SEAT ATTACHMENT TO RELEASE SANITARY TISSUE COVERS

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Application February 16, 1938, Serial No. 190,761

12 Claims. (Cl. 4-247)

This invention relates to new and useful improvements in a toilet seat attachment to release sanitary tissue covers.

More specifically, the invention proposes the construction of a toilet seat attachment for releasing sanitary tissue covers characterized by a container pivotally supported upon a toilet seat and movable to engage over the top of the seat for dispensing a sanitary tissue cover thereon.

Still further it is proposed to provide a roller within the container upon which a continuous web of toilet seats is supported, and to provide a means for feeding the end of the web through a slot formed in the bottom of the container.

Still further it is proposed to provide an automatic means for cutting off the extended portion of the web while the container is in position over the toilet seat for leaving the cut off portion in position thereon.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing forming a material part of this disclosure:—

Fig. 1 is an elevational view of a sanitary tissue cover container constructed according to this invention and applied to a conventional toilet seat.

Fig. 2 is a view looking in the direction of the line 2—2 of Fig. 1.

Fig. 3 is a sectional view on the line 3—3 of Fig. 4.

Fig. 4 is a sectional view on the line 4—4 of Fig. 3.

Fig. 5 is a sectional view on the line 5—5 of Fig. 3.

Fig. 6 is a sectional view on the line 6—6 of Fig. 3.

Fig. 7 is a sectional view on the line 7—7 of Fig. 6.

Fig. 8 is a sectional view on the line 8—8 of Fig. 1.

Fig. 9 is a perspective view of a sanitary tissue cover per se.

Fig. 10 is a similar view to Fig. 9, illustrating another form of sanitary tissue cover.

The toilet seat attachment for releasing sanitary tissue covers, according to this invention, comprises a container 10 of a size to extend over a toilet seat 11 and having a slot 12 in the front wall at the bottom thereof. Means is provided for hingedly supporting the container 10 so that

it may swing from a horizontal position on the toilet seat 11 to a vertical position to the rear of the toilet seat 11. A roller 13 is rotatively supported within the container 10 and supports a continuous web of toilet seats 14 with the end toilet seat 14' of the web extending from the slot 12. Means is provided for feeding the web through the slot 12 and a clip 15 is mounted on the top of the front wall of the container 10 for holding the top end with the web extended across the front wall of the container 10. Means is formed on the clip for releasing the holding action of this clip, and means is formed within the container for cutting off the extended toilet seat.

The container 10 is substantially rectangular in shape and is formed at its bottom end with lugs 17 which are adapted to be pivotally supported upon lugs 18 formed on the rear portion of the seat 11 for pivotally supporting the container thereon. The container is formed with a cover 10a on its rear side which is hingedly supported at its top end by a hinge 19 so that it may be moved to the open position to replace the continuous web 14 when it has been completely used. An extension peg 20 is formed on the top end of the cover 10a and is adapted to abut the wall 21 to the rear of the container for holding the container in a vertical position to the rear of the toilet seat 11.

The roller 13 is rotatively supported between the bearings 22 attached to the side walls of the container 10. One of the bearings 22 is formed with an open side 22a through which the end of the roller 13 may pass for permitting this roller to be removed from the container 10 when it is desired to replace the continuous web 14. The web extends downward over a roller 23 extending between the side walls of the container 10. From the roller 23 the web 14 passes through a superimposed pair of said rollers 24 and 25. The lower roller 24 is fixedly supported between the side walls of the container 10 and has a portion 24a extending through one of the side walls of the container 10 and is formed with a handle 26 by which this roller may be rotated for feeding the end of the web through the slot 12. A means is formed upon the ends of the upper roller 25 for resiliently urging this roller against the lower roller 24 and comprises blocks 27 formed on the ends of the roller 25 and engageable into vertical elongated slots 28 formed in the side walls of the container 10. Expansion springs 29 operate between the top faces of the blocks 27 and the top faces of the elongated slots 28 for urging the blocks

27 downwards to urge the roller 25 against the roller 24.

A block 30 is mounted on the bottom wall of the container 10 and is adapted to support the extending portion of the web 14 for directing it through the slot 12 when the rollers 24 and 25 are rotated. At spaced positions the continuous web of toilet seats is formed with openings 31 through which the clip 15 is adapted to pass. The clip 15 comprises separate sections 15a pivotally connected together at one of their ends by a pin 32. A spring 33 operates between the adjacent faces of the sections 15a for urging these sections apart to hold them in position within the opening 31. Adjacent the pivoted end of the sections 15a the clip 15 is formed with a ring 34 to which a cord 35 is secured. The cord 35 passes into the container 10 and is adapted to be wound upon a spool 36 attached to a shaft 37 rotatively supported between the side walls of the container 10.

A helical spring 38 has one of its ends 38a fixedly attached to a portion of the shaft 37 and the other of its ends 38b attached to the side wall of the container 10 for urging the shaft 37 into a position in which the cord 35 will be wound upon the roller 36. The clip 15 and the string 35 pass through a tubular member 39 which extends into an opening 40 formed in the front wall of the container 10. When the clip 15 is urged into the tubular member 39 the sections 15a will be urged together against the action of the spring 33 to release the holding action of the clip 15. This latter member comprises a means for releasing the holding action of the clip.

The spring 38 is stronger than the spring 33, and a means is provided for preventing the spring 38 from drawing the clip 15 into the tubular member 39 to compress the sections 15a and release the holding action, of the clip 15. This latter-mentioned means comprises a downwardly extending finger 41 attached to the top wall of the container 10 and formed with an opening 42 through which the cord 35 passes. A stop member 43 is attached to the cord 35 in front of the finger 41 for preventing the spring 38 from drawing the cord all the way into the container 10 and release the holding action of the clip 15.

The tubular member 39 is mounted upon one end of a rod 44 and the other end of this rod is provided with the means for cutting off the extended toilet seat. The bottom end of the rod 44 is formed with a pin 45 which extends through an elongated slot 46 formed in one arm of a bell-crank 47 pivotally mounted upon a shaft 48 extending between the side walls of the container 10. A knife blade 49 is fixedly attached to the bottom wall of the container 10 between the front wall thereof and the block 30. A complementary blade 50 is slidably supported between the side walls of the container 10 and is formed with a cutout portion 50a into which the other arm of the bell-crank 47 is adapted to extend. This arm is formed with a slot 51 which engages a pin 52 extending between the cutout 50a so that when the rod 44 is moved toward the front wall of the casing 10 it will pivot the bell-crank 47 to urge the slidable knife blade 50 downward to cut off the extended portion of the web of toilet seat covers 14.

The slidably mounted blade 50 is formed with an inclined bottom cutting edge 50b which is adapted to cooperate with the cutting edge on the knife blade 40. The slidable mounting of the blade 50 comprises dove-tailed members 53 formed

on the ends of the blade 50 and which are adapted to engage complementary dove-tailed grooves 54 formed in the side walls of the container 10. The upper ends of the grooves 54 are formed with enlarged portions 54a into which the dove-tailed members of the blade 50 may be slipped.

A means is provided for urging the rod 44 towards the front wall of the container 10 for simultaneously releasing the holding action of the clip 15 and for cutting off the extended portion of the toilet seat web. This means comprises a cam 55 attached to a shaft 56 rotatively extended between the side walls of the container 10. A portion 56a of the shaft extends through one of the side walls of the container 10 and is formed with a knob 57 by which the shaft 56 may be rotated for moving the cam 55 from its inoperative to its operative position.

In Fig. 9 a perspective of one of the toilet seat covers 14' is shown. At the front end the toilet seat cover 14' is formed with an outwardly extending portion 14a which has the openings 31 through which the clip 15 is adapted to be passed. The opening in the toilet seat cover 14' is formed with inwardly extending portions 14b which are adapted to extend downward through the opening in the toilet seat 11 for holding the sanitary cover 14 in position thereon.

In Fig. 10 the toilet seat cover 14'' is formed with a large central tongue 14bb which protrudes into the toilet bowl and acts as a flusher to remove the paper from the seat 11 and discard the same.

The operation of this device is as follows:—

The handle 26 is rotated to extend the portion of the web 14 through the slot 12 and the clip 15 is pulled outwards to the bottom of the container 10 where the sections 15a are urged together against the action of the spring 33 so that the outer ends of these sections may be passed through the opening 31. Then the handle 26 is further rotated to completely extend the toilet seat cover 14' so that the spring 38 may urge the cord 35 back on to the roller 36 to move the clip 15 back to its normal position to extend the toilet seat across the front wall of the container 10.

When the clip 15 reaches its normal position the container 10 is pivoted from the vertical position to the horizontal position and the knob 57 is rotated to move the cam 55 from its inoperative to its operative position. When the cam 55 is moved to the operative position it will urge the rod 44 toward the front wall of the container 10 to cause the tubular member 39 to move along the length of the sections 15a of the clip 15 to urge the sections together against the holding action of the spring 33 to release the holding action of this clip to disengage the front end of the toilet seat cover therefrom.

Simultaneously with the release of the holding action of the clip 15 the movement of the cam 55 will pivot the bell-crank 47 to urge the movable knife blade 50 downwards to engage the fixed knife blade 49 and cut the extended seat 14' from the web 14. After the cutting action has been completed the seat cover 14' will be entirely released from the container 10 and properly positioned upon the toilet seat 11, after which the container 10 may be again pivoted to the vertical position.

It is to be understood that the sanitary tissue covers may be made of any suitable texture or material, their shapes and sizes may be changed as desired, also that the device may be coin con-

trolled by using the conventional slot mechanism which will lock or release roller 13 on which the sanitary tissue cover supply is wound.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent is:—

1. A toilet seat attachment to release sanitary tissue covers, comprising a container of a size to extend over a toilet seat and having a slot in the front wall at the bottom, means for hingedly supporting said container to swing from a horizontal position on said toilet seat to a vertical position to the rear of said toilet seat, a roller for supporting a continuous web of toilet seats with the end toilet seat of the web extendible from said slot, means for feeding out said web, a clip mounted on the top of the front wall of said container for holding the top end of a web extended across the front wall of said container, means for releasing the holding action of said clip, and means for cutting the extended toilet seats off from the web.

2. A toilet seat attachment to release sanitary tissue covers, comprising a container of a size to extend over a toilet seat and having a slot in the front wall at the bottom, means for hingedly supporting said container to swing from a horizontal position on said toilet seat to a vertical position to the rear of said toilet seat, a roller for supporting a continuous web of toilet seats with the end toilet seat of the web extendible from said slot, means for feeding out said web, a clip mounted on the top of the front wall of said container for holding the top end of a web extended across the front wall of said container, means for releasing the holding action of said clip, and means for cutting the extended toilet seats off from the web, said supporting of said container comprising downwardly extending lugs formed on the bottom wall of said container and which are pivotally attached to upwardly extending lugs formed on said toilet seat.

3. A toilet seat attachment to release sanitary tissue covers, comprising a container of a size to extend over a toilet seat and having a slot in the front wall at the bottom, means for hingedly supporting said container to swing from a horizontal position on said toilet seat to a vertical position to the rear of said toilet seat, a roller for supporting a continuous web of toilet seats with the end toilet seat of the web extendible from said slot, means for feeding out said web, a clip mounted on the top of the front wall of said container for holding the top end of a web extended across the front wall of said container, means for releasing the holding action of said clip, and means for cutting the extended toilet seats off from the web, said roller being removably supported in said container to permit it to be removed therefrom for replenishing the supply of toilet seat covers.

4. A toilet seat attachment to release sanitary tissue covers, comprising a container of a size to extend over a toilet seat and having a slot in the front wall at the bottom, means for hingedly supporting said container to swing from a horizontal position on said toilet seat to a vertical position to the rear of said toilet seat, a roller

for supporting a continuous web of toilet seats with the end toilet seat of the web extendible from said slot, means for feeding out said web, a clip mounted on the top of the front wall of said container for holding the top end of a web extended across the front wall of said container, means for releasing the holding action of said clip, and means for cutting the extended toilet seats off from the web, said means for feeding out the web comprising a pair of superimposed rollers through which the extended end of said web is adapted to pass, and means on the lower roller for rotating the same, and means on the upper roller for urging this roller against said lower roller to cause said rollers to extend the web when said lower roller is rotated.

5. A toilet seat attachment to release sanitary tissue covers, comprising a container of a size to extend over a toilet seat and having a slot in the front wall at the bottom, means for hingedly supporting said container to swing from a horizontal position on said toilet seat to a vertical position to the rear of said toilet seat, a roller for supporting a continuous web of toilet seats with the end toilet seat of the web extendible from said slot, means for feeding out said web, a clip mounted on the top of the front wall of said container for holding the top end of a web extended across the front wall of said container, means for releasing the holding action of said clip, and means for cutting the extended toilet seats off from the web, said means for feeding out the web comprising a pair of superimposed rollers through which the extended end of said web is adapted to pass, and means on the lower roller for rotating the same, and means on the upper roller for urging this roller against said lower roller to cause said rollers to extend the web when said lower roller is rotated, said first-mentioned means comprising a handle attached to an extended portion of said lower roller.

6. A toilet seat attachment to release sanitary tissue covers, comprising a container of a size to extend over a toilet seat and having a slot in the front wall at the bottom, means for hingedly supporting said container to swing from a horizontal position on said toilet seat to a vertical position to the rear of said toilet seat, a roller for supporting a continuous web of toilet seats with the end toilet seat of the web extendible from said slot, means for feeding out said web, a clip mounted on the top of the front wall of said container for holding the top end of a web extended across the front wall of said container, means for releasing the holding action of said clip, and means for cutting the extended toilet seats off from the web, said means for feeding out the web comprising a pair of superimposed rollers through which the extended end of said web is adapted to pass, and means on the lower roller for rotating the same, and means on the upper roller for urging this roller against said lower roller to cause said rollers to extend the web when said lower roller is rotated, said latter-mentioned means comprising blocks formed on the ends of said upper roller and engageable into elongated slots formed in the side walls of said container, and means operating between the top face of said blocks and the top end of said slot for moving said upper roller against said lower roller.

7. A toilet seat attachment to release sanitary tissue covers, comprising a container of a size to extend over a toilet seat and having a slot in the front wall at the bottom, means for hingedly

supporting said container to swing from a horizontal position on said toilet seat to a vertical position to the rear of said toilet seat, a roller for supporting a continuous web of toilet seats with the end toilet seat of the web extendible from said slot, means for feeding out said web, a clip mounted on the top of the front wall of said container for holding the top end of a web extended across the front wall of said container, means for releasing the holding action of said clip, and means for cutting the extended toilet seats off from the web, said means for feeding out the web comprising a pair of superimposed rollers through which the extended end of said web is adapted to pass, and means on the lower roller for rotating the same, and means on the upper roller for urging this roller against said lower roller to cause said rollers to extend the web when said lower roller is rotated, said latter-mentioned means comprising blocks formed on the ends of said upper roller and engageable into elongated slots formed in the side walls of said container, and means operating between the top face of said blocks and the top end of said slot for moving said upper roller against said lower roller, comprising expansion springs having one of their ends abutting said blocks and the other of their ends abutting the top of said slots.

8. A toilet seat attachment to release sanitary tissue covers, comprising a container of a size to extend over a toilet seat and having a slot in the front wall at the bottom, means for hingedly supporting said container to swing from a horizontal position on said toilet seat to a vertical position to the rear of said toilet seat, a roller for supporting a continuous web of toilet seats with the end toilet seat of the web extendible from said slot, means for feeding out said web, a clip mounted on the top of the front wall of said container for holding the top end of a web extended across the front wall of said container, means for releasing the holding action of said clip, and means for cutting the extended toilet seats off from the web, said clip comprising separate sections pivotally connected together at one of their ends, a spring operating between the adjacent faces of said sections for urging said sections apart, a cord extending into said container and normally wound upon a roller supported upon a shaft, and means for urging said shaft into a position in which said cord will be wound thereon for holding said clip in a position in which it will hold said toilet seat cover extended across the front face of said container.

9. A toilet seat attachment to release sanitary tissue covers, comprising a container of a size to extend over a toilet seat and having a slot in the front wall at the bottom, means for hingedly supporting said container to swing from a horizontal position on said toilet seat to a vertical position to the rear of said toilet seat, a roller for supporting a continuous web of toilet seats with the end toilet seat of the web extendible from said slot, means for feeding out said web, a clip mounted on the top of the front wall of said container for holding the top end of a web extended across the front wall of said container, means for releasing the holding action of said clip, and means for cutting the extended toilet seats off from the web, said clip comprising separate sections pivotally connected together at one of their ends, a spring operating between the adjacent faces of said sections for urging said sections apart, a cord extending into said container and normally wound upon a roller sup-

ported upon a shaft, and means for urging said shaft into a position in which said cord will be wound thereon for holding said clip in a position in which it will hold said toilet seat cover extended across the front face of said container, said means comprising a helical spring having one of its ends attached to said shaft and the other of its ends fixedly attached to a portion of said container so that when said cord is extended said spring will be tightened upon said shaft to urge the shaft into a position in which said cord will be wound upon said roller when said cord is released.

10. A toilet seat attachment to release sanitary tissue covers, comprising a container of a size to extend over a toilet seat and having a slot in the front wall at the bottom, means for hingedly supporting said container to swing from a horizontal position on said toilet seat to a vertical position to the rear of said toilet seat, a roller for supporting a continuous web of toilet seats with the end toilet seat of the web extendible from said slot, means for feeding out said web, a clip mounted on the top of the front wall of said container for holding the top end of a web extended across the front wall of said container, means for releasing the holding action of said clip, and means for cutting the extended toilet seats off from the web, said clip comprising separate sections pivotally connected together at one of their ends, a spring operating between the adjacent faces of said sections for urging said sections apart, a cord extending into said container and normally wound upon a roller supported upon a shaft, and means for urging said shaft into a position in which said cord will be wound thereon for holding said clip in a position in which it will hold said toilet seat cover extended across the front face of said container, said means for releasing the holding action of said clip comprising a tubular member through which said cord passes and into which the pivoted end of said clip sections extend, a downwardly extending rod connected to said tubular member, and a cam for urging said rod toward the front wall of said container to move said tubular member along the outer sides of said clip sections to urge said clip sections together against the holding action of said spring to release the holding action of said clip.

11. A toilet seat attachment to release sanitary tissue covers, comprising a container of a size to extend over a toilet seat and having a slot in the front wall at the bottom, means for hingedly supporting said container to swing from a horizontal position on said toilet seat to a vertical position to the rear of said toilet seat, a roller for supporting a continuous web of toilet seats with the end toilet seat of the web extendible from said slot, means for feeding out said web, a clip mounted on the top of the front wall of said container for holding the top end of a web extended across the front wall of said container, means for releasing the holding action of said clip, and means for cutting the extended toilet seats off from the web, said latter-mentioned means comprising a fixed knife blade mounted below the extended end of said web, a movable knife blade mounted above the extended end of said web and adapted to cooperate with said fixed knife blade for cutting off an extended toilet seat cover, and means for moving said movable knife blade towards said fixed knife blade.

12. A toilet seat attachment to release sanitary tissue covers, comprising a container of a

size to extend over a toilet seat and having a slot in the front wall at the bottom, means for hingedly supporting said container to swing from a horizontal position on said toilet seat to a vertical position to the rear of said toilet seat, a roller for supporting a continuous web of toilet seats with the end toilet seat of the web extendible from said slot, means for feeding out said web, a clip mounted on the top of the front wall of said container for holding the top end of a web extended across the front wall of said container, means for releasing the holding action of said clip, and means for cutting the extended toilet seats off from the web, said latter-mentioned means comprising a fixed knife blade mounted below the extended end of said web, a movable

knife blade mounted above the extended end of said web and adapted to cooperate with said fixed knife blade for cutting off an extended toilet seat cover, and means for moving said movable knife blade towards said fixed knife blade, said means comprising a rod mounted within said container, a bell crank pivotally mounted within said container and having one of its arms attached to one of the ends of said rod and having the other of its arms pivotally attached to a portion of said movable knife blade, and means for urging said rod forward to pivot said bell crank and move said movable knife blade towards said fixed knife blade.

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