Nov. 22, 1938. L. M. HARVEY 2,137,489

PAPER TOWEL DISPENSING DEVICE

Filed May 25, 1935 3 Sheets-Sheet 1

Fig. 1.

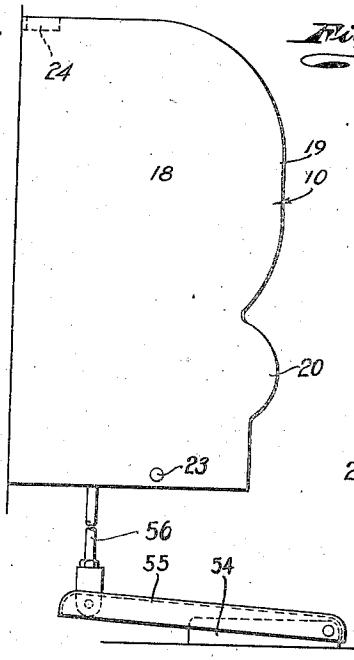


Fig. 2.

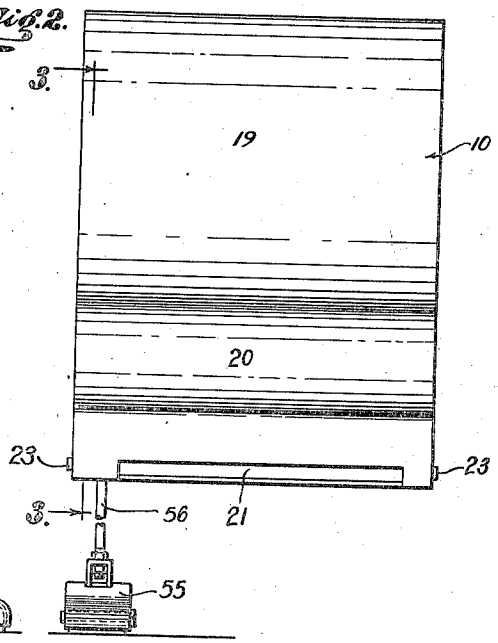
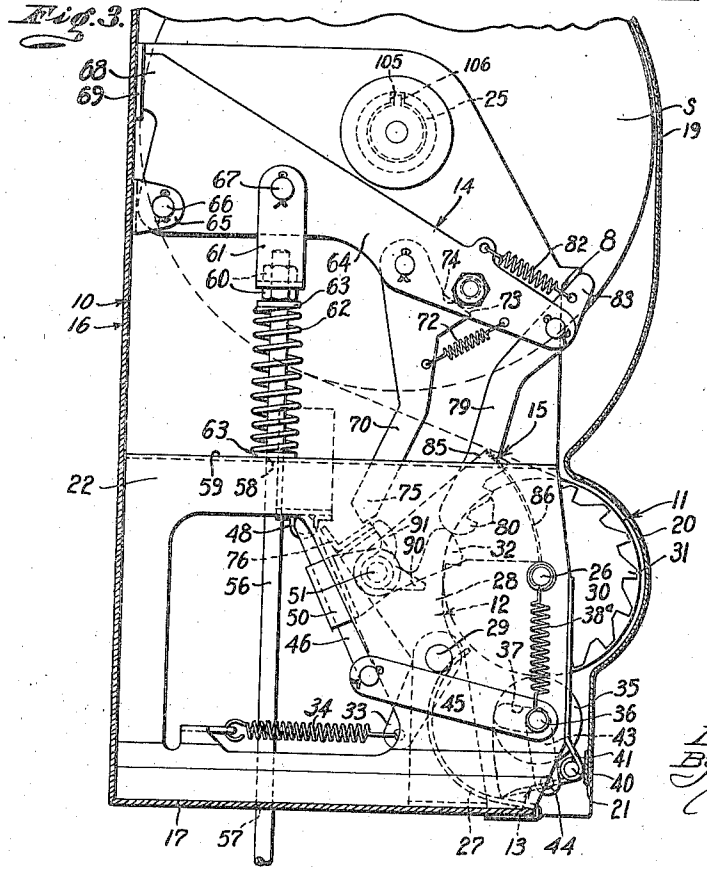


Fig. 3.

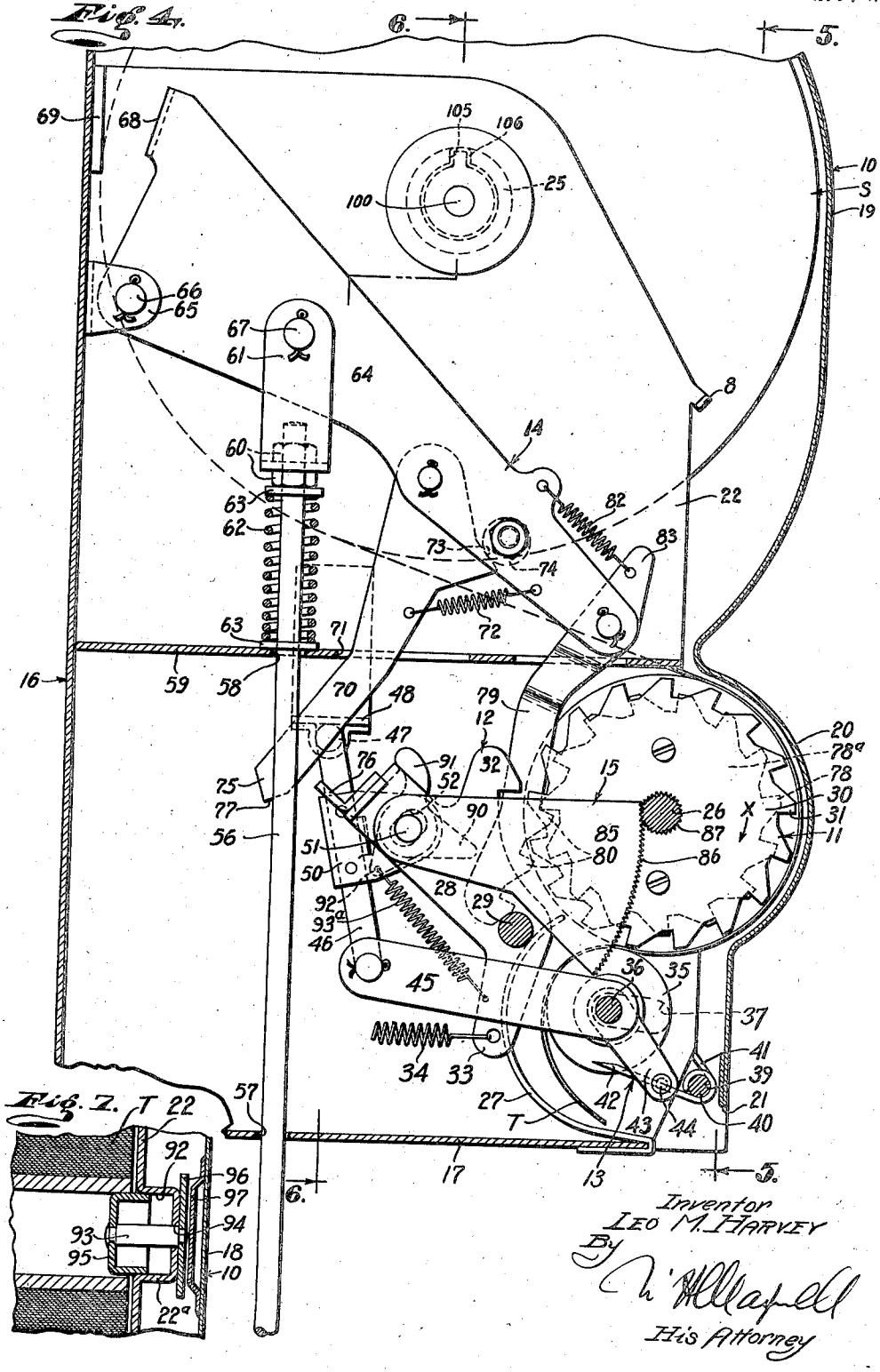


Inventor
LEO M. HARVEY
By
His Attorney

Nov. 22, 1938. L. M. HARVEY 2,137,489

PAPER TOWEL DISPENSING DEVICE

Filed May 25, 1935 3 Sheets-Sheet 2



Inventor
LEO M. HARVEY
By
His Attorney

Nov. 22, 1938. L. M. HARVEY 2,137,489

PAPER TOWEL DISPENSING DEVICE

Filed May 25, 1935 3 Sheets-Sheet 3

Fig. 5.

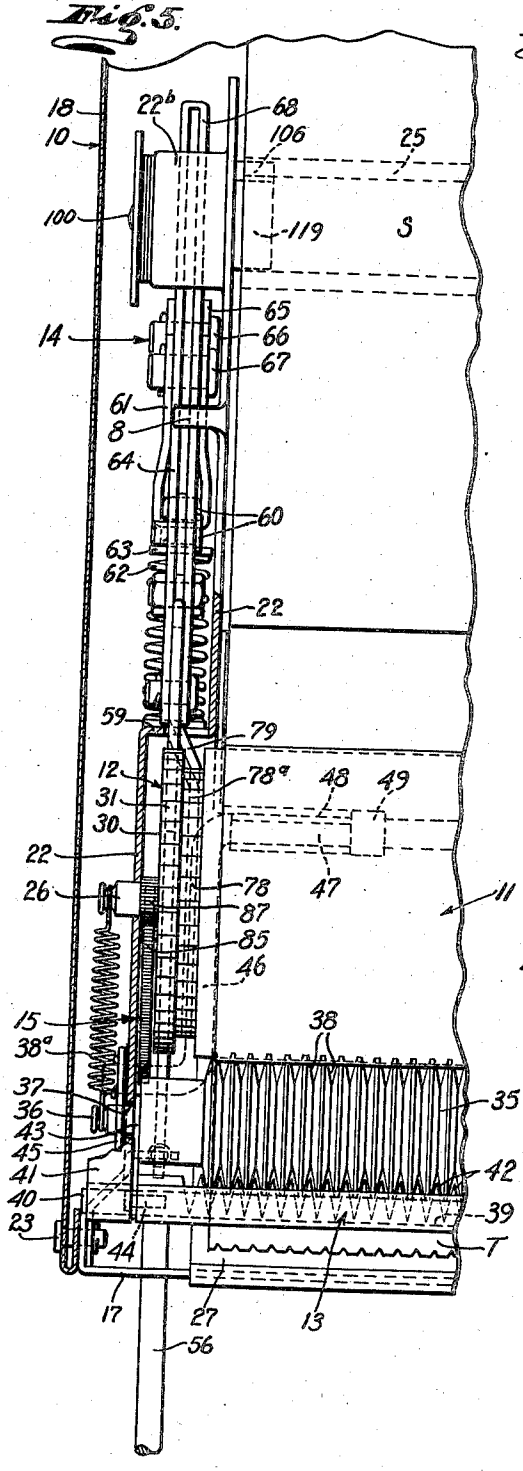
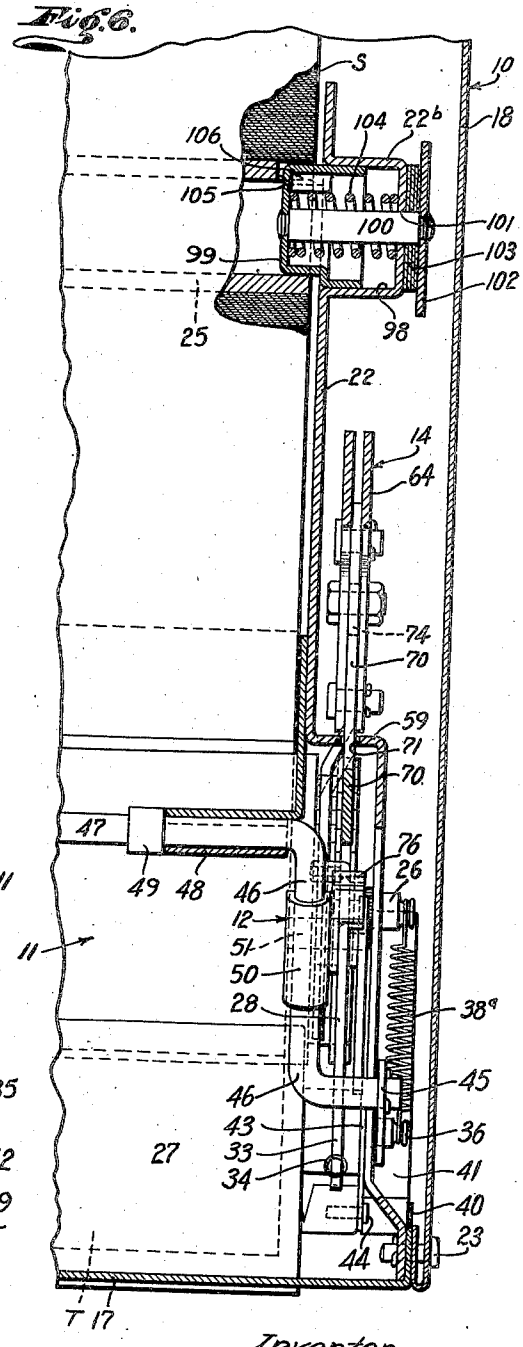


Fig. 6.



Inventor
LEO M. HARVEY
By W. Allen Hall
His Attorney

Patented Nov. 22, 1938 2,137,489

UNITED STATES PATENT OFFICE

2,137,489

PAPER TOWEL DISPENSING DEVICE

Leo M. Harvey, Los Angeles, Calif.

Application May 25, 1935, Serial No. 23,443

17 Claims. (Cl. 164—42)

This invention relates to a dispensing device and relates more particularly to a device for dispensing sheet material such as paper toweling. A general object of the invention is to provide a practical effective device for dispensing paper towels, etc., that is easy, convenient and sanitary to operate.

Many of the devices for dispensing paper toweling, etc., from rolls, involves handles, knobs, buttons, etc., that must be directly engaged by the user's hands to obtain the towels or toweling. The hands of the persons using devices of this character are often wet and the operating parts and the adjacent portions of the cabinets soon become soiled and unsanitary. Certain types of towel dispensing devices that have been introduced may be repeatedly or continuously actuated by the users without delay or interruption and the persons using such devices often withdraw amounts of toweling greatly in excess of their needs or requirements.

Another object of this invention is to provide a device for dispensing paper toweling that may be easily and conveniently operated by the user to obtain a length of toweling without engaging any part or parts of the device with his hands.

Another object of the invention is to provide a towel cabinet or device of the character mentioned that involves a pedal readily engageable and operable by the user to release the control mechanism and cause an end portion of the toweling to be projected from the case for easy engagement by the user, so that he may withdraw a length of toweling from the case.

Another object of the invention is to provide a dispensing device of the character mentioned in which the supply of toweling is normally entirely within the cabinet or case so that there is no tendency on the part of the users to attempt to withdraw the toweling without first properly operating the pedal.

Another object of the invention is to provide a paper towel dispensing device that includes a novel control mechanism that is operable to automatically limit or stop the withdrawal of toweling when a definite amount of toweling has been withdrawn and simultaneously with the stopping of the toweling actuates a knife or cutter against the toweling to facilitate the easy disconnection of the withdrawn portion of the toweling.

Another object of this invention is to provide a pedal actuated or controlled towel dispensing device that requires a definite sequence of manual acts or operations for its complete actuation, which series of acts usually deter the user from obtaining needless or excessive amounts of toweling. To operate the device of the present invention the user must first step on the pedal, the release the pedal and then withdraw the length of toweling for use. The steps or acts must be carried out in the particular order named to fully actuate the device and condition it for a succeeding operation.

A further object of the invention is to provide a dispensing device of the character mentioned that is inexpensive and compact and that is capable of being embodied in an attractive form or unit.

Another object of the invention is to provide a device of the character mentioned embodying an improved means for rotatably supporting the supply roll of toweling that maintains the toweling under the proper tension and allows the easy and quick mounting of a new or replenishing roll.

Another object of the invention is to provide a means for rotatably supporting the supply roll of toweling in a device of the character mentioned that is such that it is only capable of mounting the proper or prescribed type or make of supply roll which the device is intended to handle.

The various objects and features of my invention will be fully understood from the following detailed description of a typical preferred form and application of the invention, throughout which description reference is made to the accompanying drawings, in which:

Fig. 1 is a side elevation of the improved dispensing device of this invention. Fig. 2 is a front elevation of the device. Fig. 3 is an enlarged fragmentary vertical detailed sectional view taken substantially as indicated by line 3—3 on Fig. 2 illustrating the parts in their normal positions. Fig. 4 is an enlarged fragmentary vertical detailed sectional view similar to Fig. 3 showing the principal parts of the control mechanism in elevation in their retracted or partially actuated positions. Fig. 5 is a fragmentary vertical detailed sectional view taken substantially as indicated by line 5—5 on Fig. 4. Fig. 6 is a fragmentary vertical sectional view taken substantially as indicated by line 6—6 on Fig. 4. Fig. 7 is a fragmentary sectional view illustrating the means for supporting one end of the supply roll.

The dispensing device provided by this invention includes, generally, a case 10 for carrying a supply S of toweling T and a control for govern-

ing the withdrawal or removal of the toweling from the case comprising a roll 11 having movement governing contact with the toweling T, means 12 normally holding the roll 11 against movement and operable to stop movement of the roll, a cutter 13 operable into engagement with the toweling T, pedal operated means 14 for releasing the means 12, retracting the cutter 13 and feeding an end portion of the toweling T from the case 10, and means 15 operable upon the withdrawal of a predetermined length of toweling to release the means 12 and the cutter for operation to limit the withdrawal of the toweling and facilitate the disconnection of the withdrawn portion of toweling.

The shape and construction of the cabinet or case 10 may be varied considerably without departing from the principles of the invention. The particular case 10 illustrated in the drawings is adapted to be attached to a vertical support or wall and has a vertical back 16 and a horizontal bottom wall 17. The sides 18 of the case are joined with its front and top and are substantially vertical. The front of the case 10 has two outwardly bowed portions 19 and 20. The upper portion 19 is considerably larger than the portion 20. An opening 21 is provided in the lower forward corner of the case 10 to pass or discharge the toweling T. Substantially vertically disposed supports or plates 22 are provided in the case 10 adjacent its opposite sides 18. The plates 22 may be attached to the back 16 and the bottom wall 17.

The sides 18, the front and top of the case 10 are preferably hinged or pivoted so that it may be swung to an open position as a unit to make the interior of the case accessible for the insertion of the supply S of toweling. In the structure illustrated the shiftable front or cover portion of the case comprising the sides 18, front and top are hinged or pivoted to the plates 22 at 23. A latch or lock 24 may be provided for normally holding the forward cover portion of the case in its closed position. The towel supply S is preferably in the nature of a length of toweling T wound on a core or tubular spool 25 to form a single substantially cylindrical roll.

The invention provides novel means for rotatably supporting the supply roll S. As best shown in Fig. 7 one of the plates 22 has an outwardly bent or projecting portion 22^a providing a substantially cylindrical socket 92. A pin 93 is shiftable in a central opening 94 in the outer wall of said portion 22^a and carries a substantially cylindrical button or trunnion 95. The trunnion 95 is shiftable in the socket 92 and is adapted to partially project therefrom to extend into one end of the spool 25 to rotatably support one end of the supply roll S. A disc 96 is provided on the outer end of the pin 93 to limit the inward movement of the trunnion 95 and to permit the ready manual retraction of the trunnion into the socket 92 when the spool 25 is to be removed and a replenishing supply roll is to be arranged in the case. A stop 97 may be provided on the adjacent side 18 to normally prevent retraction of the trunnion 95 into the socket 92.

The other plate 22, as best shown in Fig. 6, has an outwardly bent or outwardly projecting portion 22^b providing an internal socket 98. A cylindrical button or trunnion 99 is shiftable in the socket 98 and is adapted to project from the inner face of the plate 22 to extend into an end of the spool 25. A pin 100 is connected with the trunnion 99 and is slidable in a central opening 101 in the outer end of the portion 22^b. A disc 102 is attached to the outer end of the pin 100 and a plurality of friction discs 103 are arranged on the pin 100 between the disc 102 and the outer face of the portion 22^b. A spring 104 is arranged under compression between the inner side of the trunnion 99 and the outer wall of the portion 22^b to urge the trunnion to its projecting operative position and to hold the friction discs 103 under compression. In accordance with the invention the proper or intended toweling is wound or provided on a spool 25 having a keyway or slot 105 in one end. A lug or key 106 is provided on the trunnion 99 to fit the slot 105 to connect the trunnion with the spool 25 for rotation therewith. It will be noted that the supply roll S of toweling to be used in the device must have a spool 25 provided with a slot 105 to receive the key 106.

When the supply roll S is to be arranged in the case 10 the cover or front portion of the case is swung to its open position. The trunnion 95 is moved to its retracted position in the socket 92 and the supply roll is moved into place between the spaced plates 22. The disc 102 is engaged and moved outwardly to retract the trunnion 99 to allow the supply roll S to be arranged in its proper place. The plain trunnion 95 may be moved to its projecting position to extend into one end of the spool 25. When the spool has been arranged in its proper place the disc 102 may be released to allow the trunnion 99 to enter the other end of the spool 25. The key 106 enters the slot 105 to connect the trunnion 99 and spool 25 for rotation. When the toweling T is withdrawn from the supply roll S, as will be hereinafter described, the trunnion 99 is made to turn with the roll due to the cooperation of the key 106 with the slot 105. The friction discs 103 yieldingly resist turning of the spool 25 and the supply roll S so that the toweling is maintained under the proper tension during the operation of the device.

The roll 11 of the control is arranged in the forward portion of the case 10 below the supply roll S. A shaft 26 projects from the opposite ends of the roll 11 and extends through openings in the plates 22 to support the roll for rotation about a horizontal axis. The forward peripheral portion of the roll 11 is received in the bowed out portion 20 of the front of the case. The toweling T leaving the lower peripheral portion of the supply roll S extends forwardly to the roll 11 and is trained downwardly and forwardly and then downwardly and rearwardly over the periphery of the roll 11. The bowed out front portion 20 aids in guiding the toweling and in retaining the toweling on the roll 11. A suitably curved guide 27 extends upwardly from the discharge opening 21 to direct or guide the toweling to the opening. The engagement of the toweling T with the roll 11 is such that the roll controls the movement and withdrawal of the toweling from the case.

The means 12 normally holds the roll 11 against rotation to prevent withdrawal of the toweling T in the event a person should reach into the case and engage the end of the toweling to withdraw the same. The principal function of the means 12 is to automatically stop the rotation of the roll 11 under the control of the means 15 when a definite length of toweling T has been withdrawn from the case. In accordance with the invention the means 12 includes

a pawl 28 pivotally supported by a pin 29 projecting from one end of the plates 22. The means 12 also includes a ratchet wheel or ratchet disc 30 on the roll 11 having teeth 31 engageable by the pawl 28. The pawl 28 is provided with a forwardly facing head or nose 32 for cooperating with the teeth 31 of the disc 30. The disc 30 may be attached to an end of the roll 11 and the active faces of its teeth 31 face in the forward direction of rotation of the roll 11 indicated by the arrow X. The nose 32 of the pawl 28 is shaped so that it is adapted to cooperate with any one of the teeth 31 to prevent or stop rotation of the roll 11 in the towel feeding or towel discharging direction. The pawl 28 is provided with a downwardly projecting arm 33 and a spring 34 is connected with the arm to urge the pawl to the position where its nose 32 cooperates with the teeth 31 of the disc 30. When the parts of the control are in their normal positions the active face of the pawl nose 32 is in engagement with a tooth 31 to hold the roll against turning.

The knife or cutter 13 is provided to move into engagement with the toweling T simultaneously with the engagement of the pawl nose 32 with a tooth 31 to facilitate the freeing or detachment of the withdrawn length of toweling. The knife or cutter 13 also aids in preventing the withdrawal of the toweling T prior to the proper operation of the pedal actuated means 14. The cutter 13 is operatively associated with a guide roll 35 which holds the toweling T in proper cooperation with the lower peripheral surface of the roll 11. The trunnions 36 of the roll 35 are rotatable and shiftable in slots 37 in the supporting plates 22. Springs 38a extend between the shaft 26 and the trunnions 36 to urge the roll 35 upwardly so that it holds the toweling T in proper cooperation with the roll 11. In accordance with the invention the periphery of the roll 35 is provided with a multiplicity of annular grooves 38. The grooves 38 are substantially V-shaped and are equally spaced throughout the active length of the roll 35.

The cutter 13 may be a substantially flat blade-like member arranged transversely or horizontally in the forward lower corner portion of the case 10 below the roll 35. The cutter 13 is supported for pivotal movement. In the particular structure illustrated in the drawings the forward edge portion of the cutter 13 is bent or rolled to have an opening 39 receiving a shaft 40. Integral hangers 41 may be provided on the plates 22 to support the shaft 40. The cutter 13 projects rearwardly or inwardly and its active inner edge is serrated or provided with a plurality of spaced V-shaped teeth 42. The teeth 42 are sharpened to their points to cut into and pierce the paper toweling T. The teeth 42 are shaped and formed to be received in the grooves 38 of the roll 35 when the cutter 13 is in its retracted position illustrated in Figs. 4 and 5 of the drawings. The cutter 13 normally projects downwardly and rearwardly directly in the path of the paper where it passes through or over the guide 27. The teeth 42 of the cutter are adapted to engage the toweling T as it passes along the surface of the guide 27 some distance inwardly from the opening 21. When the cutter 13 is in its actuated position shown in Fig. 3 of the drawings the teeth 42 face in a direction to positively prevent the further removal or withdrawal of toweling from the case. The actuated position of the cutter 13 is such that the cutter is effective in parting or cutting the toweling T when the withdrawn length of toweling is given a downward or forward pull and forms an effective barrier across the guide 27 to prevent the users from engaging the toweling in the case 10.

The cutter 13 is associated with or connected with the pawl 28 to be operated simultaneously therewith. Toggle links 43 are pivotally connected with the opposite ends of the cutters 13 at 44 and the upper ends of these links are pivoted on the trunnions 36 of the roll 35. Links 45 are pivoted on the trunnions 36 and extend rearwardly to have their rear ends pivotally connected with lever arms 46. The lever arms 46 project downwardly from the opposite ends of a horizontal shaft 47. The shaft 47 is rotatably or pivotally supported by brackets or bearings 48 on the plates 22. Collars 49 on the shaft 47 cooperate with the ends of the bearings 48 to prevent endwise movement of the shaft. The arms 46 normally project downwardly and forwardly from the opposite ends of the shaft 47 and the links 45 are normally inclined downwardly and forwardly as shown in Fig. 5 of the drawings.

A clevis 50 is attached to one of the arms 46 and its spaced parts straddle or receive the upper end portion of the pawl 28. A pin 51 carried by the clevis 50 extends through an opening 52 in the pawl to operatively connect the pawl with the lever arm 46. The opening 52 is elongated or slot-like to allow for the required relative movement between the lever arm 46 and the pawl 28. With the parts related and assembled as just described pivotal movement of the pawl 28 in the direction to release its nose 32 from the teeth 31 causes rearward swinging of the arms 46 and rearward shifting of the links 45 so that the cutter 13 is swung upwardly to the retracted position where its teeth are received in the grooves 38 in the roll 35.

The pedal operated means 14 is operable to retract the pawl 28 of the means 12 and the cutter 13 and is also operable to feed the lower end portion of the toweling T from the case 10 to be readily grasped or engaged by the user of the device. The means 14 may include a block 54 fixed or arranged on the floor below the case 10. A treadle or pedal 55 has its forward lower end pivoted to the block 54 and extends rearwardly over the block. A rod 56 is pivotally connected with the rear end of the pedal 55 and projects upwardly to extend through an opening 57 in the bottom 17 of the cabinet or case. The rod 56 extends upwardly in the case 10 at the inner side of the adjacent plate 22 and passes through an opening 58 in a horizontal step or shoulder 59 on the plate. Spaced nuts 60 secure a clevis 61 to the upper end of the rod 56. A spring 62 surrounds the rod 56 and is held under compression between the shoulder 59 and the lower nut 60. Washers 63 may be provided at the opposite ends of the spring 62. The spring 62 operates to urge the rod 56 and the pedal 55 upwardly and to return the pedal and rod after actuation.

The pedal actuated means 14 includes a lever 64 arranged within the case 10 between a side 18 and the inwardly stepped upper portion of the adjacent plate 22. A suitable bracket 65 on the back 16 of the case carries a pin 66 which pivotally supports the lever 64. A pin 67 carried by the spaced parts of the clevis 61 extends through an opening in the lever 64 to pivotally connect the rod 56 with the lever at a point spaced forwardly from the pivotal axis of

the lever. A lug 68 on the upper inner corner of the lever 64 is adapted to cooperate with a stop 69 on the back wall 16 to limit the upward movement of the lever 64, the rod 56 and the pedal 55. The stop 69 may be of deadening or shock absorbing material to reduce the shock to which the parts may be subjected in the event that the pedal 55 is suddenly released to free the spring 62 for sudden expansion.

The lever 64 projects forwardly and downwardly in the case 10 to a point above the roll 11. A finger 70 is pivoted to the lever 64 and extends downwardly therefrom to pass through an opening 71 in the shoulder 59. A spring 72 is connected with the finger 70 to urge it forwardly. A shoulder 73 on the finger 70 is adapted to cooperate with an adjustable stop 74 on the lever 64 to limit the forward pivotal movement of the finger. The lower end 75 of the finger 70 is flat to engage an angle iron or extension 76 on the upper end of the pawl 28. The lower forward corner 77 of the finger 70 is flat and bevelled to cam or ratchet past the extension 76 during the return movement of the lever 64. When a user steps upon the pedal 55 the rod 56 is moved downwardly to swing the lever 64 downwardly and rearwardly so that its finger 70 cooperates with the pawl extension 76 to release the pawl nose 32 from the teeth 31. This releasing pivotal movement of the pawl 28 is accomplished by simultaneously retracting movement of the cutter 13. Thus depression of the pedal 55 releases the roll 11 for rotation and retracts the cutter 13 out of the path of the toweling T.

The pedal actuated means 14 is operable to advance the roll 11 to feed or project the lower end portion of the toweling through the opening 21 upon the release or return of the pedal 55. A disc 78a is attached to an end of the roll 11 and is provided with a series of peripheral teeth 78. The teeth 78 face rearwardly relative to the forward or towel advancing direction of rotation of the roll 11. A rack finger 79 is pivotally connected with the forward end portion of the lever 64 and projects downwardly at the rear of the disc 78a. A plurality of spaced upwardly facing teeth 80 is provided on the forward edge of the rack finger 79 to cooperate with the teeth 78 to turn the roll 11 when the lever 64 is moved upwardly from its down or actuated position. A spring 82 may be connected between a lug 83 on the upper end of the finger 79 and the lever 64 to urge the finger 79 forwardly to bring its teeth 80 against the teeth 78. The rack finger 79 is shaped so that the teeth 80 successively come into proper advancing cooperation with the teeth 78 during the up movement or return of the lever 64. When the parts are in the normal unactuated positions the lug 83 cooperates with a stop 8 on the adjacent plate 22 to hold the rack finger 79 in a position where its teeth 80 are free of the teeth 78.

The means 15 is provided to hold the pawl 28 and the cutter 13 retracted until a definite amount or length of toweling T has been withdrawn from the case 10, whereupon it releases the pawl and cutter so that they limit or stop further withdrawing of the toweling. The means 15 includes a sector gear or sector 85 pivotally connected with the pawl 28 and adapted to cooperate with the shaft 26 of the roll 11. In practice it may be economical or desirable to pivotally support the sector 85 on the pin 51 as illustrated in the drawings. The forward curved edge of the sector 85 is roughened, serrated or provided with teeth 86. The portion of the shaft 26 engageable by the teeth 86 is knurled or provided with teeth 87. The sector 85 is mounted and proportioned to have its lower edge rest on the shaft 26 when the pawl 28 is in its operative position. Upon retraction of the pawl 28 the sector 85 is moved out of cooperation with the shaft 26 and is permitted to fall by gravity until its lower end strikes the pivot pin 29. Upon the finger 70 disengaging the pawl extension 76 the spring 34 pivots the pawl slightly forward to bring the teeth 86 of the sector into cooperation with the teeth 87 of the shaft 26. This engagement of the sector 85 with the shaft 26 latches or holds the pawl 28 in its retracted position and likewise holds the cutter 13 in its retracted position. As the roll 11 is rotated to feed the toweling outwardly and as the toweling is withdrawn from the case the cooperation of the teeth 87 with the teeth 86 causes the sector 85 to swing upwardly. When a definite length of toweling T has been withdrawn through the opening 21 the lower edge of the sector 85 passes the center of the shaft 26 and the spring 34 forces the pawl 28 forwardly moving the sector 85 to a position where its lower edge is supported on the shaft 26.

The invention includes a novel effective means for preventing the user from tampering with or improperly operating the device. A control latch or control stop 90 is pivotally supported on the pin 51 to cooperate with the finger 79 to retain the teeth 80 of the finger 79 in cooperation with the teeth 78 during the upward or return movement of the finger 79. The stop 90 projects forwardly from the pin 51 and is adapted to be engaged by the rear edge of the rack finger 79. A lug 91 on the stop 90 is adapted to cooperate with a part of the pawl 28 to limit the upward swinging of the stop. A second lug 92 is provided on the stop 90 and a spring 93a is connected with the lug 92 to yieldingly hold the stop 90 in its operative position. If the user of the device steps on the pedal 55 and while holding the pedal depressed attempts to withdraw the toweling T from the case the cooperation of the stop 90 with the finger 79 holds the teeth 80 in cooperation with the teeth 78 to prevent such withdrawal. The stop 90 cooperates with the rack finger 79 to maintain its teeth 80 in cooperation with the teeth 78 thereby gearing or operatively connecting the foot pedal 55 with the roll 11 to insure the proper initial delivery or feeding of the toweling from the case.

Operation

The various parts of the device are normally in the positions illustrated in Figs. 1, 2 and 3 of the drawings. It is to be noted that the toweling T is normally entirely enclosed within the case 10 and that the cutter 13 extends across the upper end of the opening 21 to the guide 27 to prevent any one from engaging or grasping the lower end of the toweling. To operate the dispensing device to obtain a length of toweling the user first depresses the pedal 55 with his foot to move the rod 56 downwardly. Downward movement of the rod 56 brings the lower end 75 of the finger 70 into engagement with the extension 76 to swing the pawl 28 to a position where its latch nose 32 is clear of the teeth 31. This retraction of the pawl 28 simultaneously swings the cutter 13 to its retracted position out of the path of the toweling T and disengages the sector 85 from the shaft 26 allowing the sector to fall to the position where its lower edge engages the pin 29. The sector 85

is thus stopped in a position where its forward toothed edge engages the shaft 26 to hold the pawl 28 and the cutter 13 in their retracted positions. Immediately following the depression of the pedal 55 the user removes or relieves the pressure on the pedal allowing the spring 62 to automatically return the lever 64 to its normal position. The upward or return movement of the lever 64 is, of course, accompanied by upward movement of the rack finger 79 which is urged against the teeth 76 by the spring 82. The teeth 80 ccoperate with the teeth 76 during upward movement of the finger 79 to rotate the roll 11 in the direction indicated by the arrow X and thus feed the lower end portion of the toweling T outwardly through the opening 21. The stop 90 positively holds the finger 79 in geared engagement with the roll 11 during the return of the finger. The stop 69 limits the upward movement of the rod 56 and the lever 64.

Upon the release of the pawl 28 as just described above the parts are again in their normal positions and the device is conditioned for a succeeding actuation. The user may readily obtain a definite length of toweling from the case without engaging any portion of the case with his hands, and the end portion of the toweling fed through the opening 21 upon the return of the pedal 55 is positioned so that the moist or wet hands of the persons using the device do not soil the case 10. The control mechanism provided by the invention is such that definite manual operations are required in a particular sequence for the full operation of the device. The pedal 55 must first be depressed to release the control and must then be released to provide for the feeding of the end portion of the toweling from the opening 21. The toweling thus started from the opening 21 is then grasped by the user and a definite length of toweling withdrawn from the case to recondition the device for further use. These steps or acts usually prevent the wasteful use of the toweling T.

Having described only a typical preferred form of my invention, I do not wish to limit myself to the specific details set forth, but wish to reserve to myself any changes or variations that may appear to those skilled in the art or fall within the scope of the following claims.

Having described my invention, I claim:

1. A device for dispensing sheet material including a case for holding a supply of the material and having an opening for discharging the material, a manually depressible pedal, means for automatically returning the pedal after depression, means operated by return movement of the pedal for feeding an end portion of the material through the opening to be grasped by the user for withdrawal, and means for preventing further withdrawal of the material when a definite amount of the material has been withdrawn.

2. A device for dispensing sheet material including a case for holding a supply of the material and having an opening for discharging the material, a movable member in the case having movement controlling engagement with the material, means normally holding the member against movement to prevent movement of the material, and pedal operated means for releasing said means and then moving the member to feed the end portion of the material through said opening.

3. A device for dispensing sheet material including a case for holding a supply of the material and having an opening for discharging the material, a movable member in the case having movement controlling engagement with the material, releasable means normally holding the member against movement to prevent movement of the material, means for releasing the first mentioned means to permit withdrawal of the material from the case, and means rendering the first mentioned means operative to stop movement of the member when a definite amount of the material has been withdrawn.

4. A device for dispesing sheet material including a case for holding a supply of the material and having an opening for discharging the material, a movable member in the case having movement controlling engagement with the material, releasable means normally holding the member against movement to prevent movement of the material, means for releasing the first mentioned means to permit withdrawal of the material from the case, including a pedal below the case, and means operable by the member to actuate the first mentioned means to stop movement of the member when a definite amount of material has been withdrawn.

5. A device for dispensing sheet material including a case for holding a supply of the material and having an opening for discharging the material, a movable member in the case having feeding and movement controlling engagement with the material, releasable means normally holding the member against movement, a spring-held pedal, means operable by depression of the pedal to release the releasable means, and means operable by the return of the pedal to move the member to feed the material through the opening.

6. A device for dispensing sheet material including a case for holding a supply of the material and having an opening for discharging the material, a movable member in the case having feeding and movement controlling engagement with the material, releasable means normally holding the member against movement, a spring held pedal, means operable by depression of the pedal to release the releasable means, means operable by the return of the pedal to move the member to feed an end of the material through the opening for engagement by the user, and means controlled by the member holding the releasable means in a released condition and actuated by the member when a definite amount of material has been withdrawn to free the means to stop movement of the member.

7. A device for dispensing sheet material including a case for holding a supply of the material and having an opening for discharging the material, a movable member in the case having movement controlling cooperation with the material, a cutter in the case normally in the path of withdrawal of the material, releasable normally operative means for holding the member against movement, and operating means for simultaneously retracting the cutter and releasing the releasable means to allow withdrawal of the material.

8. A device for dispensing sheet material including a case for holding a supply of the material and having an opening for discharging the material, a movable member in the case having movement controlling cooperation with the material, a cutter in the case normally in the path of withdrawal of the material, releasable normally operative means for holding the member against movement, operating means for retracting the cutter and releasing the releasable means, and means holding the releasable means in a released condition and holding the cutter retracted

until a definite length of material has been withdrawn, whereupon it frees said means to stop the withdrawal.

9. A device for dispensing sheet material including a case for holding a supply of the material and having an opening for discharging the material, a movable member in the case having movement controlling cooperation with the material, a cutter in the case normally preventing passage of the material through the opening, releasable normally operative means for holding the member against movement, and operating means for simultaneously retracting the cutter and releasing the releasable means to allow withdrawal of the material, the operating means including a pedal below the case.

10. A device for dispensing sheet material including a case for housing a supply of the material, a roll in the case having movement controlling engagement with the material, a pawl for holding the roll against movement, pedal operated means for releasing the pawl to permit withdrawal of the material, releasable means holding the pawl released, and means actuated by the roll for releasing said releasable means when a portion of the material has been withdrawn from the case.

11. A device for dispensing sheet material including a case for housing a supply of the material, a roll in the case having movement controlling engagement with the material, a pawl for holding the roll against movement, pedal operated means for releasing the pawl to permit withdrawal of the material, a cutter operable into material engaging position, a pedal, means actuated by the pedal for releasing the pawl and retracting the cutter to permit withdrawal of the material, and means holding the pawl released and the cutter retracted until a portion of the material has been withdrawn, whereupon the pawl stops the roll and the cutter contacts the material.

12. A device for dispensing sheet material including a case for housing a supply of the material, a roll in the case having movement controlling engagement with the material, a pawl for holding the roll against movement, pedal operated means for releasing the pawl to permit withdrawal of the material, a cutter operable into material engaging position, a pedal, means actuated by the pedal for releasing the pawl and retracting the cutter to permit withdrawal of the material, means operable by return of the pedal for moving the roll to feed an end portion of the material from the case for withdrawal, and means holding the pawl released and the cutter retracted until a portion of the material has been withdrawn, whereupon the pawl stops the roll and the cutter contacts the material.

13. In a device for dispensing sheet material, a roll having movement controlling engagement with the material, a pawl for stopping the roll, operating means for releasing the pawl, a cutter for engaging the the material, and a connection between the pawl and cutter whereby the cutter is retracted simultaneously with the release of the pawl.

14. In a device for dispensing sheet material, a roll guiding the material and having peripheral grooves, and a cutter having teeth and movable from a retracted position where the teeth are in the grooves to a position where the teeth engage the material.

15. In a device for dispensing sheet material, a roll having movement controlling engagement with the material, a pawl for stopping the roll, teeth on the roll, a lever, a part operable by the lever for releasing the pawl upon movement of the lever in one direction, and a rack finger on the lever for cooperating with said teeth to turn the roll and feed the material when the lever moves in the opposite direction.

16. In a device for dispensing sheet material, a roll having movement controlling engagement with the material, a pawl for stopping the roll, teeth on the roll, a lever, a part operable by the lever for releasing the pawl upon movement of the lever in one direction, a pedal depressible to move the lever in said direction, means for returning the pedal and lever, and a rack part on the lever cooperable with said teeth upon the return of the lever to move the roll and feed the material.

17. A device for dispensing sheet material comprising, a case for holding a supply of the material and having an opening through which the material may be removed, an operating part extending downwardly from the case, a pedal for operating the said part, releasable means for preventing the removal of the material released by movement of the operating part in one direction, and means operated by movement of the operating part in the other direction for feeding the material from the case.

LEO M. HARVEY.