Jan. 12, 1932. J. L. KENDALL 1,840,958

SANITARY HOLDER AND DISPENSER FOR ASEPTIC MATERIALS IN ROLLS

Filed Feb. 20, 1930

Fig. 1.

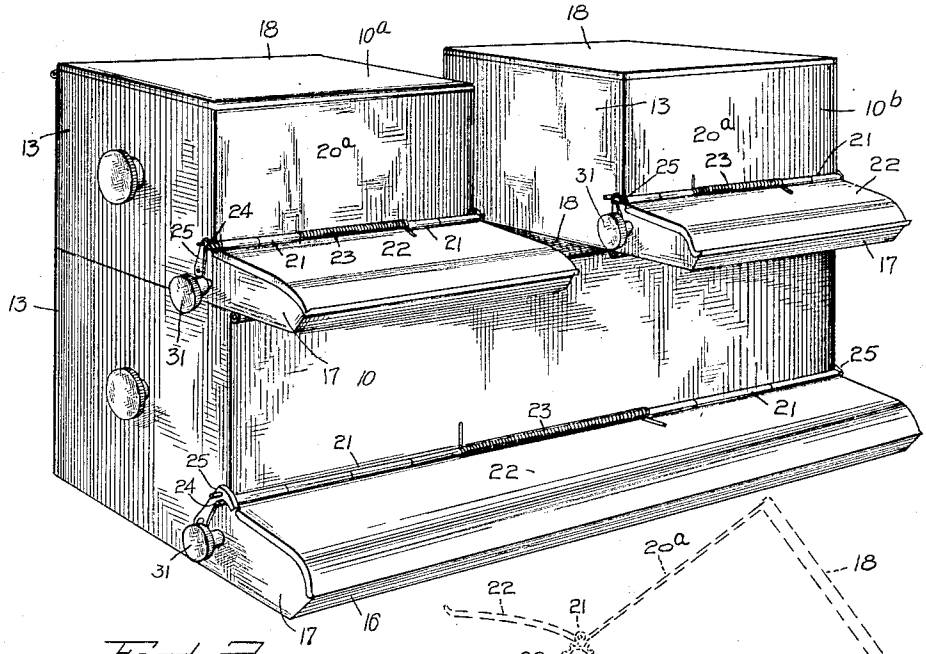


Fig. 2.

Fig. 3.

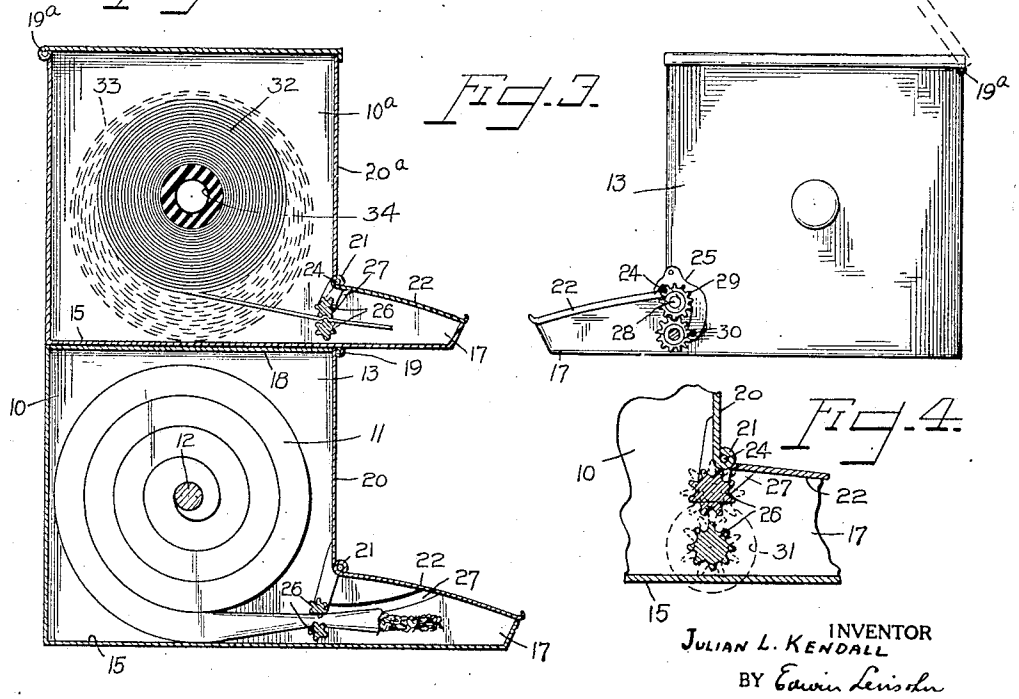


Fig. 4.

INVENTOR
JULIAN L. KENDALL
BY Edwin Lewis
ATTORNEY

Patented Jan. 12, 1932 1,840,958

UNITED STATES PATENT OFFICE

JULIAN L. KENDALL, OF MOUNT VERNON, NEW YORK

SANITARY HOLDER AND DISPENSER FOR ASEPTIC MATERIALS IN ROLLS

Application filed February 20, 1930. Serial No. 429,955.

This invention relates to a sanitary holder and means for dispensing rolls of sterilized absorbent cotton, gauze and bandage.

The invention has for its object to provide one or more units in the form of containers which are especially adapted for dispensing rolls of aseptic materials used in surgical and other cases. I accomplish this object by means of a device which not only provides a sanitary enclosure for the material but is further provided with means for dispensing the same without making it necessary to handle the rolls at any time during the procedure.

One embodiment of my invention is described in the following specification, set forth in the appended claims and illustratively exemplified in the accompanying drawings, in which, Figure 1 is a perspective view of a plurality of units set up to form a cabinet accommodating three different types of materials used for dressings and other surgical requirements; Figure 2 is a substantially vertical sectional view of the cabinet taken on lines 2—2 of Figure 1; Figure 3 is an end elevational view of one of the uppermost units showing the cover and front in raised position by means of dotted lines; and Figure 4 is a substantially transverse sectional view of the dispensing device embodied in the holder.

Referring to the drawings, 10 denotes a substantially long container adapted especially to accommodate a roll of absorbent cotton 11 which is supported upon a spindle 12 journaled at its ends in the upright end walls 13 of the container. A back wall 14 joins the end walls at its ends and projects upright from a bottom wall 15, the latter extending a considerable distance in advance of the front edges of the end walls 13 where it is turned upright to form a tray 16 which connects at its ends with projecting portions 17 of the end walls at their lower portions. The top wall 18 covers the back and end walls and is provided at its front edge with a hinge connection 19 for a front panel 20, which closes the front of the container to a point corresponding with the upper edge of the tray 16. A second hinge connection 21 is carried by the free end of the hinged front panel 20 and mounted on the connection 21 is a cover 22 for the tray 16, the cover 22 being yieldably held in closed position by a spring 23 wound about the hinge pin 24 and having its opposite ends engaging respectively the cover 22 and front panel 20, as illustratively exemplified in Figure 1. The hinge pin 24 projects beyond the opposite ends of the hinge connection to allow hooks 25 to engage thereover and secure the front panel 20 and its tray cover 22 in closed position, the latter being opened against the spring 23 to uncover the end of the cotton which has been unrolled from the roll 11.

The dispensing device consists of a pair of superimposed fluted rollers 26, the uppermost roller being carried by the front panel 20 at the ends of its hinge connection 21 with the tray cover 22, while the lower roller is journaled at its ends in the end walls 13. The upper roller at one end projects through its end wall 13 in a slot 27 which is a curved opening with the hinge connection 19 as a center. The projecting end of the upper roller is a stud shaft 28 on which is mounted a gear 29 in mesh with a similar gear 30 on the projecting shaft of the lower roller. A knurled thumb member 31 is attached to each end of the lower roller 26 so that when rotary motion is imparted to this roller a similar motion in the opposite direction will be manifest in the upper roller, which has been clamped down over the strand of the cotton 11 resting on the lower roller. As a result the cotton will either be advanced outwardly into the tray 16 or withdrawn into the container 10, depending upon the direction of rotation of the rollers 26.

I have described in detail the lower container 10 and it is believed that this description will suffice for the smaller units 10*a* and 10*b* which contain and dispense gauze 32 and bandage 33. The only difference proposed in the construction of these units is in the manner of opening up the interior for replacement of their contents. Instead of the front panel being hinged to the top wall, as described in the foregoing, I contemplate making the top wall 18*a* an integral part of the

front panel 20*a* and providing a hinge connection 19*a* for the top wall 18*a* along the upper end of the back wall 14. The container 10*a* being intended to carry gauze 32 it is found efficient to support the latter on a rubber spindle 34, while the bandage 33 is merely placed within its container lob and dispensed without requiring a supporting medium.

In some cases the containers may be modified to hinge one of the end walls 13 at its lower end in order to provide access to the interior of the container for refilling purposes.

In operation, the rolled material at its end is placed between the rollers 26 and when a portion is needed the rollers 26 are rotated to advance the material into the tray 16. The cover 22 is lifted and by means of the usual instruments the cotton is severed and removed from the tray without exposing the remaining portion of the material.

While in the description rollers 26 have been referred to as fluted rollers, it is to be understood that for dispensing such substances as for example gauze cylindrical rubber rollers may be employed with equal advantage.

What I claim and desire to secure by Letters Patent is:

1. A container and dispenser for rolled materials of the character described, comprising a box like receptacle having enclosing walls, one of which comprises a double hinged section to simultaneously open the front and top of the receptacle, a projection for the receptacle forming a tray to receive the material unwound from the roll and being covered by one of the hinged portions of the double hinged wall, and a pair of rollers, one thereof being carried by the double hinged wall and the other being mounted in the end walls of the receptacle beneath the first roller to carry the material which is embraced by both rollers and advanced by rotary motion thereof.

2. A container and dispenser, as claimed in claim 1, in which the hinge connection between the two portions of the double section is provided with a spring element to urge the one portion to closed position over the tray.

3. A container and dispenser, as claimed in claim 1, in which the rollers for advancing the material into the tray are provided with end shafts projecting outside of the receptacle, gears for the shafts which mesh when the double hinged section is in closed position, and a thumb nut for the end of one of the shafts, whereby rotary motion may be imparted to the rollers to advance the material.

4. A container and dispenser, as claimed in claim 1, including means for engaging the intermediate hinged connection of the said section to lock the latter in closed position relative to the other sections.

5. A plurality of container units for dispensing materials from rolls, each thereof comprising a receptacle having stationary bottom, end and back walls, an integral front and top wall hinged to the top end of the back wall, the front wall being short of the bottom wall and having a spring hinge connection at its free end, a cover carried by said connection, a forward projection of the end and bottom walls forming a tray to receive material from the roll, and to be closed by said cover, fluted rollers carried by the front wall and end walls and adapted to embrace opposite sides of the material being unrolled into the tray, means for locking the front wall in closed position, and means for rotating the fluted rollers from outside the receptacle.

In testimony whereof I have affixed my signature.

JULIAN L. KENDALL.