Feb. 28, 1933. G. C. DEANE 1,899,796

COMBINED SPOOL AND CONTAINER

Filed March 5, 1931

Fig. 1.

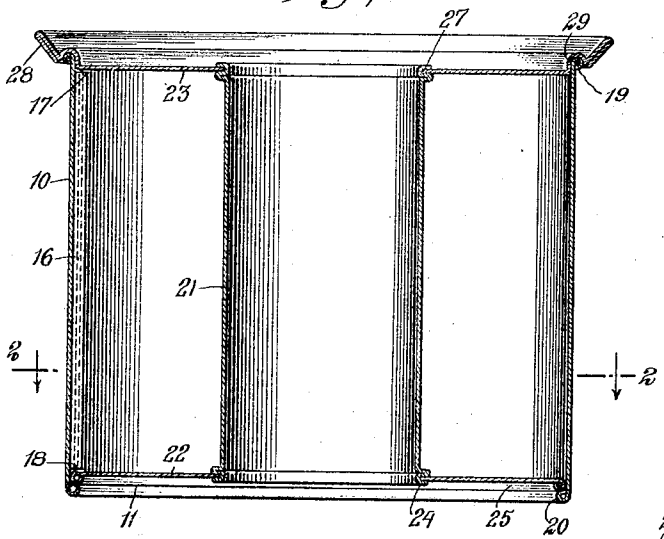
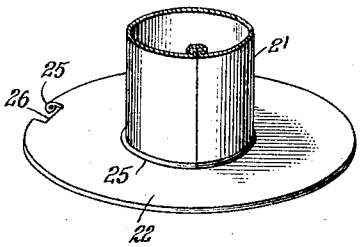


Fig. 2.

Fig. 4.



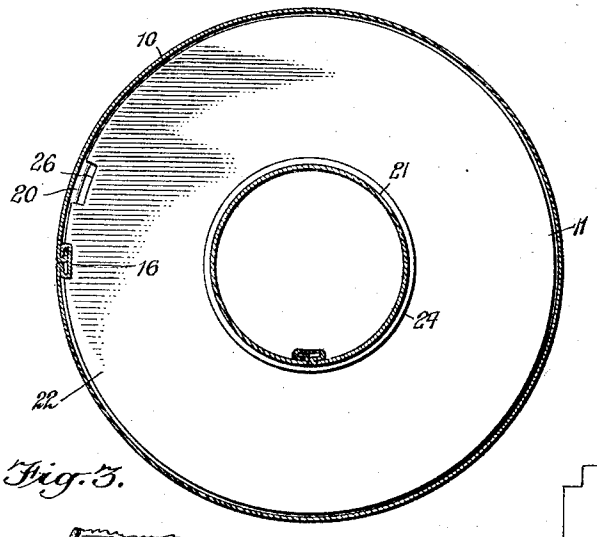


Fig. 3.

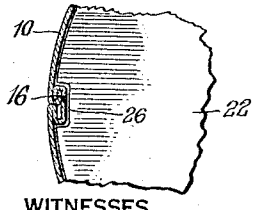
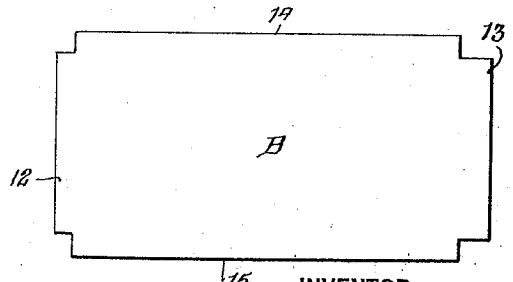


Fig. 5.



WITNESSES

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Patented Feb. 28, 1933 1,899,796

UNITED STATES PATENT OFFICE

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COMBINED SPOOL AND CONTAINER

Application filed March 5, 1931. Serial No. 520,365.

The invention relates to a new article of manufacture in the form of a combined container and holder or spool, for a vendible product, such as adhesive plaster, and other material to be sold in wound condition.

The invention consists in an article of the indicated character, which, in point of construction, is well suited for economic manufacture, and also of efficient and substantial design to meet the demands of packing and delivery on the part of merchants, and the requirement for convenience in using the material on the part of the consumer or user.

The invention also has for its object the provision of an article of the indicated character which embodies novel and improved features whereby a material holding section or spool may be received and enclosed or sealed within a container section to preserve the good condition of the contents of the article until wanted.

Another object of the invention is the provision of a combination container and material retaining holder or spool, and means for detachably retaining the holder or spool associated with the container within the latter for the other aforesaid purposes; the holder or spool being retained associated with its container against unintentional separation yet capable of intentional separation by a simple operation on the part of the user.

With the foregoing, other objects of the invention will appear from the embodiment of the invention which by way of example is described in the following specification and illustrated in the accompanying drawing, in which

Figure 1 is a central section through the container and holder;

Figure 2 is a section on the line 2—2 of Figure 1;

Figure 3 is a fragmentary section showing portions of the container and holder with the notched flange of the latter in registry with the rib or key of the former;

Figure 4 is a perspective view showing the notched flange and a portion of the core of the holder;

Figure 5 is a view of a blank used for forming the container.

Referring now to the drawing it will be apparent that the article of the present invention consists of two main parts or sections, a container section 10 and a material holding section 11. The container section 10 is of tubular formation, open at each end. The container section 10 is made preferably of sheet metal. Use is made of a blank B, shown in Fig. 5, to form the container section 10. This blank B is of suitable length and width to form a container section of the proper size. The blank B is cut out at the four corners to provide opposite side edges 12 and 13, which are shorter in length than the width of the blank, and top and bottom edges 14 and 15, respectively. The blank B is formed into a tubular body, round in cross section, and the edges 12 and 13 are brought together to form a seam on the inside of the body according to known methods of manufacture. The formation of this seam provides a rib or key 16 extending longitudinally of the container section 10 on the inside thereof and terminating at its opposite ends short of the ends of the container section thereby providing shoulders 17 and 18 for a purpose to appear hereinafter. The edge 14 of the blank B is rolled to provide a bead 19 on the outside of the entrance end of the container section 10. The edge 15 of the blank B is rolled to provide a bead 20 on the inside of the bottom end of the container section 10.

The material holding section 11 is in the form of a spool and consists of a core 21 and circular end or flanged members 22 and 23. The member 22 is secured to one end of the core 21 in any practical manner such as by crimping the end of the core in engagement with the member 22 as at 24. The outer circumferential edge of the member 22 is rolled

to provide a bead 25. The member 22 has a notch 26 in the marginal edge thereof of a size to accommodate the rib or key 16. The member 23 is secured to the opposite end of the core 21 and this is accomplished by crimping the end of the core in engagement with the member 23 as at 27. The outer circumferential edge of the member 23 is bent back upon itself as at 28 to eliminate sharp edges and to strengthen or reinforce the circumferential edge of the member 23. The member 23 is also provided with a circular channel 29 which provides a corresponding groove to accommodate the bead 19 on the entrance end of the container section 10. It will be apparent that the end member 22 is of a diameter to fit within the container section 10, and that the end member 23 is larger in diameter than the diameter of the container section 10 and will provide a projecting circumferential edge when the holding section or spool 11 is associated with the container section 10 within the same.

From the foregoing it will be apparent that the holding section or spool 11 may be placed within the container section 10 by grasping the circumferential edge of the end member 23 of the spool. By bringing the notch 26 in the end member 22 of the spool in registry with the rib or key 16 the spool may be pushed or slid into the container section 10. By imparting turning movement to the spool 11 the notch 26 in the end member 22 may be brought to a position out of registration with the rib or key 16, and the shoulder 18 provided by the rib or key will engage the end member 22 and retain the spool 11 within the container section 10. It will therefore be understood that the rib or key 16 and the notched end member 22 of the spool 11 constitute coacting means to detachably retain the spool 11, associated with the container section 10, subject to the relative movement of the sections 10 and 11 to detach one from the other, or, in other words, to separate the spool 11 from the container section 10.

When the spool 11 is arranged within the container section 10, the end members 22 and 23 serve as closures for the opposite ends of the container section 10. The bead 25 of the end member 22 will be in contact with the bead 20 of the container section, and the channel 29 of the end member 23 will be in contact with the bead 19 of the container section. It will therefore be understood that the contents or, in other words, the material arranged on the core 21 of the spool will be sealed within the container section and be protected from dust and the deteriorating effect of air.

In order to separate the spool 11 from the container section 10, it is merely necessary to grasp the marginal edge of the end member 23, and then impart turning movement to bring the notch 26 in the end member 22 in registration with the rib or key 16, whereupon the spool may be withdrawn from the container section 10 by exerting a pull thereon.

I claim:

1. A new article of manufacture comprising the combination of a container section, a material holding section, said container section having a rib on the inside thereof extending between the opposite ends thereof, and said holding section having a notched member which co-operates with said rib to detachably retain said holding section associated with the container section subject to the application of turning movement and an outward pulling force on the holding section to detach it from the container section.

2. A new article of manufacture comprising the combination of a container section constructed of sheet material and being round in cross section, and open at the opposite ends, and its side wall having a seam which projects inwardly of the container section, and a material holding section having a notched member which co-operates with said seam to detachably retain said holding section associated with the container section subject to the application of turning movement and an outward pulling force on the holding section to detach it from the container section.

3. A new article of manufacture comprising the combination of a tubular body, and a material holder adapted to fit within said body, said body having a key, said holder having a notched member which accommodates said key to enable said holder to be placed within said body and which key may be engaged with said notched member by turning the holder in relation to said body to detachably retain said holder associated with the body within the same.

4. A new article of manufacture comprising the combination of a tubular body, and a material holder adapted to fit within said body, said body having an inwardly disposed projection made from the material of the body, said holder having a notched member which accommodates said projection to enable said holder to be placed within said body and which projection may be engaged with said notched member by turning the holder in relation to said body to detachably retain said holder associated with the body within the same.

5. A new article of manufacture comprising the combination of a tubular body having an inturned stop means on one end thereof, a material holder adapted to be arranged within said body, said holder having end members, one end member fitting within said body and forming a sealing fit with said stop and the other end member being engageable.

with the entrance end edge of said body and forming a sealing fit therewith, said body having a projection on the inside thereof, and one of said end members being notched to accommodate said projection to enable the holder to be inserted in the body, and the edge of the notched end member being engageable with said projection to detachably retain the holder within said body.

GERARD CHARLEMAGNE DEANE.