

April 9, 1935.

A. J. MORSE ET AL

1,997,426

THREAD PACKAGE

Filed July 12, 1934

2 Sheets-Sheet 1

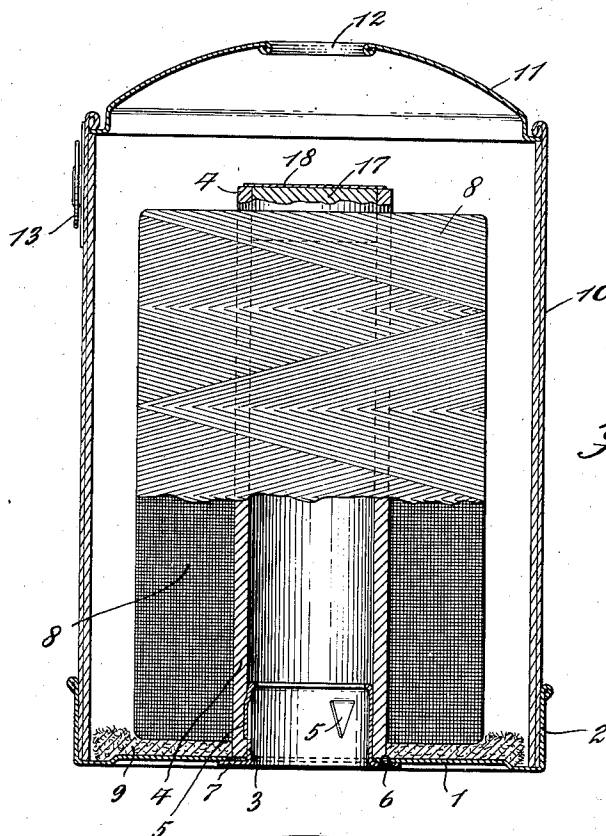


Fig. 1.

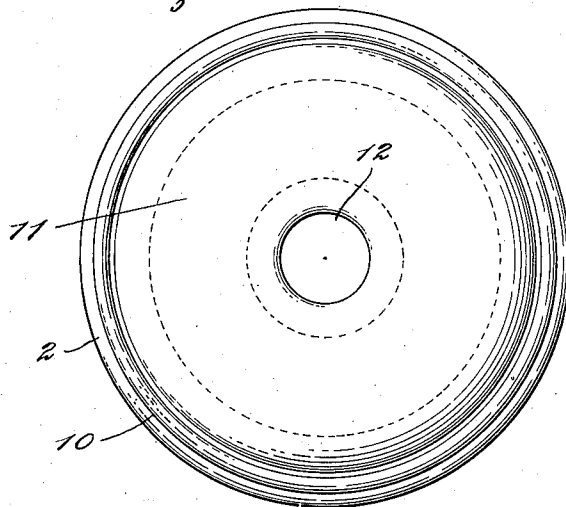


Fig. 2.

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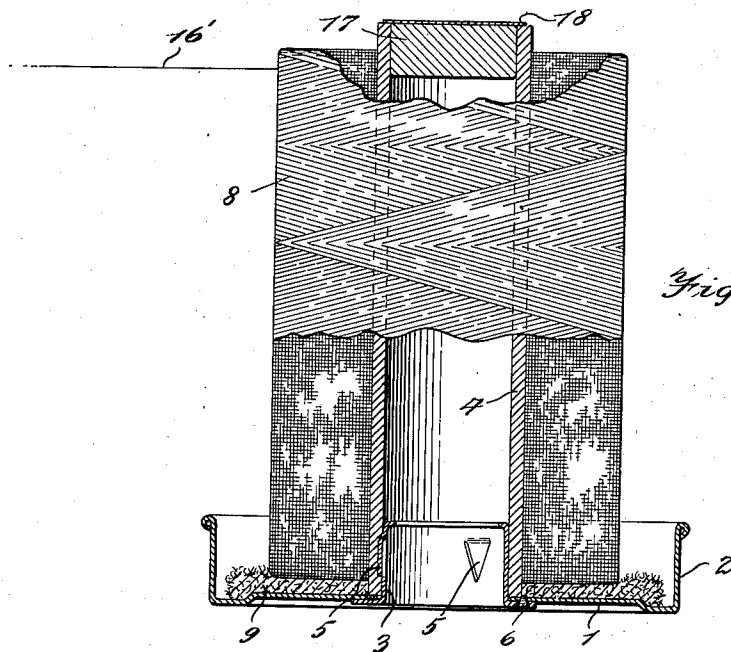
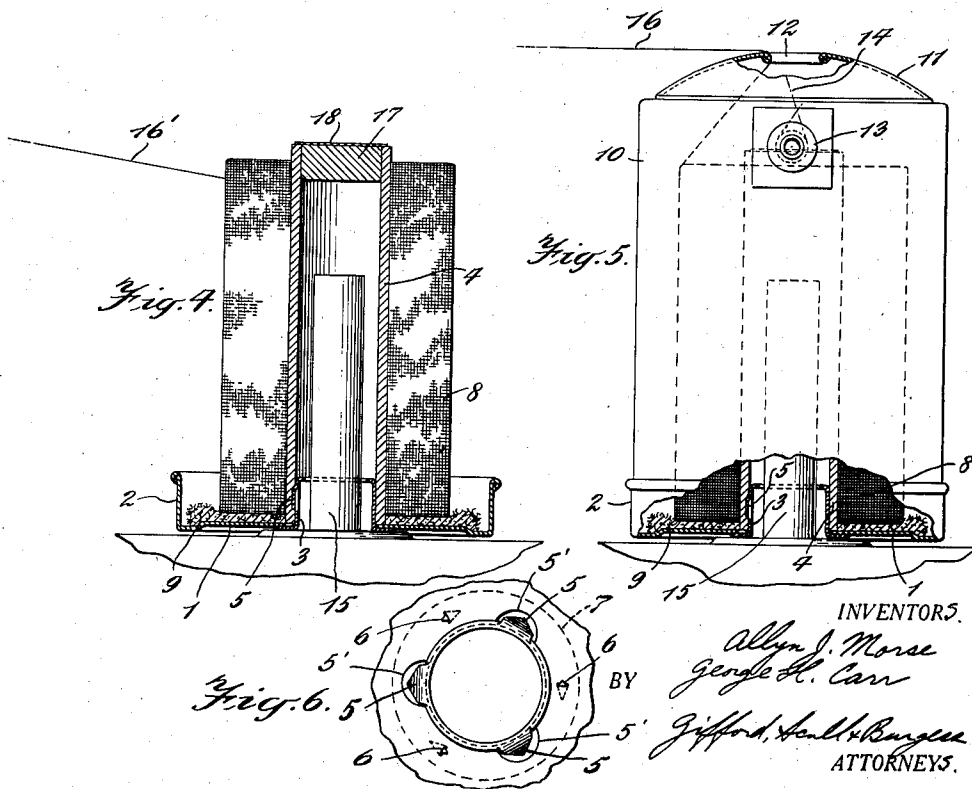


Fig. 3.



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UNITED STATES PATENT OFFICE

1,997,426

THREAD PACKAGE

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Application July 12, 1934, Serial No. 734,724

2 Claims. (Cl. 242-130)

This invention relates to a novel and improved form of thread package, the novel features of which will be best understood from the following description and the annexed drawings, in which we have shown a selected embodiment of the invention and in which:

Fig. 1 is a view, partly in section and partly in elevation, and showing one form which the invention may take;

Fig. 2 is a top view of the structure shown in Fig. 1;

Fig. 3 is a view similar to Fig. 1 but showing the cover removed;

Fig. 4 is a view similar to Fig. 3 but on a smaller scale and showing how the package may be used on a thread stand when the cover is removed;

Fig. 5 is a view similar to Fig. 4 but showing how the package may be used on a thread stand with the cover in place.

Fig. 6 is a plan view of the central portion of the base.

In the illustrated embodiment, we have shown the invention as embodied in a package having a substantially flat base 1, which may be of any form of sheet material, such as sheet metal, and which has a circumferentially extending flange 2 formed in one piece therewith and extending upwardly therefrom. The flange terminates at its upper edge in a smooth, outwardly extending portion, here shown as formed by a bead in which the metal of the flange is bent outwardly. The base may likewise be provided with a central hole in which is secured a center 3, which may likewise be formed of sheet metal and which extends upwardly above the base to receive a core 4 which, in this form, is tubular and which surrounds the center 3. The center may be provided with outwardly extending tongues 5 which are embedded in the material of the core 4, which will usually be cardboard or some other soft material in which the tongues may be forced to secure the core to the base. The center may be secured to the base by any suitable means, here shown as upwardly extending tongues 6, which are struck out from the material of the center and pass through holes in the base, it being seen that these tongues are formed in an outwardly extending flange 7 formed integral with the rest of the center.

The center may be assembled with the base by passing it through a hole in the base, which hole is provided with recesses 5', as best shown in Fig. 6, and through which the tongues 5 may freely pass. The tongues 6 may be forced through the metal of the base and turned over, as also best indicated in Fig. 6.

The core 4 in practice will be provided with a tube 8 of thread which may be wound thereon or otherwise placed around the core in any desired manner. Preferably, a soft felt cushion 9 is disposed between the base and the bottom of the tube of thread.

The package likewise may include a cover formed of a vertically extending cylindrical wall 10 adapted to closely fit against the flange 2, in this instance the wall fitting closely within that flange. The cover may likewise comprise a top 11 having a centrally disposed opening 12 therein through which thread from the tube 8 may be led. This opening 12 is provided with a smooth edge as indicated particularly in Fig. 1, so as to prevent damage to the thread as it may be drawn through that opening. In one form of the invention we make the wall 10 of cardboard and the top 11 of metal which may be spun under, around the opening 12, in order to provide the smooth surface shown. The wall 10 and the top 11 may be secured together by any suitable means, which it is not deemed necessary to describe here.

The package described above has numerous advantages, most of which will be evident to those skilled in the art and which will probably be best comprehended from a brief description of the manner in which the package may be used.

Referring now to Figs. 3, 4, and 5, we have shown therein three different conditions under which the package may be used in practice. It is to be understood that the package is in the form shown in Figs. 1, 2, and 5 when it leaves the manufacturer. A tube of thread is present on the core 4, and it will be seen that there is a substantial space between the outer surface of this tube and the flange 2 as well as the wall 10. The thread end may be led out through the opening 12 and fastened under the thread fastener 13 as indicated at 14 in Fig. 5.

If desired, the entire package may be placed upon a thread stand indicated generally at 15 in Figs. 4 and 5. The end 14 of the thread may be unwound from the fastener 13 and then the thread may be led directly to the machine on which it is to be used, the thread then occupying some such position as shown at 16 in Fig. 5.

It sometimes happens that when the thread is being drawn off from a tube, it will balloon out from the tube, and it will be seen that with the form of package herein disclosed there is plenty of room for that ballooning to be taken care of between the tube and the wall 10. The dome-shaped top, together with the central opening therein, will act to guide the thread in a uniform

manner and to provide a uniform drag or tension thereon. This uniform tension is of importance as an aid in obtaining uniform seams in any material which is being sewed with the thread.

If desired, the cover may be removed, as shown in Figs. 3 and 4, and the package may then be used either with a thread stand, as shown in Fig. 4, or without a thread stand, as shown in Fig. 3, in either of which positions the thread may leave the tube as indicated at 16', the package usually rotating as the thread is withdrawn. If the package is thus used without the cover, it will be seen that the flange 2 provides a cup-shape arrangement of sufficient depth and sufficiently spaced away from the outer surface of the thread tube so that any collection of thread which may be sloughed off the tube itself may collect between the tube and the flange and thus avoid waste, soiling, and tangling thereof. The bead on the top edge of the flange 2 forms a smooth guide for any thread which may come in contact therewith during the time when thread is being pulled off from the tube.

The package may be easily shipped without damage to the thread in the tube, and the wall 10 may be used as a convenient place on which to place identifying marks of any kind, in order to designate the character of thread on the tube as well as the manufacturer's name. Similarly, the tubular core 4 may be closed with a plug 17 on which may be placed a paster 18 having identifying characters thereon. While we have not shown such a construction, nevertheless it will be understood that the opening 2 may also be covered when the package is not in use.

While we have pointed out above some of the more outstanding advantages of the construction we have illustrated and described, nevertheless we

believe it obvious that other advantages will be apparent to those skilled in the art. While we have shown and described one embodiment in considerable detail, it will be understood that various changes may be made by those skilled in the art without departure from our invention, and therefore we do not intend to limit ourselves except by the appended claims.

We claim:

1. A thread package comprising a substantially flat base formed of sheet material having a centrally disposed hole therein and having an upwardly extending peripheral flange integral with the base, said flange having an outwardly extending smooth upper edge, a cover having a vertically extending wall slidably fitting closely within said flange to be frictionally held to said base, a tubular core secured to said base and extending upwardly therefrom coaxially with said hole, whereby a thread stand may pass through said hole and be received within said core, said cover having an opening therein through which thread supported on said core may be led.

2. A thread package comprising a base having a tubular core extending upwardly therefrom and adapted to be received upon a thread stand and likewise adapted to receive a tube of thread thereon, a cover detachably secured to said base and having a dome-shaped top extending over the top of said core and of the thread tube thereon, said top being made of sheet material and having a circular opening disposed substantially coaxially with said core, said opening having a rounded edge and being free of obstructions, whereby thread from the tube may pass freely through the opening and be led in any direction after passing therethrough.

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