Aug. 7, 1956 G. B. JOHNSON 2,757,451

THREAD CUTTER AND HOLDER

Filed Aug. 17, 1954

FIG. 1

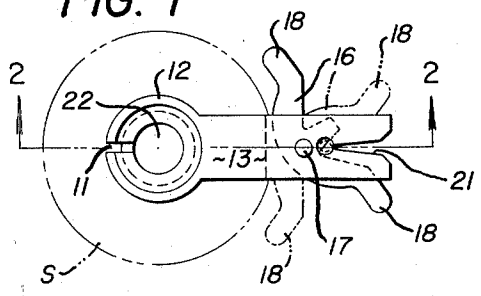


FIG. 2

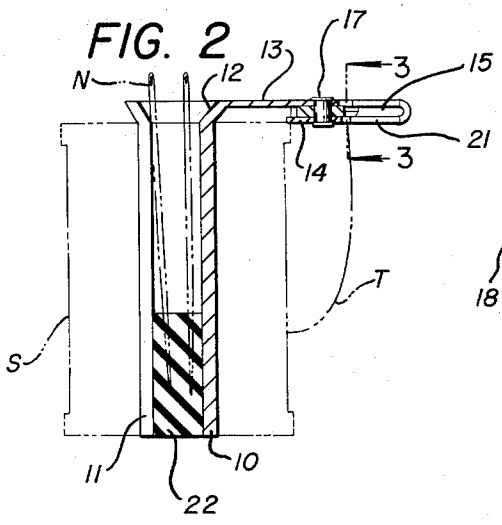


FIG. 3

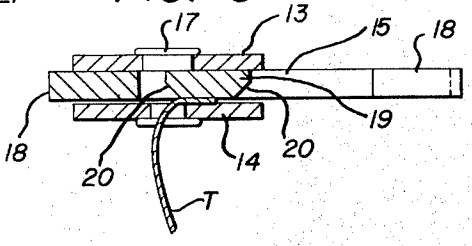


FIG. 4

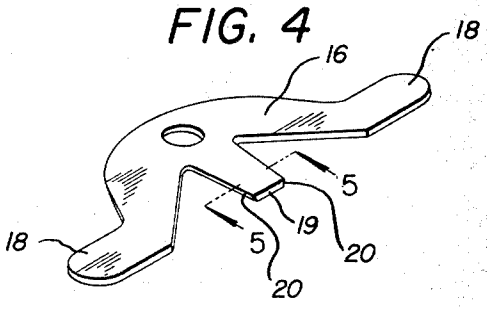
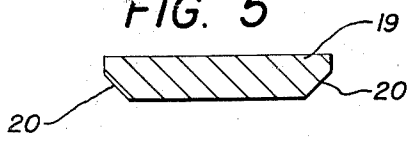


FIG. 5



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THREAD CUTTER AND HOLDER

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1 Claim. (Cl. 30—126)

This invention relates to a thread cutter and holder for detachable assembly to a spool of thread.

The principal object of the invention is the provision of a thread cutting and holding device which may be secured on a spool of thread and acts to cut and hold the end of the thread on the spool.

A further object of the invention is the provision of a thread cutter and holder having a cylindrical extension engageable with the axial opening in a spool of thread.

A still further object of the invention is the provision of a thread cutter and holder having a section of resilient material for receiving and holding needles.

A still further object of the invention is the provision of a thread cutter and holder of simple and inexpensive design and attractive appearance.

The thread cutter and holder disclosed herein comprises a combination cutting and holding device adapted to be secured to a spool of thread so that the free end of the thread on the spool may be passed through an appropriate portion of the thread cutting and holding device and cut, and the free end subsequently held by the device until manually removed therefrom.

The operative portions of the thread cutting and holding device are so arranged that they initially cut the thread and then secure the end of the thread remaining on the spool so that the same is prevented from accidentally becoming unwound from the spool and is always readily available for subsequent use.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being the intention to cover all changes and modifications of the example of the invention herein chosen for purposes of the disclosure, which do not constitute departures from the spirit and scope of the invention.

The invention is illustrated in the accompanying drawing, wherein:

Figure 1 is a top plan view of the thread cutting and holding device with broken lines indicating a spool of thread and an alternate position of the cutter of the thread cutting and holding device.

Figure 2 is a vertical section through the thread cutting and holding device taken on line 2—2 of Figure 1. Broken lines indicate the spool of thread and the free end of the thread therefrom.

Figure 3 is an enlarged detailed vertical section in cross section taken on line 3—3 of Figure 2.

Figure 4 is a perspective view of the cutter used in the thread cuttter and holder.

Figure 5 is an enlarged vertical section taken on line 5—5 of Figure 4.

By referring to the drawing and Figures 1 and 2 in particular it will be seen that a broken line representation of a spool of thread S is illustrated with a longitudinally split cylindrical member 10 positioned in the axial opening of the spool of thread S. The longitudinally split cylindrical member 10 is normally of slightly greater outer diameter than the inner diameter of the axial opening in the spool of thread S so that it is retained therein by a frictional contact until manually removed therefrom.

The longitudinal split in the cylindrical member 10 is indicated by the numeral 11 and the uppermost end of the longitudinally split cylindrical member 10 is formed with a semi-annular angularly positioned collar 12 having a sidewardly extending elongated section 13 integrally formed therewith and extending outwardly beyond the side of the spool of thread S and bent backwardly upon itself as best shown in Figure 2 of the drawings. The backwardly bent portion is indicated by the numeral 14 and forms a horizontal chamber 15 in which a cutter 16 is pivotally mounted by means of a rivet 17.

Enlarged and cross sectional details of the cutter 16 may be seen in Figures 3 and 4 of the drawings and by referring thereto it will be observed that the cutter 16 includes oppositely disposed arms 18—18 and a centrally positioned knife 19. The knife 19 extends sidewardly from the pivot area of the cutter 16 and its opposite sides are tapered downwardly and inwardly as at 20—20.

Figure 5 of the drawings illustrates in enlarged cross sectional elevation the conformation of the knife 19. It will thus be seen that the cutter 16 is positioned in the extension 13 and within the horizontal chamber 15 formed by the doubled end section of the extension 13.

By referring again to Figures 1 and 2 of the drawings it will be observed that the doubled end portion of the extension 13 is slotted inwardly from the outer end thereof, the slot being indicated by the numeral 21 and forming a semi-V shape when viewed in top plan view as in Figure 1 of the drawings with an enlarged semi-annular inner opening adjacent the rivet 17 which pivots the cutter 16 in the device.

The inner end of the slot 21 is in a position in which the knife 19 will pass when the arms 18 of the cutter 16 are moved, as also illustrated in Figure 1 of the drawings in broken lines.

By referring now to Figure 1 of the drawings it will be seen that when the cutter 16 is in the position shown in broken lines, the end of the thread on the spool S may be manually positioned therein, as shown in Figure 2 of the drawings, and the cutter 16 then moved to the position shown in solid lines in Figure 1 with the resulting action that the knife 19 cuts the thread and then holds the end thereof leading to the spool S by reason of the action of the tapered sides 20 thereof wedging the end of the thread against the inturned portion 14 of the extension 13, as best shown in enlarged cross sectional detail in Figure 3 of the drawings.

It will thus be seen that the thread, indicated by the letter T, is secured against accidental unwinding from the spool S and it can be removed from secured position when a further length of thread is to be removed from the spool and the operation repeated.

It will thus be seen that the device functions to keep the spool of thread in neat and orderly fashion, that the end of the thread on the spool is conveniently held for subsequent use and that it may be readily grasped by the fingers of the user, disengaged from the device and repositioned in the slot 21 and a subsequent section cut therefrom with the resulting action that the end of the thread remaining on the spool is again held by the device.

By referring now to Figure 2 of the drawings it will be seen that the lower central portion of the split cylindrical member 10 of the device is provided with a resilient body member 22, for example rubber, which is self-retaining

in the position illustrated and which acts to hold needles, such as those indicated in broken lines and indicated by the letter N, in convenient and protected position in the device.

It will thus be seen that the thread cutting and holding device disclosed herein meets the several objects of the invention.

Having thus described my invention, what I claim is:

A thread cutting and holding device for attachment to a spool of thread comprising a cylindrical member engageable with an axial opening in said spool of thread, one end of said cylindrical member having a conical flange thereon with a sideward extension extending outwardly beyond the side of the spool of thread and doubled backwardly upon itself to form a horizontal chamber open at its sides, a flat member pivotally mounted midway between its ends in said horizontal chamber, said extension being slotted inwardly from its outer end and in the area of said horizontal chamber, a sideward projection on said flat member having oppositely disposed knife like edges movable across said slot in said horizontal chamber, oppositely disposed arms on said flat member extending outwardly beyond the sides of said extension and said knife like edges being tapered so that the same act first to cut the thread positioned in said slot and secondly to hold the thread by wedging action between said projection and said extension.

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