July 29, 1947. L. SCHARF ET AL 2,424,774

DOUBLE TIE ADAPTER FOR YARN

Filed Aug. 29, 1945

FIG. 1.

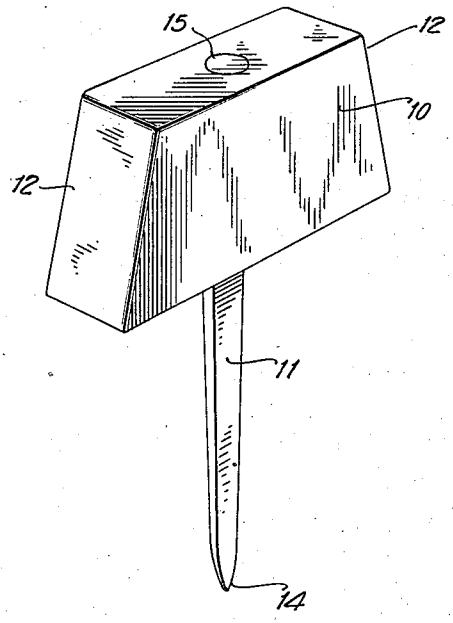


FIG. 3.

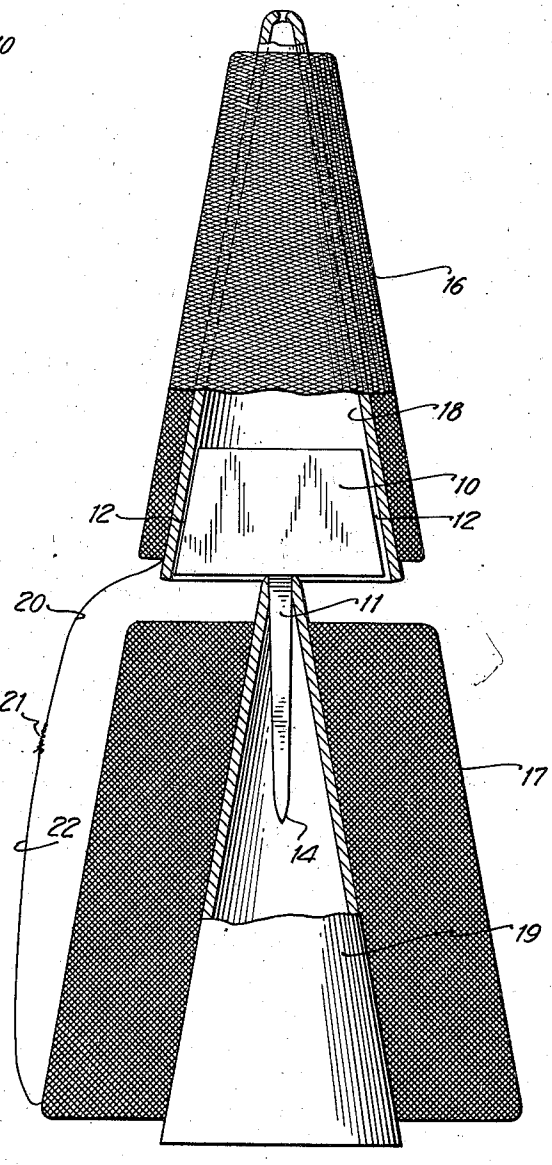
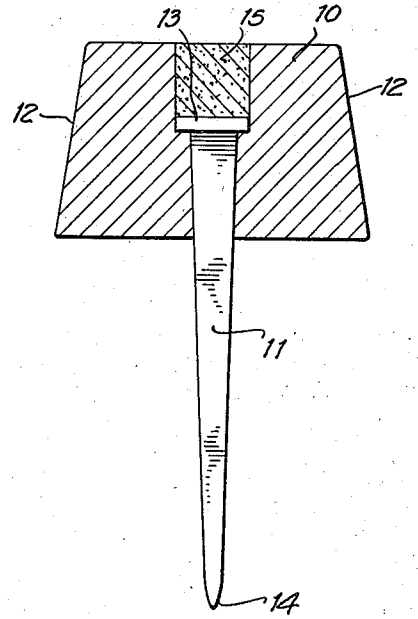


FIG. 2.



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DOUBLE TIE ADAPTER FOR YARN

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1 Claim. (Cl. 242—130)

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This invention relates to a device which is designed and adapted to support bobbins, one on top of another, so that the yarn or thread of the bobbins may be interconnected, for the purpose of paying out the yarn or thread of the bobbins in succession, to eliminate delays in the operation of knitting machine or circular loom.

The principal object of the invention is the provision of a device of the indicated character which is simple of construction, readily adaptable for use, and of substantial and effectual design.

With the foregoing, other objects of the invention will appear from the embodiments thereof described in the following specification and illustrated in the accompanying drawing, in which,

Figure 1 is a perspective view of a device embodying features of the present invention.

Figure 2 is a vertical sectional view through the device shown in Figure 1, and

Figure 3 is a vertical sectional view showing the device of Figure 1 in use.

Referring now more particularly to Figures 1 and 2, it will be seen that the device comprises cone or bobbin engaging members 10 and 11 respectively integrated to constitute a single unit.

The member 10 consists of a solid block of wood or other suitable material. The block has the form of a truncated pyramid to provide upwardly converging sides 12 making the block of tapering symmetry about its vertical axis.

The member 11 consists of a tapering spike having a head 13 on its upper end, and the lower end being pointed, as at 14. The spike is made of metal, but it may be made of any other suitable material. The shank of the spike is non-circular in cross section. The head 13 is also non-circular.

The block 10 and spike 11 are secured to each other in rigid relation. The block 10 is cut out for this purpose. Accordingly, it has a central countersink to receive the spike disposed coincidental with the vertical axis of the block and projecting downwardly therethrough. The head 13 is countersunk, and filling material, such as plastic wood 15, is used to plug the countersink above the head 13 to hold the spike 11 in place.

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Referring now to Figure 3 it will be seen that the device hereinabove described is employed to support one cone or bobbin of yarn 16 above a larger cone or bobbin 17. Each cone has a hollow open ended conical core, the core of the upper cone 16 being designated 18, and the core of the lower cone 17 being designated 19. The lower cone 17 in practice is on a suitable support on the knitting machine. The block 10 is forced upwardly into the lower end of the core 18 so that the sides 12 frictionally engage the core 18. The spike 11 is then projected downwardly into the upper open end of the core 19. The tail 20 of the yarn of the upper cone is tied as at 21 to the lead 22 of the yarn of the lower cone. Thus the cone 16 is supported above the cone 17 with the yarns of both cones interconnected. In operation of the knitting machine, when the yarn on the cone 16 is exhausted or fully payed out, the yarn on the cone 17 is drawn on to continue or prolong the operation of the knitting machine without delay.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is:

A cone or bobbin supporting device comprising a body having the shape of a truncated pyramid, with an opening passing therethrough from top to bottom, said opening being enlarged at the top to provide a shoulder, a spike projecting from the bottom of the body with a pointed outer end, said spike having a head at its inner end to engage the shoulder and filling material in said opening for said head.

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ALBERT LAMPARELLI.

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