Sept. 28, 1943. H. GOLDSCHMIDT 2,330,702

SPOOL RACK

Filed July 28, 1941

Fig. 1.

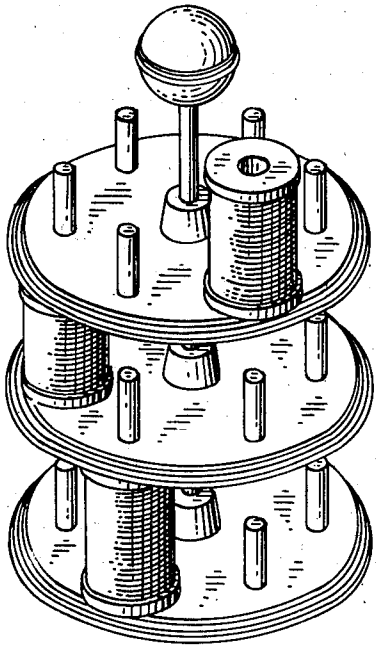


Fig. 2.

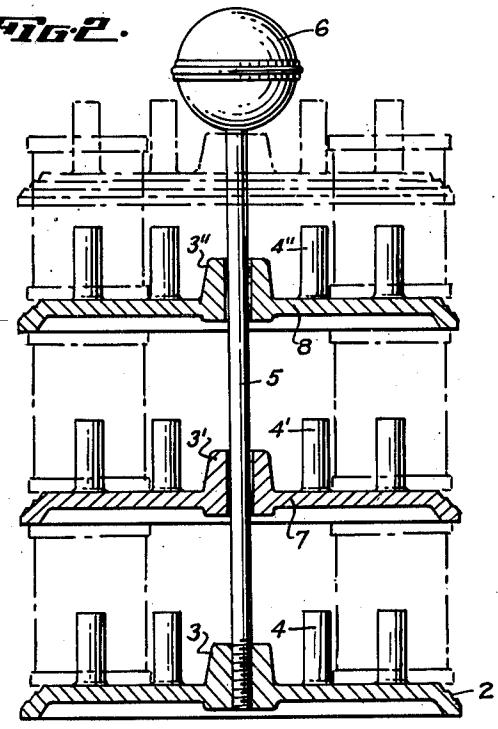
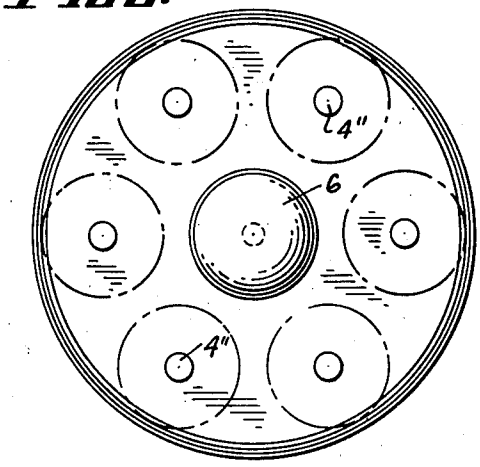


Fig. 3.



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SPOOL RACK

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1 Claim. (Cl. 242—139)

This invention relates to improvements in spool racks and more particularly to revolving, multiple tier holders for spools of sewing thread.

Among the objects of the invention is the provision of a portable, compact spool rack that will hold the spools of conventional sizes securely against accidental displacement.

Another object is to provide means for the easy placement or removal of the spools from the rack.

A further object is the provision of such a rack at a popular price for the domestic trade.

Other objects and advantages will appear as the description progresses.

In this specification and the accompanying drawing the invention is disclosed in its preferred form. But it is to be understood that it is not limited to this form, because it may be embodied in modifications within the spirit of the invention as defined in the claim following the description.

In the one sheeting of drawings:

Fig. 1 is a perspective view from above of a spool rack constructed in accordance with this invention.

Fig. 2 is a vertical section of the same taken through the axis of the rack, with the support rod in full lines.

Fig. 3 is a plan view from above of Fig. 1.

In detail the construction illustrated in the drawing, referring first to Fig. 2, consists of the base 1, preferably round and having the downwardly extending flange 2, with the upwardly extending axial hub 3. The spool holding pegs 4 are spaced circumferentially around the axis of the base, about one-half the diameter of a spool such as X, from the flange 2. This base is preferably formed of molded plastic or other suitable material as an integral unit.

The hub 3 is threaded to receive the threaded end of the support rod 5, which may be fixed therein in any other suitable manner. The handle 6 is fixed on the upper end of said rod. The intermediate tier plates 7, 8, are similar in every respect to the base 1, except that their respective hubs 8, 9, slide and rotate freely on the rod 5. Each tier has its row of spool pegs such as 4, 4', 4'', respectively. These pegs are about one-half as high as the spools X, centered thereon. These pegs should be high enough to securely hold the spools, without adding unduly to the height of the assembly, to permit the removal of any desired spool. Any other suitable spool securing means may be substituted for the pegs illustrated.

This invention operates substantially as follows: The tier plate 7 is supported by the spools X, on the base 1, and the upper plate 8 is supported upon the spools Y on the plate 7. Any desired spool may be removed by grasping the tier plate above it, and lifting the spool off its securing peg. This raises the tier or tiers above it. It is necessary to leave sufficient space between the top hub 3'' and the handle 6 to permit the rise of the upper tier or tiers above the spool being removed. The upper plate 8 being unobstructed, can be used for oversize spools whose height would interfere with the lifting of the lower tier 7.

The sliding of the tier plates on the center rod enables the rack to hold a considerable number of spools within a relatively low overall height. If the sliding feature is not desirable, the tier plates, such as 4, may be spaced apart and fixed a distance sufficient for the removal of the spools without sliding the superimposed tier plates. This modification is useful in displaying thread for sale, and for sewing machine operators in factories.

For hand sewing the plates 7, 8, can be rotated on the center rod 5 until the desired spool comes into view. The required length of thread can then be removed by pulling the thread, which will rotate the spool on its pin 4. The tiers are only lifted to remove a spool for replacement or for use of a spool on a sewing machine.

The base 1 and the superimposed plates 7, 8, can be made in contrasting color combinations if desired. In handling the rack by the handle 6, the spools on the base and lower plate 7 are prevented from displacement by the weight of the upper tiers resting thereon.

The various plates above the base can be made in graduated diameters respectively if desired. But the uniform diameter of plates shown is preferred because they can be molded in the same die and more economically produced. Two movable plates 7, 8, have been shown for illustration, it being understood that any greater number can be used, up to the point where the rack would become top heavy.

Having thus described this invention what I claim and desire to secure by Letters Patent is:

A spool rack having a series of superimposed spool holders comprising uniform plates each having a center hub and spool pins projecting above the plates respectively; a support rod longer than the combined height of said plates and pins and projecting above the top plate a distance substantially the height of one plate and pins and having its lower end fixed in the lowermost of said plates; and a handle on the top end of said rod; whereby the intermediate plates slide freely upon said rod between said lowermost plate and the said handle.

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