Oct. 8, 1940. V. SPEZIALE 2,217,260

SEWING DEVICE

Filed May 18, 1939

FIG. 1

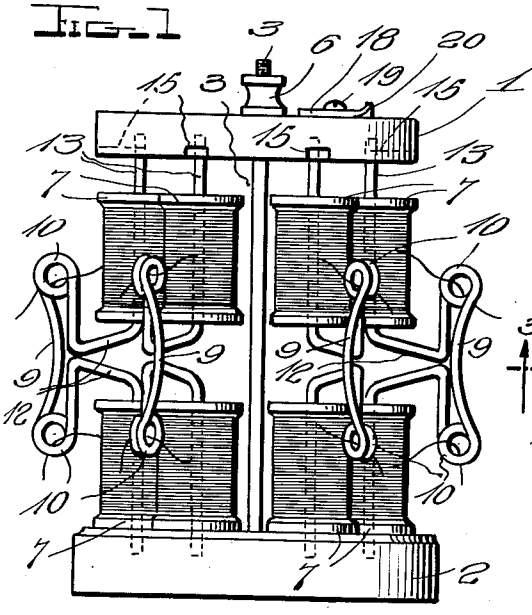
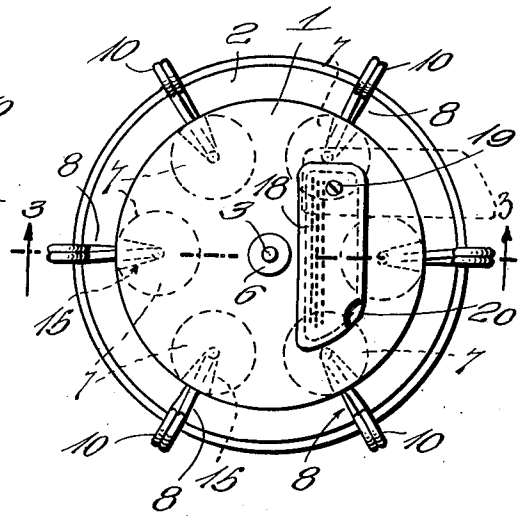


FIG. 2



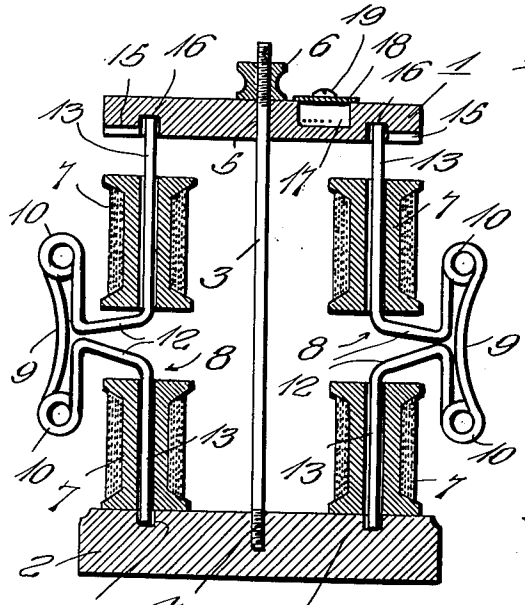


FIG. 3

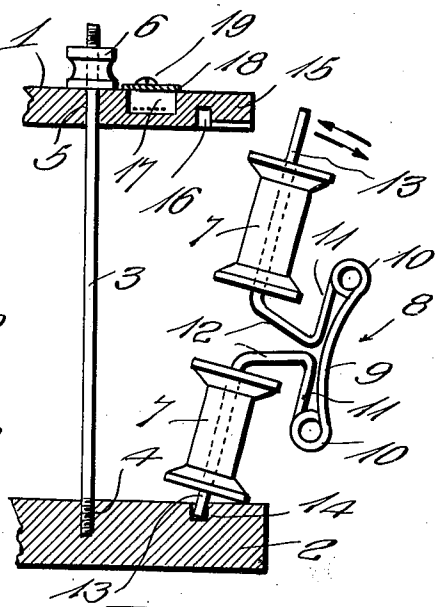


FIG. 4

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# UNITED STATES PATENT OFFICE

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## SEWING DEVICE

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Application May 18, 1939, Serial No. 274,425

7 Claims. (Cl. 242—139)

This invention relates to a sewing device and more particularly to a device of this character constituting a holder for a number of spools of thread or silk, it being one object of the invention to so form the holder that the spools may be easily applied to carriers formed of resilient wire and adapted to be detachably engaged with end portions or heads of a drum or body. It will thus be seen that a plurality of spools may be mounted upon carriers forming part of the spool holder and may be easily removed from a drawer or sewing basket in which they are kept.

Another object of the invention is to so form the carriers that each may hold two spools, intermediate portions of the carriers constituting guides through which threads pass as they are drawn from the spools. Therefore, the threads of the various spools will be guided from the spools upon which they are wound and prevented from becoming tangled, as often happens when a number of spools are placed loose in a drawer or basket.

Another object of the invention is to so form the intermediate portions of the spool carriers that they not only serve as thread guides but also constitute handles by means of which the spool carriers may be grasped when inserting or removing the carriers.

Another object of the invention is to provide the device with a body in the form of a drum having heads or discs at its ends between which the spool carriers are mounted in spaced relation to each other circumferentially thereof, the heads being so formed that the spool carriers may be sprung into position between the heads and when in place prevented from accidentally slipping out of place but allowed to turn to such positions that thread may be easily withdrawn from spools carried by spindles forming portions of the carriers.

Another object of the invention is to provide a body or drum having heads or end discs so mounted on a shaft that one will be firmly held in engagement with the shaft and the other may be easily applied to the other end portion of the shaft and secured thereon by a nut carried by the shaft.

Another object of the invention is to provide the detachably mounted head or disc with a pocket for receiving needles, a cover for the pocket being carried by the disc and movable into and out of closing relation to the pocket.

Another object of the invention is to provide a spool holder which is simple in construction and capable of being manufactured at small cost.

The invention is illustrated in the accompanying drawing, wherein:

Fig. 1 is a side elevation of the improved spool holder.

Fig. 2 is a view looking at one end thereof.

Fig. 3 is a sectional view taken longitudinally through the spool holder on the line 3—3 of Fig. 2.

Fig. 4 is a fragmentary sectional view showing one of the carriers in detached position.

This improved spool holder has a body or drum consisting of heads or discs 1 and 2 and a shaft or rod 3 extending between the heads axially thereof. The rod or shaft 3 has one end screwed into a socket 4 formed at the center of the disc or base 2 and the upper end portion of the rod passes through an opening 5 formed at the center of the disc or head 1 and carries a nut 6 which, when tightened, firmly holds the head in place. Since the head or disc 2 is of greater diameter and thickness than the disc or head 1, it will form a good base for the spool holder and support it in upright position, as shown in Fig. 1, and silk or cotton may be easily drawn from the spools 7 which are supported vertically about the drum.

In order to rotatably support the spools, there has been provided a plurality of spool carriers 8 which extend between the discs in spaced relation to each other circumferentially thereof about their peripheral portions. Each of the spool carriers is formed from a strand of resilient wire which has its intermediate portion bent to form a handle or cross head 9 which is bowed inwardly and has coiled portions or eyes 10 at its ends. After forming the eyes 10, the strand is bent inwardly as shown at 11, and then bent to form arms 12 which extend from the cross head in diverging relation to each other and carry spindles 13 formed of end portions of the strand. After spools have been applied to the spindles the carrier is applied to the drum with the extremity of the lower spindle engaged in one of the sockets 14 formed in the upper face of the lower disc or base 2, as shown in Fig. 4. The carrier is grasped by the handle or cross head 9 and downward pressure applied to the upper spool or arm 12 to depress the upper spindle sufficiently to allow it to be slid inwardly through the groove 15 leading to the socket over the socket 14 in which the lower spindle is engaged. The spool carrier will then be held in place between the discs but may have turning movement in the sockets and thus allow the handles or thread guides to be moved circumferentially of the drum or body. The

threads are passed through the eyes 10, as shown in Fig. 1, and may be easily withdrawn from the spools and, since each thread passes through an eye at the adjacent end of the handle or thread guide of its carrier, the threads will not become tangled. By depressing the upper arm 12, a carrier may be removed and an empty spool replaced with a new one.

In order to carry a supply of needles, there has been provided a pocket 17 formed in the upper disc or head 1 and opening through the upper face thereof. A cover 18 which is formed of sheet metal is pivoted to the disc by a screw 19 and has a corner of its free end bent upwardly to form a lip 20 by means of which the cover may be easily swung about its pivot into and out of closing relation to the pocket.

Having thus described the invention, what is claimed is:

1. A spool holder comprising a drum having upper and lower discs and a rod extending between the discs centrally thereof with its lower end in threaded engagement with the lower disc and its upper end passing through the upper disc and carrying a securing nut, said discs being formed with circumferentially spaced sockets and the upper disc having grooves leading from its sockets to its periphery, and a plurality of spool carriers between said discs, each spool carrier consisting of a resilient strand having its intermediate portion bent to form a handle having a cross head having coiled eyes at its ends and portions extending from the eyes toward each other and bent to form arms extending inwardly from the cross head in spaced relation to each other and carrying spool-receiving spindles extending from the arms toward the discs with their ends engaged in the sockets of the discs to pivotally and detachably mount the spool carriers between the discs.

2. A spool holder comprising a lower disc, a rod extending upwardly from the lower disc, an upper disc formed with an opening through which the upper end of said rod passes, a nut threaded on the protruding upper end of said rod and holding the upper disc in place, said discs having their confronting faces formed with sockets, the sockets of one disc having entrance grooves leading therefrom and a plurality of spool carriers between said discs, each spool carrier consisting of a resilient strand bent to form a handle having thread receiving eyes at its ends and yieldable arms extending from said handle and carrying spool-receiving spindles having their ends engaged in said sockets to pivotally and detachably mount the spool carriers between the discs.

3. A spool holder comprising a lower disc, a rod extending upwardly from the lower disc, an upper disc formed with an opening through which the upper end of said rod passes, a nut threaded on the protruding upper end of said rod and holding the upper disc in place, said discs having their confronting faces formed with sockets, the sockets of one disc having entrance grooves leading therefrom and a plurality of spool carriers between said discs, each spool carrier having a longitudinally extending handle provided with thread receiving eyes at its ends and yieldable arms extending inwardly from the handle intermediate the length thereof and carrying spool-receiving spindles having their ends engaged in said sockets to detachably mount the spool carriers between the discs with their handles presented outwardly.

4. A spool holder comprising a frame having upper and lower discs, confronting faces of the discs being formed with sockets spaced from each other circumferentially thereof, and a plurality of spool carriers between said discs, each spool carrier being formed from a resilient strand having intermediate portions bent to form a handle bar having thread receiving eyes at its ends, and yieldable arms extending inwardly from the handle bar and bent to form spool receiving spindles having their ends engaged in said sockets to mount the spool carriers between the discs.

5. A spool holder comprising a frame having upper and lower discs, confronting faces of the discs being formed with sockets spaced from each other circumferentially thereof, and a plurality of spool carriers between said discs, each spool carrier being formed from a resilient strand having intermediate portions bent to form a longitudinally extending handle bar having coiled eyes at its ends and portions extending from the eyes toward each other and bent to form arms extending from the handle bar and carrying spool receiving spindles extending longitudinally of the spool carriers with their ends engaged in the sockets.

6. A spool holder comprising a frame having upper and lower discs, confronting faces of the discs being formed with sockets spaced from each other circumferentially thereof, and a plurality of spool carriers between said discs, each spool carrier having a handle portion provided with thread receiving eyes at its ends and yieldable arms extending from the handle portion and carrying spool receiving spindles extending longitudinally of the spool carriers with their ends engaged in the sockets.

7. A spool holder comprising a frame having upper and lower discs, confronting faces of the discs being formed with sockets spaced from each other circumferentially thereof, and a plurality of spool carriers between said discs, each spool carrier having an intermediate portion provided with thread receiving eyes and spindles carried by the intermediate portion with their ends removably engaged in said sockets.

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