Feb. 10, 1925. 1,525,748

A. C. KLEIN

SPOOL RACK

Filed Sept. 1, 1923

Fig. 1

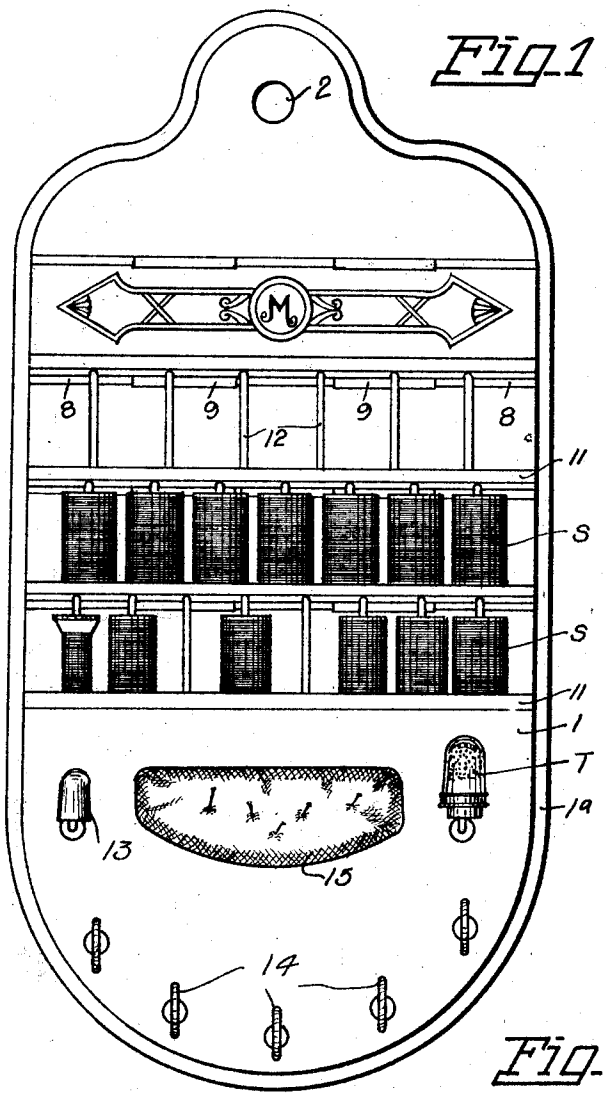


Fig. 2

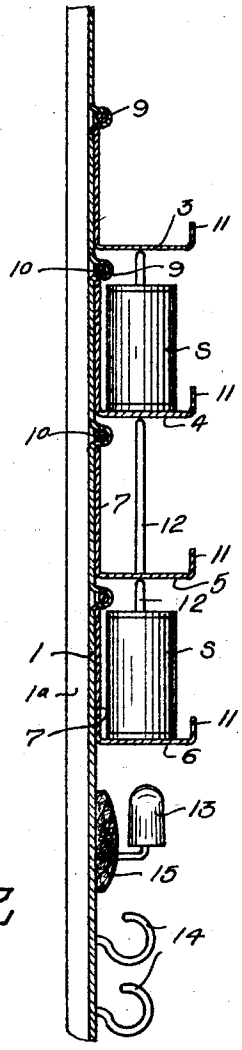
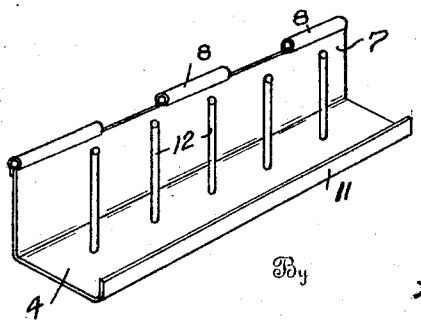


Fig. 3



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UNITED STATES PATENT OFFICE.

ALBERT C. KLEIN, OF EDWALL, WASHINGTON.

SPOOL RACK.

Application filed September 1, 1923. Serial No. 660,623.

To all whom it may concern:

Be it known that I, ALBERT C. KLEIN, a citizen of the United States, residing at Edwall, in Lincoln County, and State of Washington, have invented certain new and useful Improvements in Spool Racks, of which the following is a specification.

The present invention relates to an improved spool rack for domestic use, which also provides means for supporting scissors, thimbles and other sewing implements, as well as a pin cushion. The primary object of the invention is the provision of a comparatively inexpensive device of this character which is simple in construction, compactly arranged, and adapted to retain the spools in an orderly manner and convenient position for access when needed.

The invention consists essentially in certain novel combinations and arrangements of parts involving hinged shelves for the support and retention of the spools, as will be hereinafter more fully pointed out and claimed. In the accompanying drawings I have illustrated one complete example of the physical embodiment of my invention wherein the parts are combined and arranged according to the best mode I have thus far devised for the practical application of the principles of my invention.

Figure 1 is a view in front elevation of the spool rack according to my invention adapted to be hung from a wall or similar support.

Figure 2 is a vertical sectional view showing an enlarged portion of the spool rack, and particularly the hinged shelves of the structure.

Figure 3 is a detail perspective view of one of the shelves, detached.

In carrying out my invention I utilize a wall plaque or plate 1 of sheet metal or other suitable material that may be stamped to shape or fashioned in other inexpensive manner. The plaque may be produced in the form of a shield as shown, or may be given any other attractive and neat appearance, but is preferably formed with a reinforcing or strengthening edge flange 1^a to give it the semblance of thickness. As herein illustrated the device is designed to be suspended from a wall or other support by means of the opening 2 near its top.

For supporting the spools S of cotton, silk, or other threads, I utilize a plurality of horizontally disposed shelves indicated as 3, 4, 5, and 6, which extend from side to side of the plaque as shown in Fig. 1 and are arranged in parallelism thereon. Each of these shelves has a back wall 7 formed at approximately right angles thereto, and at the upper edges of these walls they terminate in spaced, horizontally disposed sleeves 8. In its manufacture the plaque or plate 1 is stamped out to form a series of rows of spaced sleeves 9 complementary to and adapted to co-act with the row of sleeves on the shelves, and a hinge pin 10 is passed through the alined sleeves of the shelves and plaque to support the shelves and form a pivot for the respective shelves of the rack. As seen best in Fig. 2 the shelves are suspended from their hinge pins to hang snugly against the plaque with the back wall 7 of each shelf in close contact therewith, and at their front edges each shelf is fashioned with an upturned guard flange 11 extending throughout its length. The spools S are slipped over pins or spindles 12, spaced at regular intervals and projecting upwardly from the top surface of the shelves, and are convenient for access when wanted. Preferably the spindles are omitted from the upper shelf 3 which may be used as a support for various articles in addition to the spools if desired.

The shelves are suspended on their respective hinges in such manner as to freely swing outwardly and upwardly and a spool may be extracted from the rack by grasping the selected spool and pulling outwardly and upwardly on it. This action, if directed for instance to the desired spool on shelf 4 swings this shelf outwardly from the plaque, and if necessary the shelf 3 may also be swung upwardly, whereupon the spool desired is free to be pulled from its spindle without disturbing the remaining spools. By simple manipulation of the fingers of one hand, the several shelves may be swung upwardly to give access to any desired spool and said spool may be extracted by use of the other hand. This arrangement of the rack, while presenting an attractive appearance for the plaque and supporting the spools in position for convenience of access, also protects the spools from dust, as it will be apparent that the shelves above the spools will prevent settling of dust on them.

For the convenience of the seamstress the lower portion of the plaque may be utilized

for the attachment of thimble heads 13 for the support of a thimble as indicated at T and hooks 14 are spaced at intervals around the curved lower edge of the plaque for the suspension of scissors, while a pin cushion 15 is located between the two thimble-heads as indicated.

It will be apparent that the plaque and shelves may be stamped to proper shape from thin sheet metal, or fashioned in other suitable manner from other material, and the spindles of the shelves may be affixed to or in some instances made integral with the shelves, at a comparatively low cost of production. The shelves may be assembled and suspended from the plaque by the use of the hinge pins and these members may be inserted in the alined sleeves of the plaque and shelves with convenience and facility to form hinge or pivot supports for the shelves.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent is—

1. The combination with a wall plaque having a plurality of rows of spaced hinge-sleeves and openings, of angular shelves having complementary spaced hinge-sleeves and a hinge pin for each shelf, said shelves being located in superposed formation, and spool-supporting spindles on one of said shelves.

2. The combination with a wall plaque having a plurality of rows of spaced hinge-sleeves and openings, of shelves each having an angular back wall and a front flange, complementary spaced hinge-sleeves on each back wall and a hinge pin for each shelf, said shelves being located in superposed formation, and spool-supporting spindles on some of said shelves.

In testimony whereof I affix my signature.

ALBERT C. KLEIN.