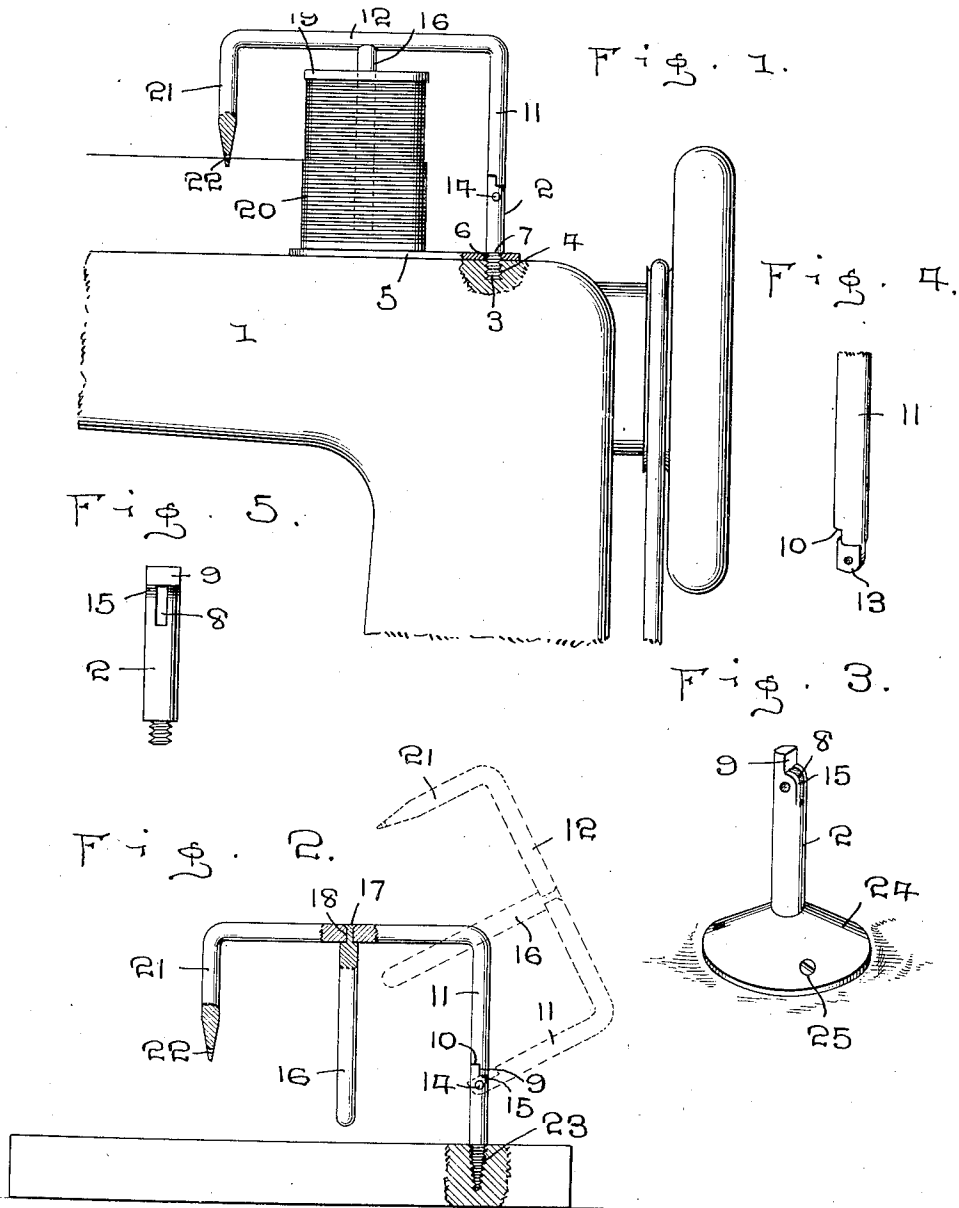


H. REICHERTER.
SPOOL AND TWINE HOLDING DEVICE.
APPLICATION FILED JULY 19, 1909.

941,949.

Patented Nov. 30, 1909.



WITNESSES:

Thomas Riley
J. R. French

INVENTOR
H. Reichert

BY

W. J. FitzGerald
Attorneys

UNITED STATES PATENT OFFICE.

HERRMAN REICHERTER, OF CAMERON, WEST VIRGINIA.

SPOOL AND TWINE HOLDING DEVICE.

941,949.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HERRMAN REICHERTER, a citizen of the United States, residing at Cameron, in the county of Marshall and State of West Virginia, have invented certain new and useful Improvements in Spool and Twine Holding Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to new and useful improvements in spool or twine holding devices and is more particularly adapted to be used in connection with sewing machines to retain the thread in position to be fed to the needle and in stores or similar places for holding spools or balls of twine when used for tying bundles and my object is to provide means for securing the holding device to the machine, or other objects.

A further object is to provide means for engaging the openings in a spool or ball of twine and retain said spool or ball in position to permit the same to rotate when the thread is unwound therefrom.

A further object is to provide a guide for the thread as it is unwound.

A further object is to provide a hinged connection between the spool retaining part and the anchoring part and a further object is to provide means for limiting the swinging movement of the hinged parts.

Other objects and advantages will be hereinafter referred to and more particularly pointed out in the claims.

In the accompanying drawings forming part of this application, Figure 1 is a side elevation of a section of the head of a sewing machine showing the spool holding device attached thereto. Fig. 2 is an elevation partly in section showing the manner of attaching the holding device to a table, window sill or similar object, one position of the hinge member being shown by dotted lines. Fig. 3 is a perspective view of one form of anchoring post. Fig. 4 is a detail perspective view of the hinging end of the hinged portion, and, Fig. 5 is a detail elevation of that form of post shown in Fig. 1.

Referring to the drawings in which similar reference numerals designate corresponding parts throughout the several views, 1 indicates the arm of the machine, which arm may be constructed in the usual or any

preferred manner and 2 indicates the anchoring post of my improved spool holding device, the lower end of said post being slightly reduced and provided with threads 3, which threads are adapted to enter a threaded socket 4 in the arm 1.

As the arms of some machines are oval, or inclined, I provide a bearing plate 5, which is adapted to rest on the upper face of the arm, said plate being held in position by introducing the threaded portion of the post through a threaded opening 6 in one end of the plate, the shoulder 7 formed by reducing the threaded end of the post engaging the upper face of the plate and firmly holding the plate in position, when the post is properly attached to the arm.

The upper end portion of the post 2 is provided with a slot 8, which slot extends entirely through the post and at a point below the upper end thereof, that portion of the post above the slot being reduced in thickness substantially one-half its diameter to form a shoulder 9 for the reception of a similar shoulder 10 formed on the depending arm 11 of the spool retaining frame 12, the free end of the arm 11 having a tongue 13 thereon, which is adapted to enter the slot 8 said tongue being in width equal to the diameter of the arm and post and by extending a pin 14 transversely through the post and tongue, said frame will be hingedly secured to the post.

The shoulders 9 and 10 are opposed to each other, so that when the arm 11 is swung to a vertical position, it will be retained in vertical alinement with the post to which it is attached and in order to allow the arm 11 to readily swing on its pivot, the upper edge walls of the slot 8 are surrounded as shown at 15 and by forming the tongue 13 of the same width as the diameter of the post, said tongue will engage the upper end wall of the slot and limit the outward swinging movement of the arm 11, thus preventing the arm from swinging below a horizontal position.

At the longitudinal center of the horizontal frame 12 is attached a mandrel 16, the upper end of said mandrel having a stem 17, which is introduced through an opening 18 in the frame 12 and is secured in said opening by upsetting or riveting the free end of the stem, the upper end of the opening being counter sunk to receive the upset portion of the stem.

The mandrel is extended downwardly and terminates at a point above the object to which the post is secured and is adapted to receive a spool 19, said spool containing
 5 thread 20 and in order to guide the thread the end of the frame opposite the arm 11 is provided with a guide arm 21, the free end of said guide arm being preferably flattened and provided with an eye 22 through which
 10 the thread passes, said guide arm terminating at a point substantially one-half the distance between the object to which the post is secured, and the frame 12, whereby the eye will be positioned near the longitudinal
 15 center of the spool.

In placing the spool onto the mandrel, the frame 12 is moved to the position shown by dotted lines in Fig. 2, when the spool is introduced into the mandrel and the frame
 20 then turned to the position shown in Fig. 1, the spool resting upon the bearing plate 5 and in view of the fact that the lower end of the mandrel is positioned above the plate, the unwinding of the thread, should the
 25 thread pass below the spool, will not be interrupted, as the thread will readily pass below the end of the mandrel and in view of the weight of the frame and the guide arm, the frame will be held more or less
 30 rigid and by providing a level surface for the spool, said spool will be held against vibrating when the thread thereon is being unwound therefrom.

When the spool holding device is used in
 35 connection with a table or other support constructed of wood, the lower end of the post 2 is provided with a screw 23, whereby the lower end of the post may be readily entered into the wood, this feature being
 40 shown in Fig. 2, while in some instances the lower end of the post may be provided with a circular base 24, which is attached to the object upon which it rests by introducing
 45 screw 25 through openings in the base, the lower end of the post being secured in any preferred manner to the base.

The form of device shown in Figs. 1 and 5 is adapted more particularly to be used in connection with sewing machines, while
 50 the form shown in Figs. 2 and 3 is adapted more particularly to be used in stores or other places where a quantity of thread and twine is used for tying packages, said holders being attached to tables, counters or
 55 other convenient objects and it will be readily seen that by increasing the size of the frame and mandrel, large spools of tying

twine or balls of twine may be supported on the mandrel and by increasing the size of the eye in the guide arm, various sized
 60 threads may be used.

It will thus be seen that I have provided a very cheap and durable form of spool supporting and thread guiding mechanism and one that can be attached to any make
 65 of sewing machine or to counters or other objects where thread is required for tying purposes and it will likewise be seen that by arranging the device in the manner shown, it will be impossible for the thread
 70 to become entangled while being unwound from the spool or ball and by properly constructing the device, tape may be used in connection therewith instead of thread or
 75 twine, the only changes necessary for this purpose being the form of the eye in the arm.

What I claim is:

1. In a holding device, the combination with a post and means to attach the post to
 80 an object, said post having a slot adjacent its upper end and a shoulder above said slot; of a frame having a depending arm, said arm having a tongue at its lower end and a shoulder adapted to coöperate with
 85 the shoulder on the post, means to mount the tongue in said slot, a mandrel depending from said frame and of less length than the distance between the frame and the object to which the frame is secured, and a guide
 90 arm depending from said frame, said guide arm having an eye in its lower end.

2. In a holding device, the combination with a post, a bearing plate, said post having a slot adjacent its upper end and a
 95 shoulder above the slot, and means to attach said bearing plate and post to an object; of a frame having a depending arm, said arm terminating in a tongue at its lower end, said arm also having a shoulder
 100 adapted to coöperate with the shoulder on the post, means to pivotally secure the tongue in said slot, said shoulder and tongue limiting the swinging movement of the frame, a mandrel secured to said frame and
 105 a guide arm integral with said frame and having an eye at its lower end.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HERRMAN REICHERTER.

Witnesses:

J. C. MOYES,
 C. Y. McCARDLE.