J. T. DOWDALL.

SPOOL SUPPORT FOR SEWING MACHINES.

APPLICATION FILED APR. 12, 1918.

1,293,054. Patented Feb. 4, 1919.

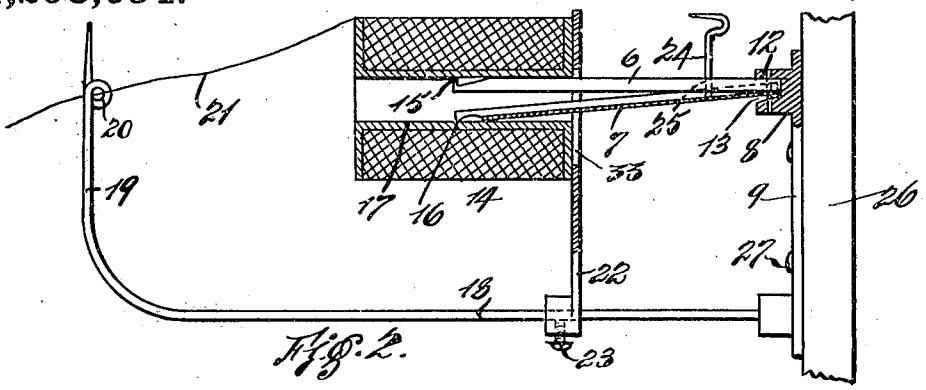

Fig. 2.

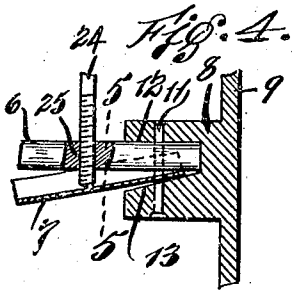

Fig. 4.

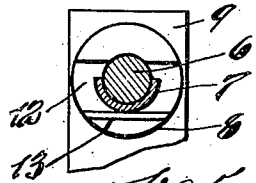

Fig. 5.

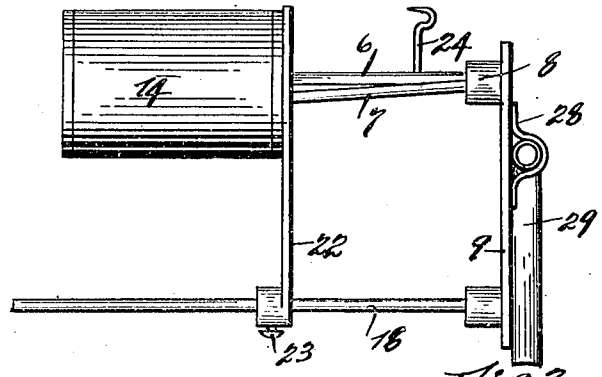

Fig. 3.

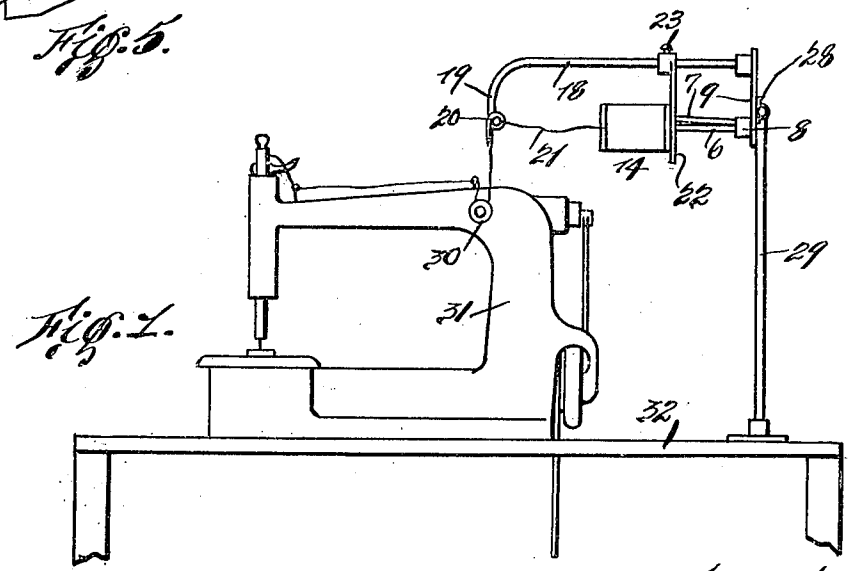

Fig. 1.

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SPOOL-SUPPORT FOR SEWING-MACHINES.

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Application filed April 12, 1918. Serial No. 228,237.

To all whom it may concern:

Be it known that I, JAMES T. DOWDALL, a citizen of the United States of America, residing at Woodhaven, Queens county, State of New York, have invented certain new and useful Improvements in Spool-Supports for Sewing-Machines, of which the following is a full, clear, and exact description.

This invention relates to improvements in supports or holding devices for spools, reels, or the like, of cotton or sewing-thread employed in connection with sewing machines. My invention is particularly designed for use in connection with sewing machines for manufacturing purposes, that is to say, in establishments for manufacturing clothing or other articles, in large quantities. The sewing thread required for the above purpose is usually supplied in large quantities, that is to say, it is wound upon large spools or reels which are supported by standards placed adjacent the machines. The location and manner of supporting these spools or reels is not altogether satisfactory, as they take up valuable room, besides being in the way of the articles which are being sewed. One of the objects of my invention is to provide a spool or reel support designed to firmly grip and maintain the spool above the machine, well out of the way. My improved support may be carried by a standard or secured to the wall adjacent the machine, should the machine be located adjacent a wall.

Other features of improvement will be pointed out in the following specification, and illustrated in the accompanying drawing, wherein:—

Figure 1 is a diagrammatic view illustrating my improvement as applied to a sewing machine;

Fig. 2 is an enlarged detail view of the spool-support proper, partly in section, illustrated as applied to a wall or other similar support;

Fig. 3 is a similar view, the thread guide being broken off, illustrating the support arranged for attachment to a standard;

Fig. 4 is an enlarged sectional detail view of a portion of the spool-support; and

Fig. 5 is an enlarged cross sectional view thereof, the section being taken on a line 5—5 in Fig. 4.

My improvement consists mainly of a spool-holder suitably supported adjacent a thread guide, the assembly being arranged for attachment to a wall or the like, or to a standard. As herein embodied, the device comprises a spool-holder or arm comprising in this instance, two parts, one part consisting of a fixed solid member or rod 6 and a movable semicylindrical member 7, as is plainly indicated in Fig. 5. One end of the rod 6 is firmly held in a lug 8, carried by a plate 9, by a rivet 11, which also passes through the movable member 7 of the arm. The member 7 is loosely mounted upon the rivet and is capable of a radial or pivotal movement thereon.

The jaw 12 in the lug is beveled at one side, as at 13, to permit the arm-member 7 to be pivotally moved thereon. The object of moving the arm-member 7 is to provide an expansible and contractible arm or engaging device for a spool or reel, indicated by 14, carrying thread. The outer end of the fixed member 6 of the arm is provided with a sharp tooth 15, the other arm-member being also provided with a sharp tooth as at 16. The sharp teeth 15 and 16 serve to engage the core 17 of the spool to tightly secure same to the arm. In combination with the arm and plate 9, I provide a thread-guide consisting of a supplemental arm 18 bent as at 19 and terminating in an eye 20 for the passage therethrough of the thread 21. Upon the supplemental arm or thread guide 18, I adjustably mount a follower or bracket 22 carrying a set-screw 23, the function of the follower or bracket being to serve as a backing for the spool or reel 14 to aid in positioning same in a substantially horizontal plane. When the spool or reel is placed upon the arm, the members thereof being contracted as in Fig. 5, it will be moved up to the bracket 22. As the bracket is flat, the spool will be caused to assume a horizontal position, after which the arm-members will be spread to engage the core of the spool. To spread the arm-members to cause them to grip the spool, I provide a threaded spindle or expanding device 24 which passes through a threaded opening 25 in the solid arm-member 6. The object of providing an arm consisting of a solid member and a semi-cylindrical member is to supply a structure which, when folded or contracted, will present a substantially cylindrical surface, or, in other words, a

structure that can be reduced to small diameter so as to also accommodate small spools.

The plate 9 may be secured to a wall or the like, indicated by 26 (Fig. 2) by screws 27 or may be provided with a clamp 28 to engage a stand 29, as indicated in Figs. 1 and 3. In either case, my spool-support will be located so that the thread can be led to the tension device 30 of a sewing machine 31 (Fig. 1). When a standard is used, it will be preferably secured to the table 32 carrying the sewing machine.

My improved device provides handy and simple means to efficiently support a supply of thread adjacent a sewing machine, but out of the way, so that the thread cannot become entangled with the goods or other elements about the machine.

As can be seen in Fig. 2, the follower or bracket 22 is provided with an elongated slot 33 through which the spool or reel arm passes.

What I claim as my invention is:

1. A spool or reel support comprising an arm, consisting of a cylindrical fixed member and a semi-cylindrical member pivotally mounted at one end adjacent the fixed end of the fixed member, a threaded spindle carried by the fixed member to force the movable member away from the said fixed member, a support for said arm-members, a thread guide adjacent the arm, a support for the arm and thread guide, and a bracket slidably mounted on the thread guide to serve as a backing for a spool on the arm.

2. A spool or reel support comprising an arm, consisting of a cylindrical fixed member and semi-cylindrical member pivotally mounted at one end adjacent the fixed end of the fixed member, a threaded spindle carried by the fixed member to force the movable member away from the said fixed member, a support for said arm-members, a thread guide adjacent the arm, a support for the arm and thread guide, a bracket slidably mounted on the thread guide to serve as a backing for a spool on the arm, and a tooth carried by each arm-member at the free end thereof to engage the core of a spool.

3. A spool or reel support consisting of a support, a lug carried thereby having a slot, a fixed arm-member located at one side of said slot, a rivet passing through the lug and through said fixed arm-member, a movable arm-member loosely engaging said rivet at one end thereof, a threaded spindle carried by the fixed arm-member to operate the movable arm-member, a tooth carried by each arm-member at the free end thereof to engage the core of a spool, a bracket provided with a slot, said arm-members passing through said slot, and means to slidably support the said bracket.

4. A spool or reel support consisting of a support, a lug carried thereby having a slot, a fixed arm-member located at one side of said slot, a rivet passing through the lug and through said fixed arm-member, a movable arm-member loosely engaging said rivet at one end thereof, a threaded spindle carried by the fixed arm-member to operate the movable arm-member, a tooth carried by each arm-member at the free end thereof to engage the core of a spool, a thread guide adjacent said arm-members, and a bracket adjustably mounted on said thread guide and having a slot for the passage therethrough of said arm-members, said bracket acting as a backing for a spool on said arm.

5. A spool or reel support consisting of a support, a lug carried thereby having a slot, a fixed arm-member located at one side of said slot, a rivet passing through the lug and through said fixed arm-member, a movable arm-member loosely engaging said rivet at one end thereof, a threaded spindle carried by the fixed arm-member to operate the movable arm-member, a tooth carried by each arm-member at the free end thereof to engage the core of a spool, a thread guide adjacent said arm-members, and a bracket adjustably mounted on said thread guide and having a slot for the passage therethrough of said arm-members, said bracket acting as a backing for a spool on said arm, said thread guide being provided at its end with an eye, alining with said arm-members, for the passage of thread.

Signed at New York city, N. Y., this 11 day of April, 1918.

JAMES T. DOWDALL.

Witnesses:
EDWARD A. JARVIS,
MAURICE BLOCK.