No. 809,303. PATENTED JAN. 9, 1906.

F. A. HOLT.

MEANS FOR HOLDING SPOOLS AND SEWING MACHINE BOBBINS.

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Fig. 1.

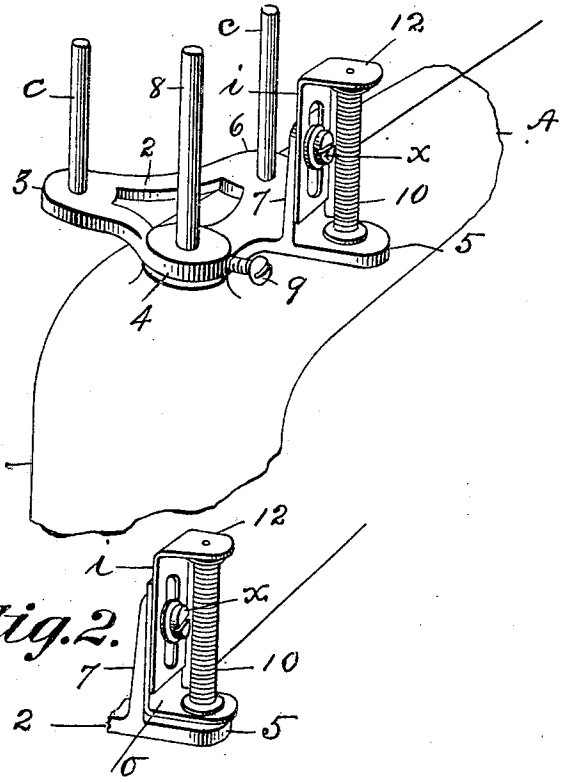

Fig. 2.

Witnesses:
J. L. Garfield
H. J. Clemons

Inventor:
Frank A. Holt
by Colapiers & Co
Attorneys.

UNITED STATES PATENT OFFICE.

FRANK A. HOLT, OF HOLYOKE, MASSACHUSETTS.

MEANS FOR HOLDING SPOOLS AND SEWING-MACHINE BOBBINS.

No. 809,303. Specification of Letters Patent. Patented Jan. 9, 1906.

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To all whom it may concern:

Be it known that I, FRANK A. HOLT, a citizen of the United States of America, residing at Holyoke, in the county of Hampden and State of Massachusetts, have invented new and useful improvements in means for holding spools of silk, thread, and sewing-machine shuttle-bobbins in sewing the same by hand or by machine, of which the following is a specification.

This invention relates to spool-holding racks for use on shuttle or other sewing-machines or other places where it may be convenient for a person using the machine to have spools of thread of various qualities or colors constantly at hand and so hold them on suitable pins or otherwise that change of threads for the needle or for the latter and the shuttle of the machine may be made in a moment and without removing the spools from the spool-pins; and the invention consists in the peculiar construction of the spool and bobbin-holding rack, together with means for securing said rack to the sewing-machine and for holding metal bobbins thereon of varying lengths from which thread may be drawn of special strength and under unusual tension for special work.

In the drawings forming part of this specification, Figure 1 is a perspective view of a part of the arm of a sewing-machine having attached thereto in position for use a spool and bobbin rack constructed and attached to said arm in accordance with my invention and illustrating my improvements relative to means for holding thereon bobbins of thread of varying lengths and improved means for retaining a bobbin adjustably on said arm against too free rotation when thread is drawn from it, and thus regulating the tension of the thread drawn off. Fig. 2 is a perspective view of the bobbin-holding and tension-adjusting parts of Fig. 1, showing a modified construction of the parts having a frictional engagement with the bobbin-spool, whereby two clips are adjustable against and from the ends of the bobbin to restrain the movement of yarn from the bobbin or let it run more or less freely, so that a tight or loose yarn may be given off from the bobbin.

Referring to the drawings, 2 indicates the metallic base of the spool-rack having border projections 3, 4, 5, and 6 and the vertical standard 7 and is made, preferably, of cast metal. The border projection 4 of said base is perforated to permit the spool-pin 8 to pass through it easily, the lower end of which is rigidly fixed in the upper side of said arm A for a purpose below described. A set-screw 9 in the border of said projection 4 is arranged to be screwed against the side of said fixed spool-pin 8 near the surface of the projection 4 and rigidly locks said rack to the pin 8 and to the arm A in the position shown in Fig. 1, thereby bringing the several spool-pins *c c* and 8 to convenient positions to receive on each one thereof a spool of thread rotatable freely under the action of thread drawn therefrom, the projection 5 of said base on which the bobbin 10 rests, the sliding clip 12, and screw *x* having the positions illustrated in Fig. 1, whereby when the bobbin 10 is placed thereon, as shown, it occupies a position which facilitates drawing the thread therefrom when it shall be used on a lock-stitch or other sewing machine. Said bobbin is adapted to rotate supported on the usual center pin or axis, whose extremities project slightly beyond the heads of the bobbin and engage in sockets in the part 5 of the base 2 of the spool-rack and in the upper end of the sliding clip 12, as shown in Fig. 2. Said clip 12 has its vertical part slotted, as shown, to provide for passing the clip holding and adjusting screw *x* therethrough into the vertical post 7 of the rack, whereby said clip is adjusted to different heights to accommodate bobbins of different lengths and, if wished, to vary the tension of thread drawn from the bobbin by pressure of one or both clips against the extremities of the bobbin there held, as shown.

The practical advantages of the spool-holder constructed as described and devices for holding a sewing-machine bobbin so placed on the spool-pin 8 on top of a sewing-machine are that one can sew from said bobbin under a regulated tension instead of sewing from a free-turning spool under no tension.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

A combined spool and bobbin holder comprising a base having a plurality of upstanding spool-receiving pins, and a perforated collar member adapted to receive and be

mounted over the fixed spool-pin of a sewing-machine, whereby the latter constitutes one of the pins of the holder, said base being further provided with a bobbin-rack consisting of a lower fixed member and an upper vertically-adjustable member, said relatively fixed and adjustable members being provided with bearing elements receiving the axis-pin of a bobbin.

FRANK A. HOLT.

Witnesses:
H. A. CHAPIN,
K. I. CLEMONS.