Dec. 20, 1927. 1,653,115

M. MORAN

SEWING MACHINE ATTACHMENT

Filed Nov. 17, 1926

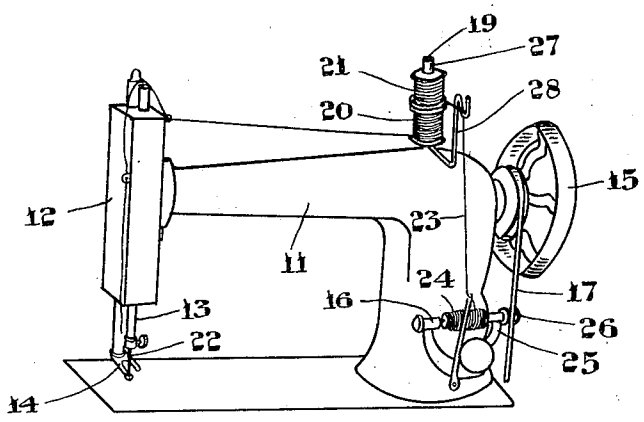


FIG. 1

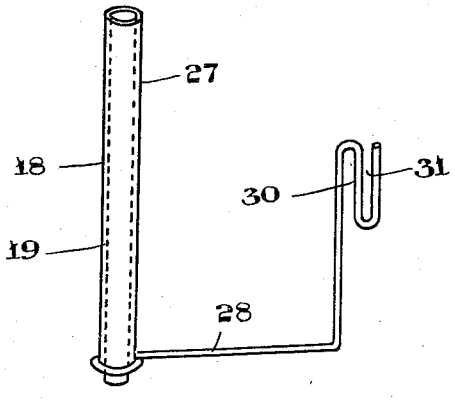


FIG. 2

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UNITED STATES PATENT OFFICE.

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SEWING-MACHINE ATTACHMENT.

Application filed November 17, 1926. Serial No. 148,942.

This invention relates to new and useful improvements in attachments for sewing machines, and the object of the invention is to provide a simple and efficient means for supporting the spools of cotton so that a bobbin for the shuttle may be easily filled with thread while operating the needle bar for sewing purposes.

Another object is to provide an attachment of the class stated which may be attached to the machine permanently so that it will be in position for use when required without dismantling or disconnecting any part of the machine.

In my invention, I provide an attachment which is mounted on the ordinary spool support secured to the head of the sewing machine. The attachment is provided with an outwardly projecting guide for leading the thread towards the bobbin winder mounted as a general rule on the face of said head.

In the drawing which illustrates one form of my invention—

Figure 1 is a perspective view of a machine head with the improved attachment mounted thereon.

Figure 2 is a perspective view of the attachment.

Referring more particularly to the drawings, 11 designates the head of a sewing machine of the usual construction, 12 the casing for the operation mechanism for the needle bar 13, and presser foot 14, and 15 designates the driving wheel. Also secured to the face of the head is the bobbin winder of the usual type, designated as a unit by the reference numeral 16, and driven by frictional contact with the belt 17. Slidably mounted on the usual upwardly projecting spool holder 19 is the attachment 27, shown in detail in Figure 2. The spool holder comprises a vertically disposed tubular member 18 which fits over the holder 19 and is of such a length that it will support two spools of cotton 20 and 21, one above the other. The thread from one of said spools passes over suitable guides to the needle 22 secured to the needle bar, while the thread 23 from the other spool passes to the bobbin 24 mounted between the spring catches 25 of the bobbin winder, which is driven through the medium of the belt 17 and the pulley 26. Projecting outwardly from the tubular member 27 is the arm 28, which is first bent upwardly parallel to the holder and then in the form of a U to form a guide for the thread 23.

The device is very simple in operation and provides a simple means for filling the bobbin on the bobbin winder, without dismantling the arrangement of threads on the machine. To wind a bobbin on the bobbin winder, the thread 23 is taken from the spool 21 and passed through the space 31 and into the hooked or U portion 30 of the arm 28, and from thence to the bobbin mounted between the spring catches 25. The bobbin winding mechanism is then brought forward to contact with the driving belt which rotates the bobbin 25 through the medium of the pulley 26. The rotating bobbin 25 pulls the thread 23 from the bobbin 21, said thread passing through the space 31 and also through the space between the legs of the U portion, and also down over the lower part of said U portion. The guide is rotatably mounted on the usual bobbin holder so that the arm may be moved to accommodate the winding action of the thread on the bobbin 25. The attachment may be permanently mounted on the machine so that the bobbin 25 may be filled with thread during the operation of sewing and without interfering with the sewing mechanism or threads. The U-shaped guide prevents the thread from becoming disengaged from the attachment and the arm is preferably made of round bar to prevent the thread from breaking while passing through the parts of the attachment.

Having thus described my invention, what I claim is:—

1. An attachment for sewing machines comprising, a tubular member adapted to be slidably mounted on the bobbin holder and made long enough to form a support for a plurality of bobbins of thread, and an arm secured to and extending outwardly from said tubular member, the end of said arm being bent to form a guide for thread from one of said bobbins to a shuttle bobbin.

2. An attachment for sewing machines comprising, a tubular member mounted on the bobbin holder of the machine and adapted to rotatably support a plurality of bobbins of thread, an arm secured to and extending outwardly from the tubular member, the end of said arm being first bent upwardly and terminating in the form of a U to form a guide for thread being wound from

one of the said bobbins to a shuttle bobbin mounted on the thread winding mechanism of the machine.

3. An attachment for sewing machines comprising, a tubular member adapted to support a plurality of bobbins of thread, an arm secured to the bottom and extending outwardly at right angles to the tubular member, the end of said arm being bent upwardly parallel to said tubular member and terminating in the form of a U, with the open end of the U facing in the same direction as the top of the tubular member.

In witness whereof, I have hereunto set my hand.

MAY MORAN.