

J. N. MOORE.
GRINDING WHEEL ATTACHMENT FOR SEWING MACHINES.
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933,382.

Patented Sept. 7, 1909.

Fig. 1

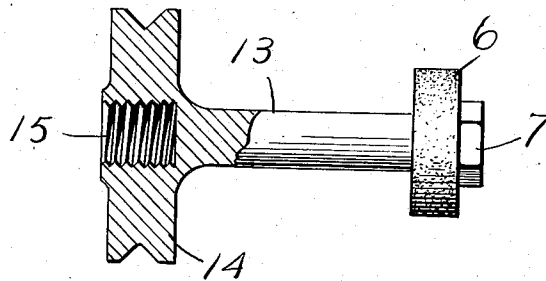
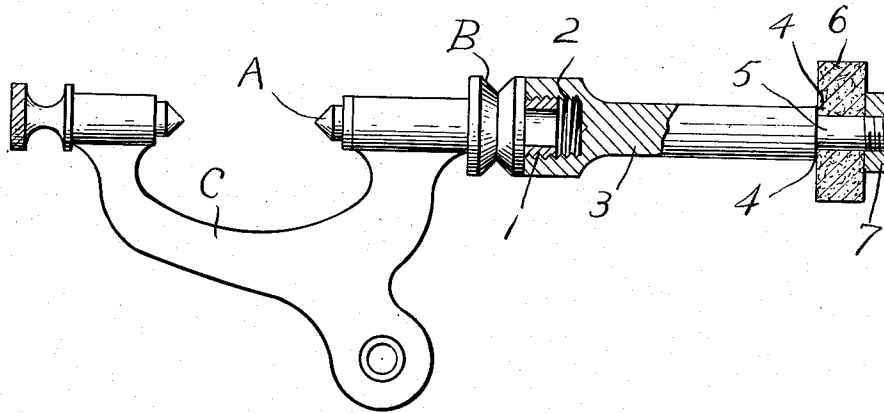


Fig. 2.

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UNITED STATES PATENT OFFICE.

JOHN N. MOORE, OF WASHINGTON, DISTRICT OF COLUMBIA.

GRINDING-WHEEL ATTACHMENT FOR SEWING-MACHINES.

933,382.

Specification of Letters Patent.

Patented Sept. 7, 1909.

Application filed December 19, 1907. Serial No. 407,245.

To all whom it may concern:

Be it known that I, JOHN N. MOORE, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Grinding-Wheel Attachments for Sewing-Machines; 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.

This invention relates to a new and useful sewing machine attachment.

The object of my invention is to provide an ordinary sewing machine with a grinding and abrading wheel adapted to be placed upon the bobbin shaft of an ordinary sewing machine.

In the accompanying drawings in Figure 1 I have shown a bobbin holder device detached from the sewing machine and provided with one of my sewing machine grinding attachments. Fig. 2 shows a detached enlarged view partly in section illustrating a modification of the invention.

The object of my invention is to provide a neat and simple device adapted to be readily and instantly secured to the bobbin shaft of an ordinary sewing machine.

In every household it is occasionally desirable to polish, abrade or grind some household article, and in order to provide a ready and easily adjusted means for this purpose I provide an ordinary bobbin shaft A having the usual grooved pulley B adapted to be brought into frictional engagement with the driving belt of the sewing machine.

In the drawing the bobbin holder C is shown as provided with the bobbin shaft A having the grooved strap pulley B. Cast integral with and extending from this grooved pulley B is an exteriorly threaded collar 1. Upon this collar 1 is threaded a mandrel 3 having a threaded socket portion 2 engaging upon the collar 1 as shown. At its forward end this mandrel is provided with

a shoulder 4 formed by means of the reduced threaded extending stem 5 which is adapted to removably receive a nut 7. Held between this shoulder 4 and the nut 7 is an ordinary grinding or abrading wheel 6.

When bringing the wheel B into engagement with the drive belt of the sewing machine sufficient power may be imparted to the grinding wheel 6 so that the same may be used in sharpening and polishing needles and knives and other articles. A polishing or buffing wheel may be substituted for the abrading wheel 6. The mandrel 3 is of metal and acts as a fly wheel to impart steadiness of movement to the pulley B while the abrading or grinding wheel is being used.

In Fig. 2 I have shown the mandrel 13 provided with a grooved pulley 14 cast directly upon the mandrel and forming an integral part thereof. This pulley is interiorly threaded as is shown at 15 to receive the threaded collar 1 of the shaft A. The grinding wheel 6 is secured to this mandrel 13 by means of the nut 7. The advantage embraced in the modification resides in the fact that the pulley 14 is of a larger diameter than the pulley 3 so that a different speed may be imparted to the grinding wheel 6.

The device is simple of construction and readily operated and

Having thus described my said invention what I claim is—

In an attachment for bobbin shafts, a mandrel having a belt pulley at one end and with a threaded socket within the pulley adapted to engage a threaded terminal of a bobbin shaft, and means for detachably connecting an abrading element from said mandrel at the other end.

In testimony whereof, I affix my signature, in presence of two witnesses.

JOHN N. MOORE.

Witnesses:

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