UNITED STATES PATENT OFFICE.

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TATTING-SHUTTLE WINDER.

1,248,243.


To all whom it may concern:

Be it known that I, WILLIAM A. BARNETT, a citizen of the United States, and a resident of Lincoln, in the county of Lancaster and State of Nebraska, have invented a certain new and useful Improvement in Tatting-Shuttle Winders, of which the following is a specification.

My invention relates to improvements in tatting shuttle winders, and it consists in the combinations, constructions, and arrangements herein described and claimed.

An object of my invention is to provide a device for winding tatting shuttles of the type in which a pair of bowed sides is provided with a fixed reel or bobbin, and in which the thread is wound on the bobbin or reel by passing it between the ends of the bows.

A further object of my invention is to provide a device by means of which one of the spring bows may be held apart from the other, in order to facilitate the entrance of the thread between the bows.

A further object of my invention is to provide a device for winding shuttles of this type, in which the tension of the thread may be increased or decreased at will, thereby winding the thread on the bobbin tightly or loosely as desired.

A further object of my invention is to provide a shuttle bobbin winding device which consists of comparatively few parts, which is cheap to manufacture, and which does not easily get out of order.

Other objects and advantages will appear in the following specification, and the novel features of the invention will be particularly pointed out in the appended claims.

My invention is illustrated in the accompanying drawings forming part of this application in which:

Figure 1 is a perspective view showing the manner in which the winding operation is carried out;

Fig. 2 is a side view of the device;

Fig. 3 is a perspective view of the device showing the manner in which the shuttle is secured to the device;

Fig. 4 is a section along the line 4—4 of Fig. 1;

Fig. 5 is an enlarged section along the line 5—5 of Fig. 1.

In carrying out my invention I provide a base member 1 having curved end portions 2 and 3 respectively. The end portion 3 is provided with a slot A which permits the entrance of the thread 4 as shown in Figs. 2 and 5. Both of these portions 2 and 3 are curved as shown, the portion 3 to constitute a thumb-hold and the portion 2 to constitute a finger-hold, so that the base portion 1 may be grasped between the thumb and finger as shown in Fig. 1.

Rigidly secured to the base portion 1 is a bar 5, one end of this bar being formed into a hook 6 and the opposite end being bent and curved outwardly as shown at 7. The outwardly bent portion is provided with a slot 8 which extends toward the body portion of the bar 5. The bar 5 has a central portion 9 which forms a bow. It will be seen that the central portion 9 of this bow is flat, and this portion, together with the base 1, constitutes bearings for a crank shaft 10, the outer portion of the shaft being formed into a handle 11.

Rigidly secured to the end of the crank shaft is a resilient or spring bar 11, whose central portion bears on the flat portion 9, as shown in Fig. 2. This member 11 may be made of spring steel, or any other suitable material, and is provided with a pair of slidable holding members 12, each provided with a socket 12a into which one end 13 of the side of the shuttle may enter, see Fig. 5. These slidable holding members 12 may be made in any suitable shape, but I have found that, by making them of spring metal, with the socket stamped therefrom, they may be placed on the bar 11 and may be frictionally held thereon without any additional securing means. These slidable holders may be moved toward and away from the ends of the members 11, and will remain in their adjusted position.

From the foregoing description of the various parts of the device, the operation thereof may be readily understood. In Figs. 1 and 2 I have shown therein, a tattin shuttle having the curved sides 13a and 13b respectively, and the fixed real or bobbin 14. One of these curved sides, for instance, the side 13a is sprung apart slightly, and its end inserted in the socket 12a of one of the holding members 12. The opposite end of the side 13a is then bent downwardly and the
other holding member 12 is moved so that its socket slips over the end in the manner shown in Fig. 2. This holds the spring sides of the shuttle apart, that is to say, the side 13° is bent at its ends away from the side 13°, thereby providing ample space for the thread 4 to enter between the ends.

A portion of the thread having been wound on the bobbin in the beginning, the thread is passed through the slot 8 of the member 7, and thence through a guide slot 7°, in the same manner, see Fig. 5; thence through the slot 8° of the thumb-hold 3.

Now, by grasping the thumb and finger 10 holds 3 and 2 respectively, and rotating the handle 10, the thread will be wound on the bobbin. The tension of the thread may be regulated by the frictional contact of the thumb with the thumb-hold 3, since the thread 4 has to pass between the thumb and said thumb-hold. The winding operation may be rapidly conducted, since the operator has perfect control over the thread.

When the bobbin is full, it is removed from the holding members 12 by moving the latter toward the end of the spring 11. The side 13° being released, will now spring toward the side 13°, thereby restoring the shuttle to its original position, the bobbin 25 from the holding members 12 by moving the latter toward the end of the spring 11. The side 13° being released, will now spring toward the side 13°, thereby restoring the shuttle to its original position, the bobbin

however is supplied with thread. The device takes up little room, is light in weight, and simple in construction. The hook 6 may be used in picking out knots or for other similar purposes.

It will be noted that the end of the shaft 9 projects slightly beyond the spring bar 11. The normal position of this spring bar 11 is indicated in dotted lines in Fig. 2. When the side of the shuttle is engaged by the holding device 12, said side is bent by the spring member 11 over the end of the shaft 9, so that the side is straightened out as described.

I claim:—

1. A tatting shuttle winder comprising a base portion having a finger hold, a revoluble shuttle holder consisting of a spring bar having slidable holding devices for engaging the end of one side of the shuttle, thereby by springing the side from the opposed side, means for revolving said shuttle holding portion, a thread guide carried by the base at one end thereof, and means for aiding in exerting more or less tension on the thread

2. A tatting shuttle winder comprising a base portion having a finger hold, a revoluble shuttle holder consisting of a spring bar having slidable holding devices for engaging the end of one side of the shuttle, thereby by springing the side from the opposed side, means for revolving said shuttle holding portion, a thread guide carried by the base at one end thereof, and means for aiding in exerting more or less tension on the thread

at will during the winding operation.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."