No. 686,445. Patented Nov. 12, 1901.

J. B. DOBYNE.

DEVICE FOR STRIPPING WAX FROM THREAD.

(Application filed Apr. 13, 1901.)

(No Model.)

Fig. 1.

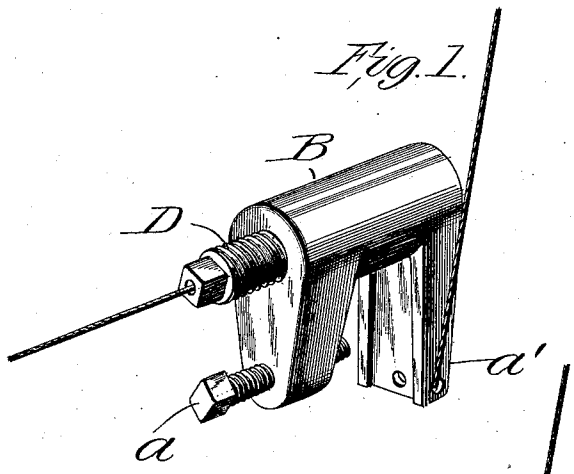


Fig. 2.

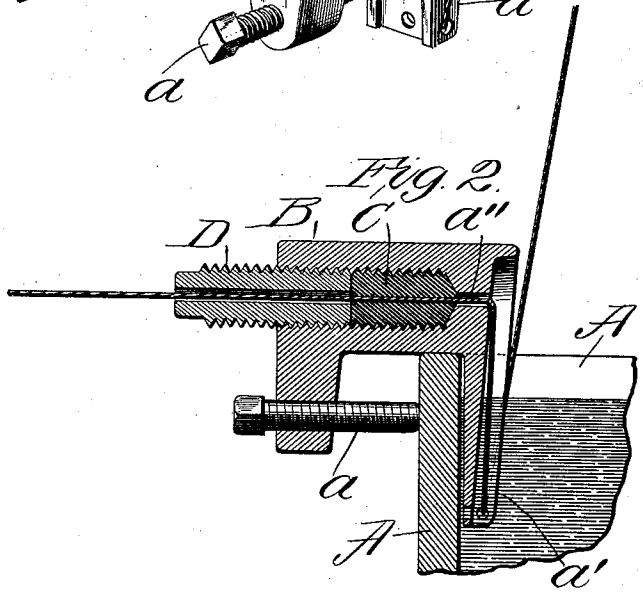
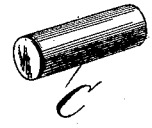


Fig. 3.



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UNITED STATES PATENT OFFICE.

JAMES B. DOBYNE, OF ST. LOUIS, MISSOURI, ASSIGNOR TO LANDIS MACHINE COMPANY, OF ST. LOUIS, MISSOURI, A CORPORATION OF MISSOURI.

DEVICE FOR STRIPPING WAX FROM THREAD.

SPECIFICATION forming part of Letters Patent No. 686,445, dated November 12, 1901.

Application filed April 13, 1901. Serial No. 55,636. (No model.)

To all whom it may concern:

Be it known that I, JAMES B. DOBYNE, a citizen of the United States, residing at the city of St. Louis, State of Missouri, have invented a certain new and useful Improvement in Devices for Stripping Wax from Threads, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view of my improved device for stripping wax from threads. Fig. 2 is a vertical longitudinal sectional view through the same, and Fig. 3 is a detail view of the stripping-block.

This invention relates to a new and useful improvement in a device for stripping wax from threads, the object being to construct a cheap and effective device of the character described which can be readily and quickly placed in position on the edge of a wax-melting pot and by a simple adjustment the pressure of the stripping device upon the thread, or rather the resistance of the stripping-block to the passage of the thread therethrough, can be quickly and readily made.

With these objects in view the invention consists in the arrangement, construction, and combination of the several parts, all as will hereinafter be described and afterward pointed out in the claims.

In the drawings, A indicates the edge of a wax-melting pot. (Shown in Fig. 2.)

B indicates the body portion of my improved wax-stripper, which has suitable lugs or projections depending from its extremities, said projections being designed to be arranged on opposite sides of the upper edge of the wall of the vessel containing the melted wax, one of said projections carrying a set-screw *a*, by which the device is held in position on the vessel. The other of said projections—that which is arranged inside of the vessel—is preferably provided with a flange *a'*, said flange being perforated to guide the thread, after the thread has received the wax, to the device. The body portion proper is formed with an opening or bore for receiving the stripping-block. This opening is reduced at one end, as at *a''*, while the larger bore is preferably threaded, as shown.

C indicates what I have designated as the "stripping-block," which stripping-block is preferably made of rubber. This block is seated against the shoulder in the opening in the body portion of the device, and in operation the thread to be waxed has one end passed through this stripping-block, as shown in Fig. 2. This stripping-block is preferably a plain cylindrical piece of rubber, as shown in Fig. 3. In Fig. 2, however, the block is shown grooved or threaded, this resulting from the lateral spreading of the rubber into the screw-threads of the body portion when the rubber is under the longitudinal pressure of the plug D.

D indicates a plug which is threaded into the opening containing the stripping-block, said plug being preferably squared at its outer end for the application of a wrench. This plug is also formed with an opening, preferably axially disposed, through which the stripped thread passes after leaving the stripping-block. By screwing up the plug the stripping-block is compressed, so that its pressure on the thread passing therethrough may be regulated as desired. In practice this stripping-block is made of such size as to easily fit in the opening designed to receive it, and when the plug is secured thereagainst the material of which the stripping-block is composed expands laterally as well as being compressed longitudinally, so that the pressure on the thread is substantially the same throughout the length of the block. While I have mentioned rubber as a preferable material, it is obvious that this stripping-block may be made of other material, or, if desired, other substance—such as oakum, waste, &c.—might be introduced and compressed by a plug instead of rubber. I prefer, however, to use rubber, because it is elastic and yielding and will strip the thread of wax more uniformly than other materials which have been tried.

I am aware that minor changes in the arrangement, construction, and combination of the several parts of my device can be made and substituted for those herein shown and

described without in the least departing from the nature and principle of my invention.

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

1. The device for stripping wax from thread herein described, the same consisting of a body portion having a bore of two diameters, the larger bore being screw-threaded for the reception of a plug and the smaller bore serving as a passage for the waxed thread, a stripping-block arranged in the inner end of said larger bore of the body portion, a plug screw-threaded into the outer end of said bore for holding said stripping-block in position, said plug having an opening therethrough in axial alinement with the smaller bore of the body portion, attaching-lugs on said body portion, of which one has means for directing the passage of the thread outwardly, and means cooperating with said attaching-lugs for removably holding the device in operative position on a wax-pot, substantially as described.

2. The combination with a wax-pot or other receptacle, of a device of the character described for stripping wax from thread passing through the wax-pot, attaching-lugs on said device, one of said lugs extending down into the wax and having means for guiding the thread, the other of said lugs extending down on the outside of said wax-pot and having an opening for a set-screw, and a set-screw passing through said lug for removably attaching the device to the wax-pot, substantially as described.

In testimony whereof I hereunto affix my signature, in the presence of two witnesses, this 10th day of April, 1901.

JAMES B. DOBYNE.

Witnesses:

GEORGE BAKEWELL,

RALPH KALISH.