F. ASHWORTH.

THREAD WAXING DEVICE.

APPLICATION FILED NOV. 22, 1909.

1,015,772.

Patented Jan. 30, 1912.

Fig. 1.

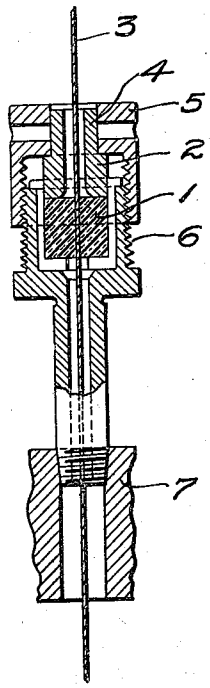
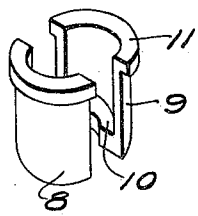


Fig. 2.



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UNITED STATES PATENT OFFICE.

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THREAD-WAXING DEVICE.

1,015,772. Specification of Letters Patent. Patented Jan. 30, 1912.

Application filed November 22, 1909. Serial No. 529,373.

To all whom it may concern:

Be it known that I, FRED ASHWORTH, a citizen of the United States, residing at Beverly, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Thread-Waxing Devices; 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.

The present invention relates to thread waxing devices for use on wax thread sewing machines.

The object of the invention is to produce a thread waxing device having a compressible perforated stripper together with improved means for supporting and compressing the plug so that when desired the plug can be readily removed from the machine.

With the above object in view the present invention consists in the devices and combinations of devices hereinafter described and claimed the advantages of which will be obvious to those skilled in the art from the following description.

The several features of the present invention will be clearly understood from an inspection of the accompanying drawing in which—

Figure 1 is a detail sectional view on an enlarged scale of the perforated plug stripper together with its supporting and compressing means and Fig. 2 is a detail perspective view of the split sleeve which receives the perforated plug stripper.

The compressible perforated plug which strips wax from the thread after it emerges from the wax pot is indicated at 1. This plug is compressed more or less by a plug compressor 2 which is perforated to permit the passage of the thread 3 and which is provided with a reduced upper end 4 seated in a cap 5. This cap is internally screw-threaded and engages an externally threaded socket 6 provided with a perforated stem having a screw-threaded engagement with the cover 7 of the wax pot.

To enable the plug 1 to be readily removed from the machine when it becomes hardened, and unfit for use, a sleeve is provided to receive the plug and this sleeve is fitted somewhat loosely into the socket 6. As illustrated in the drawing, and particularly in Fig. 2, the sleeve is split longitudinally so that it is divided into two parts 8 and 9. At its lower end the sleeve is provided with an inwardly projecting flange 10 so that the sleeve is somewhat in the form of a cup and at its upper end the sleeve is provided with an outwardly extending flange 11. The flange 10 supports the lower end of the plug 1. The sleeve is thus supported by the socket and the plug is supported entirely by the sleeve and by the compressor 2. The removal of the cap 5 relieves the compressor 2 and sleeve 8 and 9 of pressure so that the compressor, sleeve and plug can be easily removed. The separation of the parts 8 and 9 of the sleeve frees the plug and compressor and leaves the parts in condition to receive another plug.

The preferred embodiment of the several features of the present invention having been thus described, what is claimed is:—

1. A thread waxing device, having, in combination, a compressible perforated plug to strip the wax from the thread, a split sleeve to receive the plug, an externally threaded socket to receive the sleeve, an internally threaded cap mounted on the socket, and a plug compressor actuated by the cap.

2. A thread waxing device, having, in combination, a compressible perforated plug to strip the wax from the thread, a sleeve to receive the plug, an externally threaded socket to receive the sleeve, an internally threaded cap mounted on the socket, and a plug compressor actuated by the cap.

3. A thread waxing device, having, in combination, a compressible perforated plug to strip the wax from the thread, a split sleeve to receive the plug, and means for compressing the plug in the sleeve.

4. A thread waxing device, having, in combination, a compressible perforated plug to strip the wax from the thread, a sleeve to receive the plug, a socket to receive the sleeve, and means engaging the socket for compressing the plug in the sleeve while the sleeve remains stationary.

5. A thread waxing device, having, in combination, a compressible perforated plug to strip the wax from the thread, a sleeve to receive the plug provided with an inwardly projecting flange at its lower end, a socket to receive the sleeve and means for compressing the plug in the sleeve.

6. A thread waxing device, having, in combination, a compressible perforated plug

to strip the wax from the thread, a split sleeve to receive the plug provided at its lower end with an inwardly projecting flange, a socket to receive the sleeve and means for compressing the plug in the sleeve.

7. A thread waxing device, having, in combination, a compressible perforated plug to strip the wax from the thread, a split sleeve to receive the plug provided at its lower end with an inwardly projecting flange and at its upper end with an outwardly projecting flange, a socket to receive the sleeve, and means for compressing the plug in the sleeve.

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