

R. CHAPMAN.

AWL.

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1,180,975.

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Fig. 1.

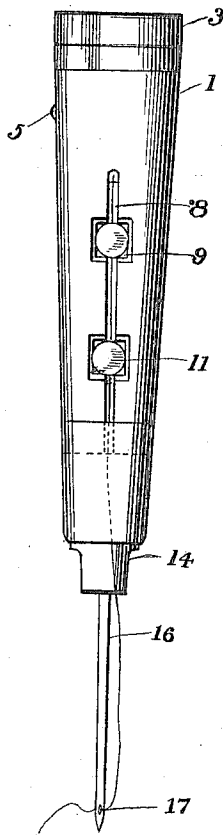


Fig. 3.

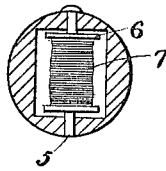


Fig. 4.

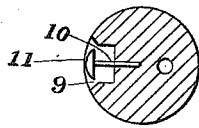
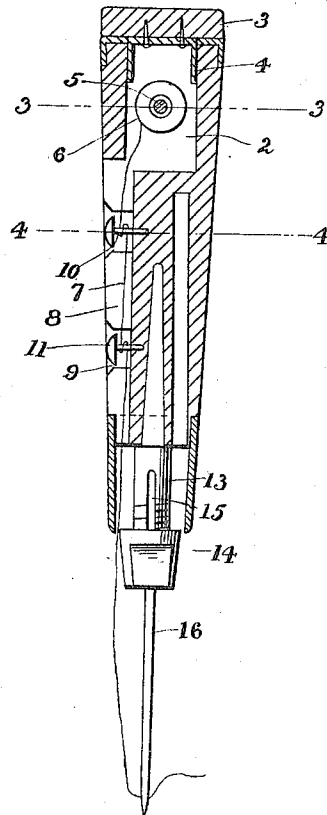


Fig. 2.



Witnesses

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To all whom it may concern:

Be it known that I, ROY CHAPMAN, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented new and useful Improvements in Awls, of which the following is a specification.

This invention relates to awls and it consists in the novel features hereinafter described and claimed.

An object of the invention is to provide in an awl structure means located in the handle thereof for supporting a thread spool and means carried by the handle for maintaining the thread at a proper tension.

With this object in view the awl comprises a handle having at one end a socket adapted to receive a thread spool, there being means provided in the socket for supporting the spool so that it may turn. A groove is located at one side of the handle and headed pins are mounted in the said groove. One end of the groove communicates with one end of the socket and the other end of the groove extends to the end of the handle. A post is supported at one end of the handle and is adapted to receive and retain a needle in the usual manner. From the spool the thread is carried along the groove and is wound around the pins and from the groove the said thread is passed through the eye of the needle.

In the accompanying drawing:—Figure 1 is a side view of the awl. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a transverse sectional view of the same cut on the lines 3—3 of Fig. 2. Fig. 4 is a similar view cut on the line 4—4 of Fig. 2.

The awl comprises a handle 1 which is preferably of wood and which is provided at one end with a socket 2. A cap 3 is adapted to close against the end of the handle and the said cap is provided at its under side with clips 4 adapted to engage the walls of the socket 2 whereby the said cap is held in position at the end of the handle and over the end of the said socket. A shaft 5 is disposed transversely across the socket 2 and is detachably mounted in the handle 1 and a spool 6 is turnably mounted upon the said shaft. A thread 7 is wound upon the said spool.

The handle 1 is provided at its side with a longitudinally disposed groove 8 one end of which communicates with the end of the socket 2 and the other terminates at the

end of the said handle. The groove 8 is provided at points between its ends with enlargements 9 in which are positioned pins 10. The pins 10 are provided at their outer ends with enlarged heads 11, the outer surfaces of which are approximately flush with the exterior surface of the handle 1. A post 13 is supported at one end of the handle 1, and a nut 14 is screw-threaded upon the said post. The post 13 is provided at one end with a series of longitudinally disposed slits 15 which are surrounded by the said nut when the nut is in position upon the post. A needle 16 is inserted in the end of the post 13 between the slits 15 and when the nut 14 is tightened upon the post, the said needle is securely held in position in the post. The needle 16 is provided in the vicinity of its pointed end with an eye 17. From the spool 6 the thread is carried along the groove 8 and is wound one or more times around each of the pins 10 and then extends along the needle 16 and passes through the eye 17 thereof. By this arrangement it will be seen that the thread is at all times maintained under a desired degree of tension between the eye of the needle and the pins 10, consequently when the awl is in use and as the thread is being passed through the material, it is prevented from becoming slack to such a degree as to entangle in the handle of the needle of the awl.

When it is desired to remove the spool 6 from the socket, the shaft 5 is withdrawn from the handle 1 and the spool 6 and consequently the spool 6 which has been previously located in the socket may be removed therefrom and another spool substituted in its stead.

The thread which is carried by the spool may be waxed or unwaxed as desired.

From the above description taken in conjunction with the accompanying drawing, it will be seen that an awl structure of simple arrangement is provided and that the same may be conveniently used for sewing heavy material, as for instance, leather, and while in use, provision is made for taking up the slack in the thread and thus preventing the thread from interfering with the awl while the same is used for sewing purposes.

Having described the invention what is claimed is:—

1. An awl comprising a handle provided at one end with a socket, a shaft passing

through the handle and the socket and detachably mounted in the handle, a cap for closing the socket, said handle having at its side a groove one end of which communicates with the socket and the other end extends to the end of the handle, a needle mounted upon the handle, and a pin located in the groove, a thread spool turnably mounted upon the shaft, the thread from the spool adapted to traverse the length of the groove and being wound around the pin.

2. An awl comprising a handle provided at the end with a socket, a shaft detachably mounted in the handle and extending transversely across the socket, a cap detachably mounted upon the handle and closing the socket, a needle carried by the handle, the handle being provided at its side with a

longitudinally disposed groove one end of which communicates with the socket and the other end extends to the end of the handle, said groove being provided at points between its ends with enlargements, pins located in the enlargements of the groove and having enlarged heads, a thread spool turnably mounted upon the shaft, the thread from the spool traversing the length of the groove and being wound around the pins and passing through the eye of the needle.

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

ROY CHAPMAN.

Witnesses:

MATILDA GARPOW,
CARRIE BRAUDOW.

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