J. W. OLIVER.

THREAD GUIDE AND SUPPORT.

APPLICATION FILED OCT. 26, 1920.

1,387,299. Patented Aug. 9, 1921.

Fig. 1.

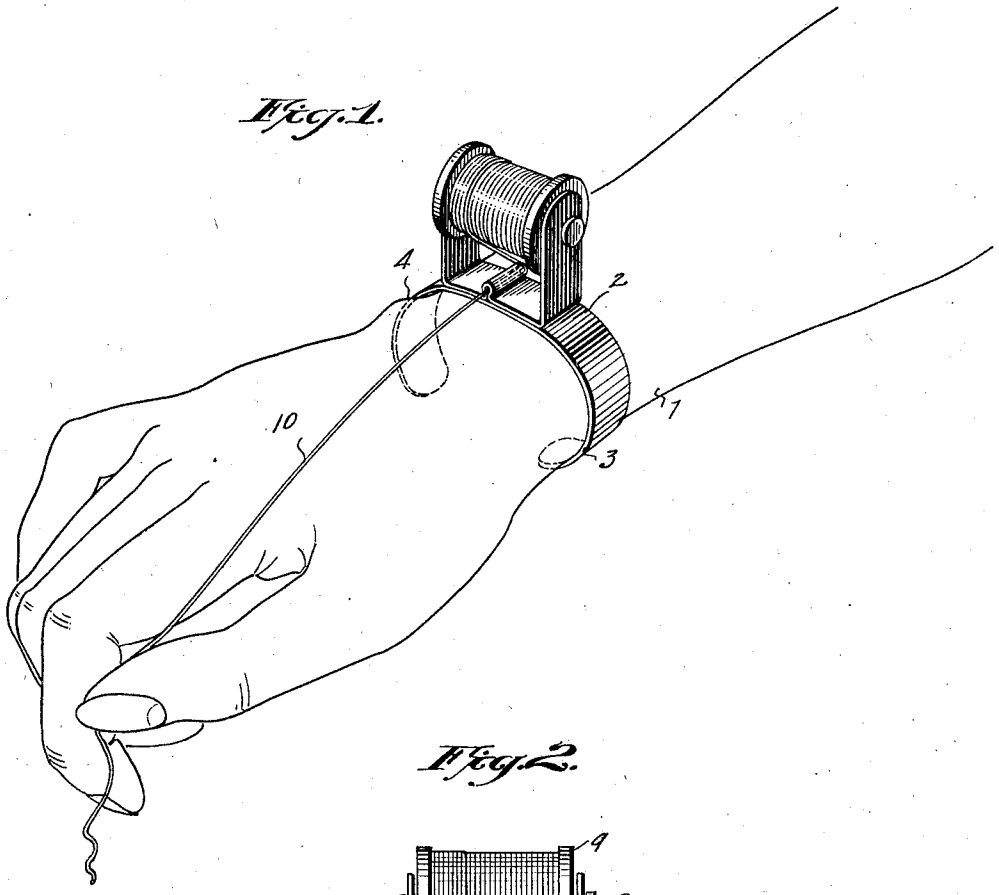
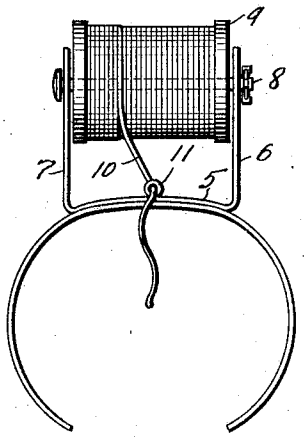


Fig. 2.



WITNESSES

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THREAD GUIDE AND SUPPORT.

1,387,299. Specification of Letters Patent. Patented Aug. 9, 1921.

Application filed October 26, 1920. Serial No. 419,728.

To all whom it may concern:

Be it known that I, JOHN W. OLIVER, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county of New York and State of New York, have invented a new and Improved Thread Guide and Support, of which the following is a full, clear, and exact description.

This invention relates to a thread guide and support, and has for an object to provide a support for thread in which the liability of the thread to be snarled or unreeled from the spool beyond a required amount is prevented.

Another object resides in the provision of a thread support and guide which is simple to manufacture, readily adaptable to convenient support in relation to the operator's hand, and which is efficient in its action in respect to the thread portion.

A still further object resides in the particular construction and arrangement of parts hereinafter described in the claims and illustrated in the accompanying drawing.

It has usually been the case with thread supports that no simple and efficient guide members have been applied thereto which would not only direct the movement of the thread to the operator's hand in a simple manner, but would efficiently act to prevent the thread, when pulled, from unreeling beyond a certain reasonable amount. My thread guide and support is designed to overcome this defect and in addition, to be very simply and cheaply made, so that the expense of manufacture is reduced to a minimum.

The invention is illustrated in the drawing, in which—

Figure 1 is a profile view showing the support and guide mounted on the wrist of an operator; and

Fig. 2 is an elevation of the device.

As shown in the drawing, the thread guide and support is adapted to be applied to the wrist portion 1 of an operator. This support is made preferably of some thin sheet metal which is preferably light, such as aluminum, and comprises a main plate member 2 having curved resilient wrist embracing portions 3 and 4 which are formed preferably integral with the main body portion 2. To one face of the body portion 2 on the back of the wrist is applied a U-shaped metallic plate 5 having upwardly extending arm portions 6 and 7 provided with suitable apertures to receive a pin shaft 8. On the shaft 8 a spool 9 is supported and adapted to carry a thread 10. On the upper face of the main leg of the U-shaped member 5 and formed of a separate piece of metal or integrally therewith as desired, is a channel member or guide 11 having an interior passage through which the thread is adapted to pass.

It will be observed that this channel member 11 is long, extending the full width of the plate portion 5 and that the aperture therein is relatively small so that as the thread 10 passes therethrough, its freedom of movement is quite limited. Therefore, as shown in Fig. 1, whenever an operator pulls on the thread 10, a certain amount of thread will be pulled through the channel member or guide 11, but by reason of the narrowness of the aperture in the channel member, the thread will meet with more friction than usual and thus will not run quite so freely. This will prevent an unnecessary unreeling of the thread 10 from the spool 9.

It will also be observed that it is preferable for the spool 9 to be so mounted on the U-shaped member 5 that the thread extends to the entrance to the channel member 11 in one direction and then through the channel member 11 in the opposite direction whereby the friction effect is increased.

It is apparent from consideration of this device that it is capable of being manufactured of any suitable sheet metal and in a minimum number of parts, which insures that its manufacture will be cheap and therefore, it can be sold at a very small price. Furthermore, it has the advantage of feeding to the operator only so much of the thread as is necessary and thereby prevents raveling or excessive unreeling of the thread.

What I claim is:

1. A thread guide and support comprising a sheet of resilient material adapted to embrace the wrist of an operator, a supporting member of sheet metal attached to the rear face thereof and adapted to support a spool of thread thereon, and a channel member formed integrally with the supporting member and having therein a long, narrow passage through which the thread is adapted to

extend and by which it is frictionally engaged to prevent unreeling.

2. A thread guide and support comprising a spool-supporting member of sheet metal adapted to support a spool of thread thereon, and a channel member formed on the supporting member, said channel member having therein a long, narrow passage only slightly larger than the thread which is adapted to extend therethrough, said thread adapted to be frictionally engaged in its movement through said passage whereby unreeling of the thread is prevented.

JOHN W. OLIVER.