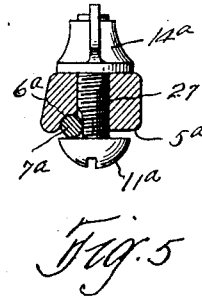
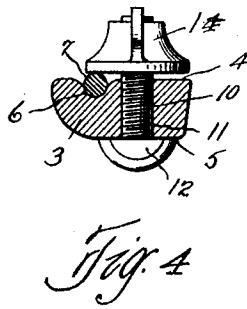
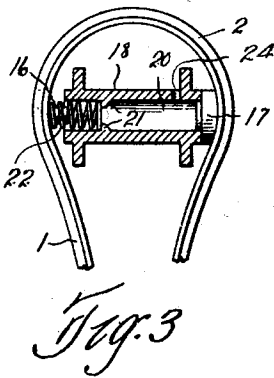
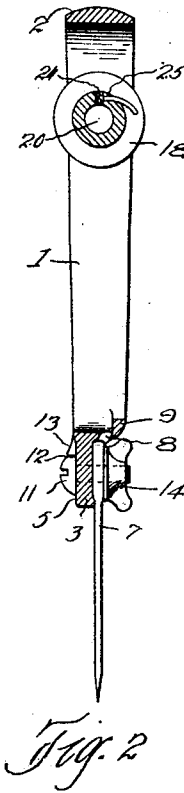
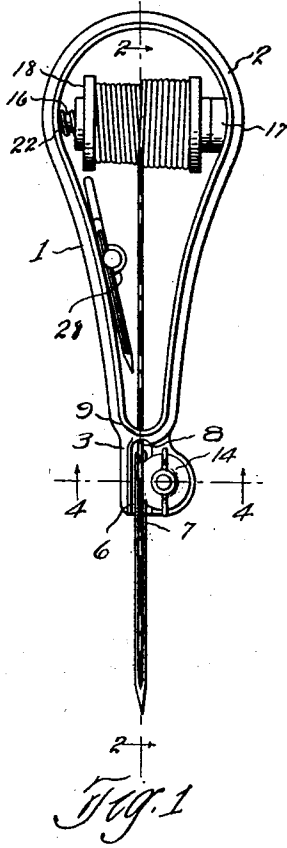


F. W. CARNALL.
SEWING AWL.
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1,409,668.

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Inventor
Frederick W. Carnall
By Hull, Smith, Brock & Wad.
Attys.

UNITED STATES PATENT OFFICE.

FREDRICK W. CARNALL, OF CLEVELAND, OHIO.

SEWING AWL.

1,409,668.

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To all whom it may concern:

Be it known that I, FREDRICK W. CARNALL, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Sewing Awls, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

This invention relates to sewing awls and has for its objects to provide an awl wherein the thread reel may be easily detached from the handle for rewinding with thread; to provide a novel thread engaging means whereby the end of the thread may be easily and quickly clamped to the reel to facilitate the winding thereon; to provide a simple and novel form of needle holding means which shall serve to hold the needle securely in operative position and also permit the needle to be carried within the handle when not in use; to provide a handle for said reel and needle which shall be simple in construction and inexpensive to manufacture, while further objects and advantages will appear as the description proceeds.

In the accompanying drawings wherein I have shown certain illustrative embodiments of my invention without intent to limit myself thereto, Fig. 1 is a plan view of my device; Fig. 2 is a section taken on the line 2—2 of Fig. 1; Fig. 3 is a detail sectional view of the thread reel and mounting therefor; Fig. 4 is a sectional view of the needle head taken on the line 4—4 of Fig. 1; and Fig. 5 is a similar view showing a modification of the needle head.

Describing the various parts by reference characters, 1 indicates the handle of my awl which is preferably a casting having a rounded end 2 and a needle holding head 3. The head 3 is flat on the upper and lower sides thereof as indicated at 4 and 5, respectively. A V-shaped groove 6 is formed in the upper face at one side thereof to receive the shank of a needle 7 and in alignment therewith is a hole 8 extending through the abutment 9 at the head end of the handle. The groove 6 is preferably deeper at the rear end thereof so as to conform to the enlarged shank of the needle 7. Extending through a vertical bore 10 in the head 3 is a bolt 11 which is provided with a flattened side portion 12 on the head thereof which is adapted to abut against the shoulder 13 to prevent rotation thereof. A wing nut

14 is threaded thereon and is adapted to contact with the shank of needle 7 positioned in groove 6 to hold said needle in operative position.

The rounded end 2 of the handle has formed on the inner opposed sides thereof the transverse lugs 16, 17 which serve to hold the thread reel 18 in position. The lug 16 is preferably longer than lug 17 and also of smaller diameter, the purpose of which will be apparent as the description proceeds. The reel 18 may also be a casting which is provided with a bore 20. A pair of lugs 21—22 project inwardly within the bore 20 and form an abutment for the spring 22 which is fitted snugly therein, and extends outwardly therefrom to engage lug 16 and abut against the inner side of handle 1 as shown in Fig. 3. Adjacent one of the side flanges of the spool 18, there is provided a small bore 24 and a slot 25 of smaller diameter intersects the lower end thereof and tapers upwardly to the surface of said spool as shown in Fig. 2.

In operation, the spool is disengaged from the handle by sliding it toward the lug 16 against the tension of spring 22 until the bore 20 is disengaged from lug 17 when the spool may be easily removed from the handle 1. The sewing thread is provided with a knot at one end thereof and said knot is then pushed into bore 24 and the thread engaged in slot 25. The knot will engage the side edges of the slot 25 where it meets bore 24 and thus securely hold the end of the thread and permit winding the spool to its capacity with thread. The spool is now positioned in the handle and the thread led through the hole 8 in the abutment 9. The needle is then positioned in the slot 6 and the wing nut tightened to hold said needle in position when the thread may be passed through the eye of said needle.

In Fig. 5 I have shown a slight modification wherein the slot 6^a is formed in the under face 5^a of the head. The bolt 11^a is provided with a flattened shank 27 which engages the needle 7^a and is prevented from turning by tightening the wing nut 14^a, it being noted in this view that the needle is held in place by the head of bolt 11^a engaging the shank thereof.

The tension of spring 22 is preferably such that it also places the reel 18 under a slight side thrust which prevents the reel from overrunning when unwinding the

thread therefrom. When not in use the wing nut may be loosened and the needle reversed by inserting it through hole 8 so as to project within the loop portion of the handle and the wing nut tightened on the shank to hold the same in position.

An extra needle may be conveniently carried in the handle as shown in Fig. 1 wherein 28 represents a lug projecting from the inner side of the handle and provided with a V-shaped groove and fastening means similar to that previously described.

Having thus described my invention, what I claim is:—

1. A sewing awl comprising a casting in the form of a closed loop, one end of said loop being of greater diameter than the other end thereof, a pair of opposed lugs formed on the inner walls of the larger end of said loop, said lugs being of unequal length and diameter and being adapted to

support a reel thereon, a projection integrally formed on the small end of said loop, a groove in said projection for receiving the shank of a needle, a hole communicating with said groove and the interior of said closed loop and means for holding said needle in position in said groove.

2. A sewing awl comprising a casting in the form of a closed loop, one end of said loop being of greater diameter than the other end thereof, a pair of opposed lugs formed on the inner walls of the larger end of said loop for supporting a transversely disposed reel, a projection integrally formed on the smaller end of said loop, a groove in said projection adapted to receive a needle and means for clamping said needle in operative position in said groove.

In testimony whereof, I hereunto affix my signature.

FREDRICK W. CARNALL.