

No. 723,981.

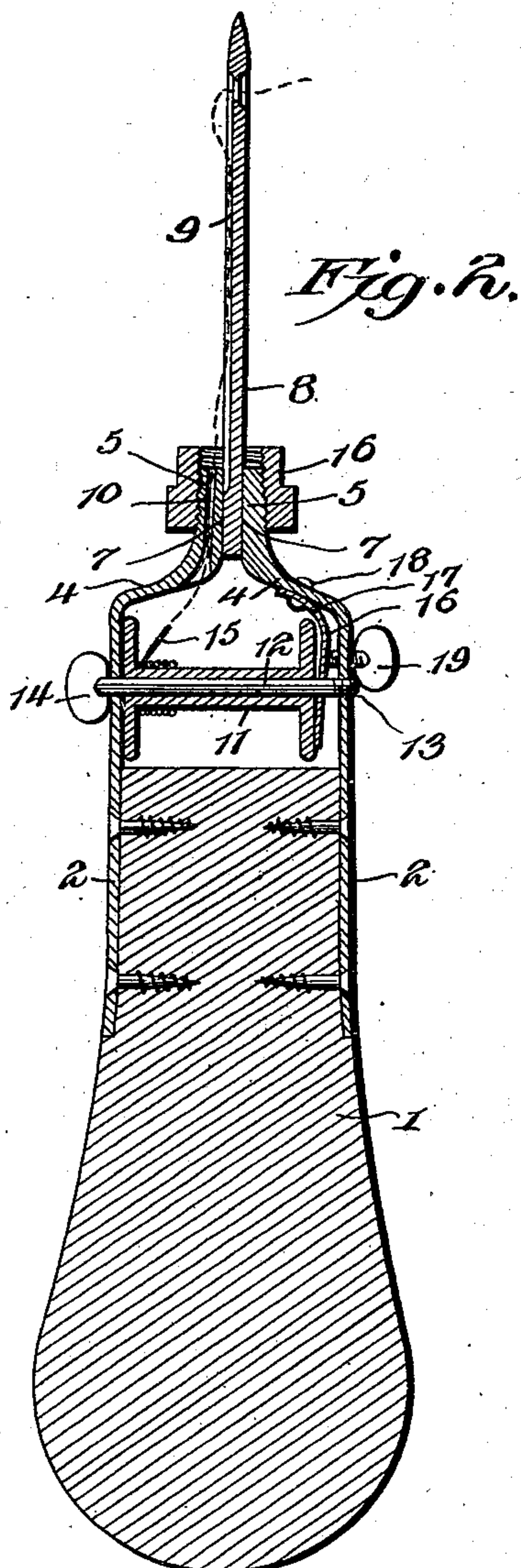
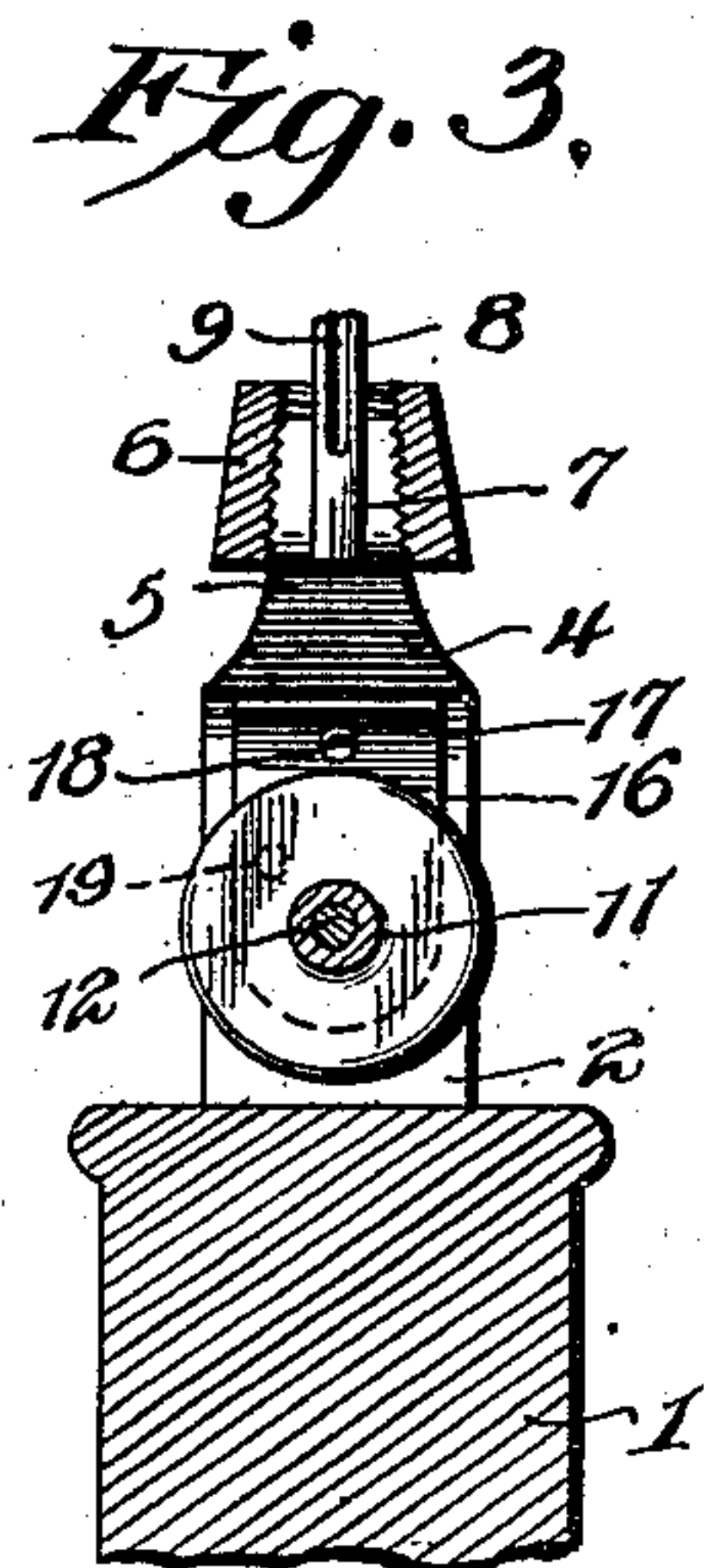
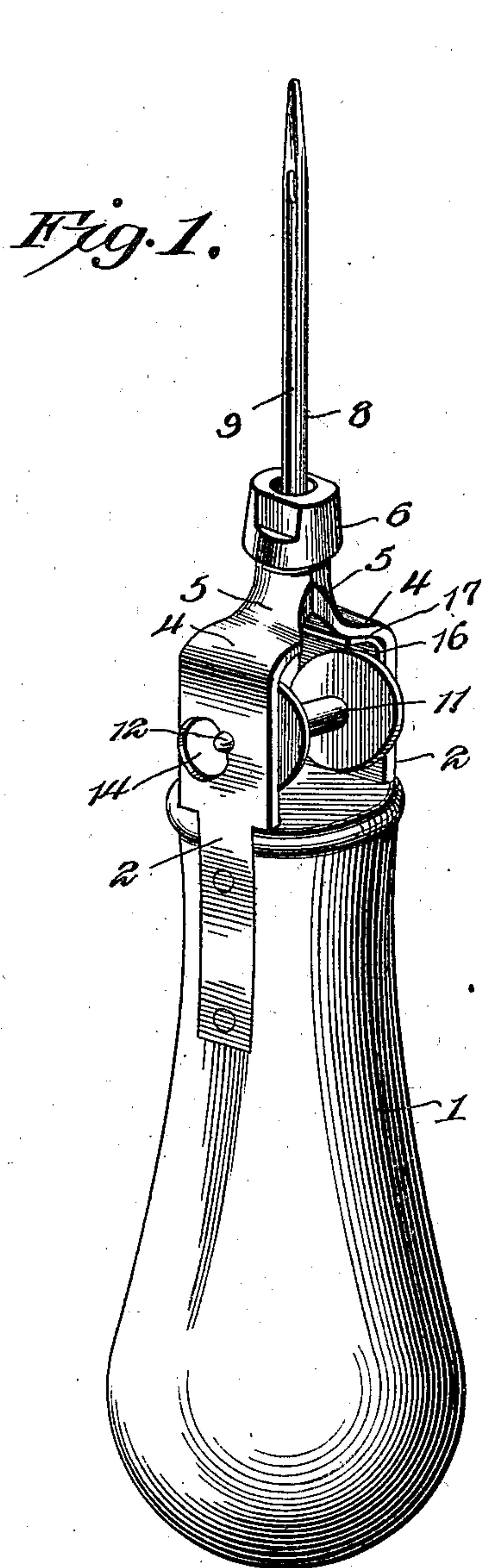
PATENTED MAR. 31, 1903.

M. R. BOTKIN.

SEWING AWL.

APPLICATION FILED OCT. 14, 1902.

NO MODEL.



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UNITED STATES PATENT OFFICE.

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SEWING-AWL.

SPECIFICATION forming part of Letters Patent No. 723,981, dated March 31, 1903.

Application filed October 14, 1902. Serial No. 127,246. (No model.)

To all whom it may concern:

Be it known that I, MURRAY R. BOTKIN, a citizen of the United States, residing at Kokomo, in the county of Summit and State of Colorado, have invented a new and useful Sewing-Awl, of which the following is a specification.

This invention relates to sewing-awls, and has for its object to provide an improved device of this character wherein the sewing-thread is carried by a spool mounted at the forward end of the device in close proximity to the needle, so as to insure an effective feeding of the thread from the spool to the needle and also to have the thread in full view of the operator.

Another object is to provide for the convenient application and removal of the needle without interfering with the thread-spool in any manner whatsoever and to have the thread-spool removable independently of the needle.

It is furthermore designed to provide for effectually guiding the thread from the spool to the needle in a simple and convenient manner and also to arrange for placing any desired tension upon the thread for the purpose of preventing a too rapid feed of the thread.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a perspective view of a sewing-awl constructed and arranged in accordance with the present invention. Fig. 2 is a longitudinal sectional view thereof. Fig. 3 is a cross-sectional view on the line 3 3 of Fig. 2.

Like characters of reference designate corresponding parts in all the figures of the drawings.

In carrying out the present invention there is provided a handle 1, made of wood and having the common or ordinary shape of awl-hand-

dles. At the forward end of the handle is a pair of metallic arms or members 2, which are disposed at opposite sides of the handle and projected longitudinally forward therefrom, with their shanks secured to the outer faces of the handle and let in flush therewith. The outer end portions of the arms are bent or directed inwardly, as at 4, and then extended outwardly and formed into semicylindrical jaw members 5, which are externally screw-threaded for engagement with the clamping-nut 6 and provided upon their inner faces with corresponding longitudinal grooves 7 to form a seat for the reception of the needle 8, the latter being preferably provided in one side with a longitudinal groove 9, leading from its rear end to its eye. One of the jaws is provided with a longitudinal perforation 10, which extends entirely through such jaw from one end to the other and is designed to form a thread-guide, as will be hereinafter described.

Within the frame formed by the arms or members 2 is a spool 11, which is mounted upon a pin 12, which passes loosely through the spool and also pierces the arms, one end of the pin being screw-threaded, as at 13, to engage the screw-threaded opening in one of the arms, while the opposite end of the pin is provided with a laterally-enlarged head or finger-piece 14 for convenience in applying and removing the pin. The thread 15, which is wound upon the spool, passes outwardly through the perforation or thread-guide 10 in one of the jaws, the groove in the needle being disposed adjacent to said guide, so as to receive the thread therefrom, whereby the thread lies close to the needle throughout the length of the shank thereof and is thereby not liable to bind upon the work.

To prevent a too-rapid feed of the thread, there is a tension device consisting of a spring-plate 16, interposed between one end of the spool and the adjacent arm or member 2, with the pin or spindle of the spool loosely piercing the same. The inner end of the spring is loose, while its outer end is bent or bowed laterally inward, as at 17, and secured to the shouldered portion of the arm, as at 18, there being a set-screw 19 piercing the arm, with its inner end engaged with the

spring-plate, whereby the latter may be forced against the adjacent end of the spool with any degree of tension to prevent a too-rapid feed of the thread.

5 From the foregoing description it is apparent that the jaws 5 and the nut 6 form a needle-holder for the removable support of a needle, and the latter may be applied or removed independently of the thread-spool, and
10 vice versa. Furthermore, the thread upon the spool is always visible, whereby the operator may know when to replenish the spool before it has entirely given out. Another advantage is that the thread-spool is located
15 at the forward end of the handle, and thereby in close proximity to the rear end of the needle, whereby the thread is fed directly from the spool to the needle, and by reason of the tension device there is no looseness or
20 slack in the thread as it passes from the spool to the needle.

What is claimed is—

1. A sewing-awl comprising a handle, opposite arms carried by and projected at the
25 forward end thereof, and provided at their outer ends with means for engaging a needle, and a thread-spool rotatably mounted between the arms and in front of the handle.

2. A sewing-awl comprising a handle, opposite arms carried by and projected at the
30 front end thereof with needle-clamping jaws at their free outer ends, means to clamp the jaws upon the needle, and a thread-spool rotatably mounted between the arms and transversely across the front end of the handle.
35

3. A sewing-awl, comprising a handle, a pair of arms or members carried by and projected at the front end of the handle, needle-clamping jaws carried by the outer ends of
40 the arms, one of the jaws having a thread-guide, means to clamp the jaws upon a needle, and a thread-spool mounted between the arms and across the front end of the handle.

4. A sewing-awl, comprising a handle, arms
45 carried by and projected at the front end of the handle, externally-screw-threaded needle-clamping jaws carried by the outer ends of the arms, a clamping-nut embracing the jaws, and a thread-spool mounted between the
50 arms and across the front end of the handle.

5. A sewing-awl, comprising a handle, a pair of arms secured to and projected in front of the handle, the outer portions of the arms being extended inwardly and then extended
55 longitudinally outward and formed into needle-clamping jaws which are externally screw-

threaded, a nut embracing the jaws, and a thread-spool mounted between the arms and disposed transversely across the front end of the handle. 60

6. A sewing-awl comprising a handle, arms carried by and projected in front of the handle, and provided at their outer ends with means for engaging a needle, a thread-spool disposed between the arms, and a removable
65 pin piercing the arms and forming a journal for the spool.

7. A sewing-awl comprising a handle, arms carried by and projected in front of the handle, and provided at their outer ends with
70 means for engaging a needle, a thread-spool rotatably mounted between the arms, and a tension device disposed between one end of the spool and the adjacent arm and in frictional engagement with the spool. 75

8. A sewing-awl comprising a handle, arms carried by and projected in front of the handle, a thread-spool mounted between the arms, a spring carried by the inner side of one of the arms and frictionally engaging the spool, 80 a set-screw piercing one of the arms and engaging the spring to vary the pressure of the latter upon the spool, and needle-holding means carried by the outer ends of the jaws.

9. A sewing-awl comprising a handle, a pair
85 of arms carried thereby and projected in front thereof with their outer ends extended inwardly and thence longitudinally outward to form needle-clamping jaws, which are externally screw-threaded and are provided in
90 their inner faces with registered longitudinal grooves for the reception of a needle, one of the jaws having a longitudinal perforation to form a thread-guide, a clamping-nut engaging the screw-threaded parts of the jaws, 95 a thread-spool rotatably mounted between the arms and transversely across the forward end of the handle, a spring carried by one of the arms and bearing against the adjacent end of the spool, and a set-screw piercing
100 said arm and bearing against the spring to vary the pressure of the latter against the spool.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in
105 the presence of two witnesses.

MURRAY R. BOTKIN.

Witnesses:

JOHN W. COLCORD,
JAS. W. DOWD.