

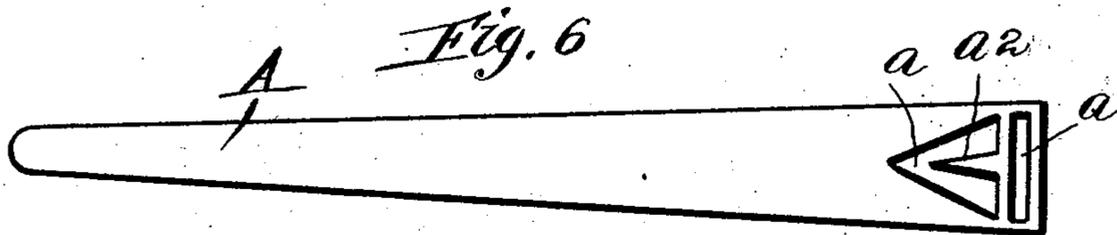
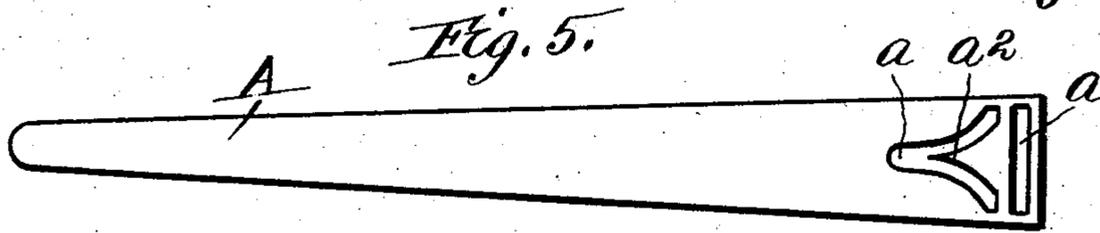
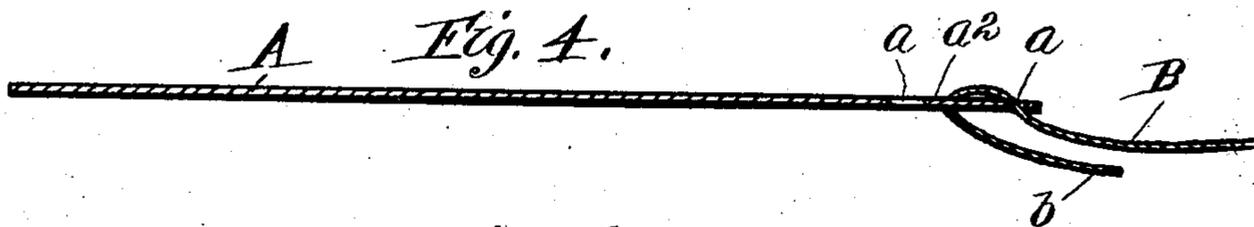
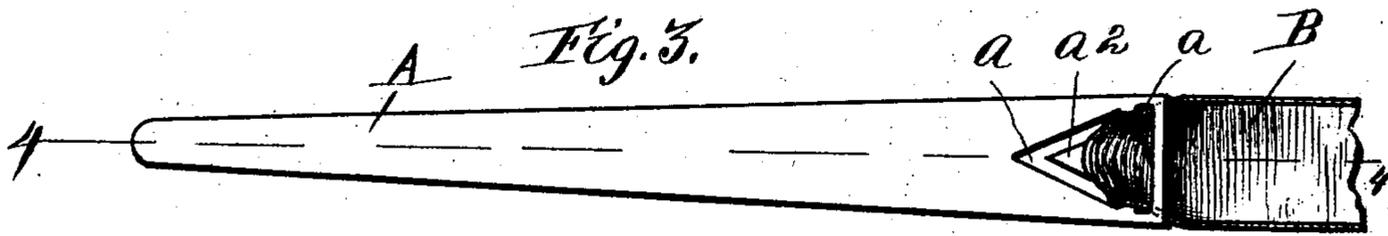
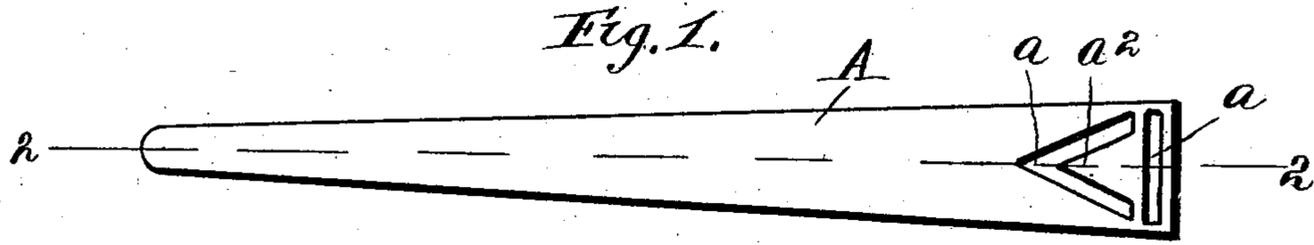
No. 696,185.

Patented Mar. 25, 1902.

E. B. NOYES.
TAPE NEEDLE.

(Application filed Aug. 5, 1901.)

(No Model.)



Witnesses:

M. Paul Noyes.

Herbert F. Oberfell.

Inventor:

Emma B. Noyes

by
Arthur H. Leonard Atty.

UNITED STATES PATENT OFFICE.

EMMA B. NOYES, OF CHICAGO, ILLINOIS.

TAPE-NEEDLE.

SPECIFICATION forming part of Letters Patent No. 696,185, dated March 25, 1902.

Application filed August 5, 1901. Serial No. 70,900. (No model.)

To all whom it may concern:

Be it known that I, EMMA B. NOYES, a resident of Chicago, county of Cook, State of Illinois, have invented a certain new and useful
5 Improvement in Ribbon-Needles, of which the following is a specification.

My invention relates to needles especially adapted for threading tape, ribbon, or the like through fabrics, and has for its object the provision of a needle so formed as to prevent the ribbon, tape, or the like from being pulled out of its eye and to provide a needle of this character free from projections or features which would tend to render it more or less
10 difficult to draw the needle through openings in cloth or fabric, it being also an object of my invention to provide a needle of such form as to permit the tape or ribbon to be drawn flatwise through the cloth or fabric.

To the foregoing and other useful ends the needle can be made of any suitable material—as, for example, sheet metal—it being preferable to employ metal which will not readily bend. The needle thus made of flat or sheet
20 metal can be provided with a plurality of eyes for the ribbon or tape, and in order to prevent the same from pulling out one of said eyes can be formed so as to provide a tongue. When the tape or ribbon is threaded through
30 the eyes of the needle, said tongue engages the same and holds it firmly in place, the end of said tongue being preferably sharpened so as to readily pierce the ribbon, tape, or like material. In this way the needle is adapted
35 for use in threading ribbon, tape, or other like flat material through cloth or fabric and in so doing there is no danger of the ribbon or tape being pulled away from the needle. Furthermore, with the provision of a tongue for engaging and holding the ribbon or tape there
40 are no projections or other features on the needle which would tend to make it difficult to draw the latter through the cloth or fabric. Furthermore, the formation of the needle is
45 such that when the tape or ribbon is applied the same does not pucker or fold lengthwise, but remains flat and in condition to be drawn flatwise through the openings in the cloth or fabric.

The nature and advantages of my invention will, however, hereinafter more fully appear.

In the accompanying drawings, Figure 1 is a

plan of a ribbon-needle involving the principles of my invention. Fig. 2 is a section on line 2 2 in Fig. 1. Fig. 3 is a view similar to
55 Fig. 1, with the exception that in this case a ribbon is shown threaded through the eyes of the needle. Fig. 4 is a section on line 4 4 in Fig. 3. Figs. 5 and 6 illustrate needles with
60 tongues of different forms.

As thus illustrated, the needle A may, as previously stated, be of any suitable material, but preferably of thin sheet metal, and it being desirable that the metal be one which will not readily bend. The needle shown is tapering
65 in form and is provided with a rounded or blunted point. The opposite end of the needle is preferably provided with a plurality of transverse eyes, whereof at least one is of such form as to provide a tongue for en-
70 gaging and holding the ribbon. In the drawings the needle is provided at its broadened end with a transverse eye *a* and also with an adjacent transverse eye *a'*, which latter is in this case V-shaped in form, the point of the
75 V pointing toward the rounded or blunted point of the needle. In effect this V-shaped eye *a'* provides a tongue *a²*, which also points toward the rounded or blunted point of the
80 needle. The end of this tongue is preferably sharpened to enable it to pierce the ribbon. In use the ribbon is threaded through the eyes *a* and *a'* in the manner shown in Figs. 3 and 4. Thus applied to the needle the rib-
85 bon is pierced, or at least engaged, by the pointed end of the tongue *a²*. In this way the said tongue prevents the ribbon from being drawn from the needle—that is to say, it prevents the ribbon, tape, or other like ma-
90 terial from accidentally slipping through the eyes of the needle. It will be readily understood, however, that should it be desired the ribbon can be readily removed from the needle by drawing the end portion *b* of the rib-
95 bon toward the point of the needle to an extent to disengage the ribbon from the pointed tongue. The needle thus formed and constructed is adapted for use in threading ribbon, tape, or like material through cloth or
100 fabric, and it will be seen that when thus used the tongue *a²* effectively prevents the needle from accidentally being pulled away from the ribbon. It will also be seen that the needle is free from all projections or features which

would tend to in any way make it difficult to draw the needle through cloth or fabric. The transverse or slot-like eye *a* and the V-shaped eye *a'* are, as illustrated, arranged close together at the head of the needle, and these two eyes, or at least the transverse eye *a*, are of the same width as the tape or ribbon, thereby permitting the application of the ribbon to the needle without puckering or folding lengthwise. In other words, the head of the needle is so formed as to hold the tape or ribbon perfectly flat and smooth and in condition to be drawn flatwise through the openings in the cloth or fabric. The eye *a'* is, as previously stated, preferably V-shaped or substantially V-shaped in form, as illustrated by Figs. 1, 5, and 6. It is obvious that the form of the tongue *a²* can be varied without departing from the spirit of my invention. I do not limit myself to the precise form and construction shown and described.

What I claim as my invention is—

1. A flat or flattened ribbon-needle adapted to be manipulated by hand, and having its head formed with a narrow transverse slot located at the end of the needle, and having also an eye located between said slot and the point or end of the needle which is inserted through the cloth or fabric, said eye being arranged adjacent to said transverse slot and

having a spur or point extending in the direction of said point or end of the needle which is inserted through the cloth or fabric, said spur or point being adapted to engage or pierce the ribbon at the point where the latter is folded or doubled back, and the said narrow transverse slot being adapted to hold the ribbon flat and prevent the same from twisting, substantially as described.

2. A ribbon-needle consisting of a flat or flattened strip of metal of tapering form, the broadened head portion of the needle being provided at its extreme end with a narrow transverse slot adapted to serve as an eye for the needle, and such broadened head portion of the needle being also provided with an adjacent V-shaped eye having a pointed tongue adapted to engage and hold the ribbon, the narrow transverse slot or eye at the extreme end of the head portion of the needle extending substantially across the needle-head, whereby the ribbon can be substantially of the same width as the needle, and also whereby the ribbon is held flat and prevented from rolling or folding up, substantially as described.

EMMA B. NOYES.

Witnesses:

M. PAUL NOYES,
ARTHUR F. DURAND.