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KNOT TYING ATTACHMENT FOR PENCILS

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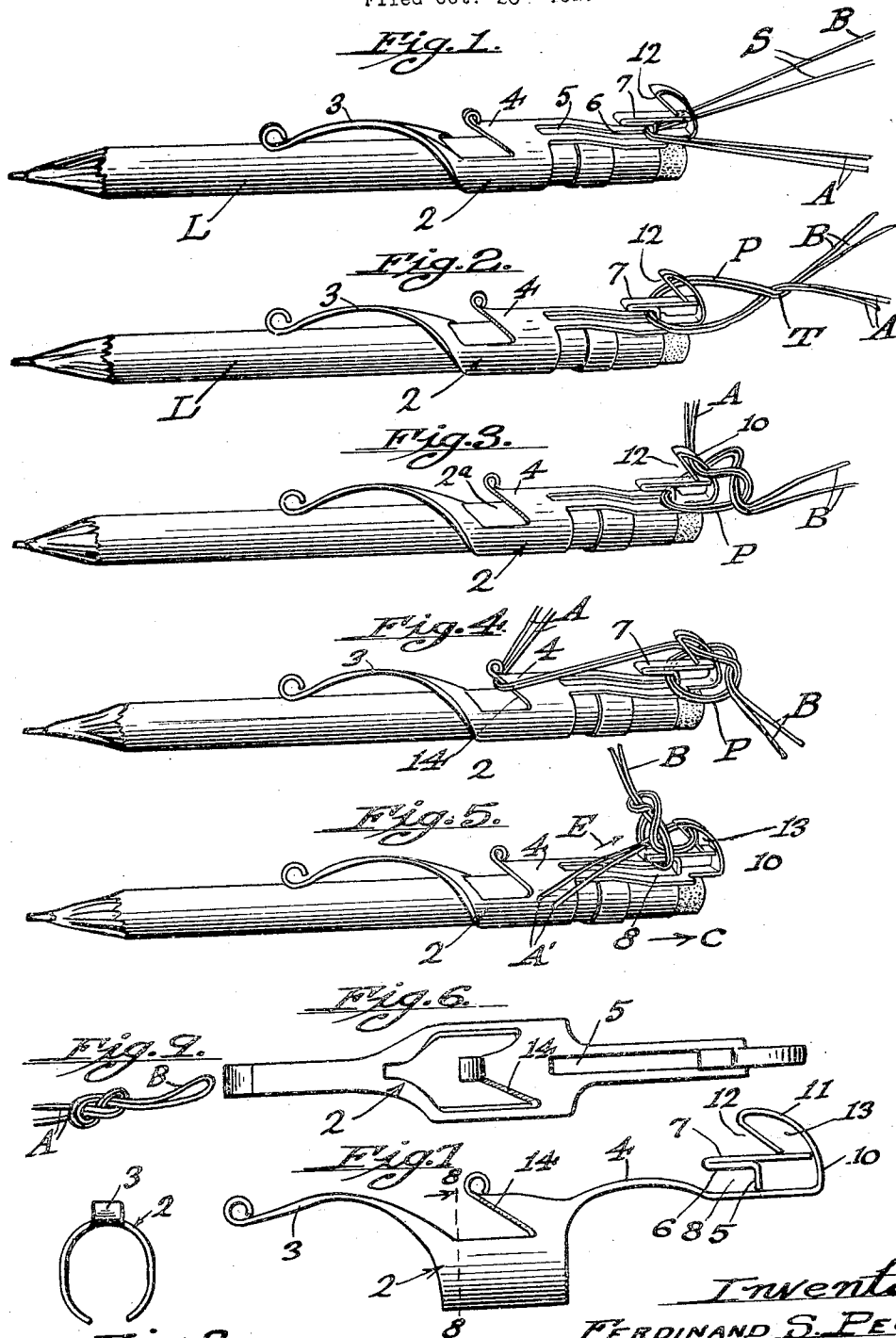


Fig. 8.
Witness:
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UNITED STATES PATENT OFFICE.

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KNOT-TYING ATTACHMENT FOR PENCILS.

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To all whom it may concern:

Be it known that I, FERDINAND S. PECK, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Knot-Tying Attachments for Pencils, of which the following is a specification.

This invention relates to means for facilitating the tying of a knot or string around a bundle or parcel.

An object of the invention is to provide an extremely simple device that may be attached to a common lead pencil or other convenient body to form a handle and support for the device.

Another object is to provide a pencil attachment including a knot tying means and also to provide a cutting means to sever the cord after the knot has been tied.

Other objects and advantages will be made manifest in the following specification of an embodiment of the invention illustrated in the accompanying drawing, wherein:

Figure 1 is a perspective showing the device in the first step of operation.

Figure 2 is a perspective showing the second step of operation.

Figure 3 is a perspective showing the third step of operation.

Figure 4 is a perspective showing the fourth step of operation.

Figure 5 is a perspective showing the fifth step of operation.

Figure 6 is a plan of the detached device.

Figure 7 is a side elevation of the device.

Figure 8 is a cross section on line 8—8.

Figure 9 is a perspective of the completed knot.

The device consists of a split resilient clamp body 2 of a size to clip a supporting object such as a lead pencil L. One end of the clamp body is provided with a spring finger 3 operative in the usual pencil clip manner to the cloth of a vest or coat pocket.

From the opposite end of the clamp body 2 there extends a shank 4 of suitable dimensions and this is longitudinally slotted at 5; the metal punched out in the formation of the slot being bent upwardly at 5 and then forwardly at 6 and returning on itself at 7 thus forming a hook space 8. The remote end of the shank 4 is bent upwardly at 10 and curved forwardly at 11 and then inwardly, obliquely at 12; the oblique end 12

rests yieldingly on the outer end of the tail 7 which end closes up to the part 10. There is thus formed a normally closed eye 13 between the tail 7 and the part 11—12.

It might be stated at this point that the parts 7—12 are yieldably separable.

A portion of the body 2 is provided with an aperture 2^a and on the edge of this aperture there is disposed a cutter or cutting edge 14.

The attachment is adapted to be clipped onto a pencil or other convenient object and in the operation of tying a knot in string S, comprising any suitable number of portions the instrument is drawn against the string as shown in Fig. 1 so that the string will pass into the hook space 8 under the hook end 6.

The next step is to give the pencil a turn as shown by the arrow in Fig. 2 to make a complete revolution which will produce a twist T and form a loop P. The portions B of the string represent that part leading from the parcel around which the string is wrapped and the portions A represent excess string from the ball or roll.

The next step is to draw the string part A under the end 12 and pull it into the eye 13 which is done by pulling the instrument while the cord portions are tensioned with the result that the tail 7 of the oblique end 12 relatively separate.

Next, as seen in Fig. 4, the portions A of the cord are then led along the cutting edge 14 so that the cord is cut leaving the ends A' Fig. 5.

To disengage the knot from the device the instrument is then shifted in the direction of the arrow C Fig. 5 while the cord portions B are held stationary. This results in the slipping of the bight P of the knot from the hook space 8. As this occurs the string ends A' slip back through the bight as shown by arrow E and escape through and from the eye 13.

It is to be understood that the cord or string and the knot forming process have all been illustrated diagrammatically and on a much enlarged scale in order to obtain clarity of description and illustration since, obviously, in the actual formation of the knot as shown in Fig. 9 the cord would be under such tension as to make a comparatively compact and tight knot.

From the above it will be seen that I have provided an attachment for pencils

or other convenient objects whereby a clerk or other operative may quickly and easily tie a good knot in a string wrapped around a parcel or bundle and may sever the cord 5 or string at the completion of the tying of the knot without requiring the use of a separate cutting instrument or without using the hands as means for forcibly breaking the cord.

10 It will be seen that the device may be made practically entirely of a piece of sheet metal punched struck up and bent to produce the desired form and arrangement of the elements of the instrument. This provides, therefore, for the manufacture of 15 a substantial and efficient knot tying pencil attachment of low cost and of convenient pocket form and of such ease of operation as not to require any particular skill in its 20 use.

Further embodiments, modifications and variations may be resorted to within the spirit of my invention.

What is claimed is:

25 1. A knot tying device comprising parts forming an open mouthed hook to receive a string bight and also forming an eye having a normally closed yieldable side part, into which eye a portion of a string may 30 be drawn during the process of forming the knot.

2. A device for tying a knot comprising a hook forming part and an eye forming part, one side of the eye structure being 35 yieldable so as to enable the entrance of a cord into the eye.

3. A knot tying device including a body portion, a shank extending from said body

and being slotted, the material pushed from the shank to form the slot being bent into 40 the form of a hook, and an end portion of the shank being bent into the form of a loop to produce a closed eye.

4. A knot tying device including a body portion, a shank extended from said body 45 and being slotted, the material pushed from the shank to form the slot being bent into the form of a hook, and an end portion of a shank being bent into the form of a loop to produce a closed eye, the eye having side 50 parts relatively separable to permit the entrance of a cord into the eye.

5. A device for tying a knot, comprising a body, a portion struck out from said body and bent to form a hook, the end of the body 55 being bent to form a closed eye.

6. A device for tying a knot, comprising a body, a portion struck out from said body and bent to form a hook, the end of said body being bent to co-operate with said 60 struck out portion to form a closed eye.

7. A device for tying a knot, comprising a body, a portion struck out from said body and being reversely bent upon itself to form an open mouth hook, the reversely bent portion co-operating with the end of said body 65 to form a closed eye.

8. A device for tying a knot comprising a body, an open mouth hook formed upon said body, and a normally closed eye formed 70 upon said body, said hook and said eye being in alignment.

In testimony whereof I have signed my name to this specification.

FERDINAND S. PECK.