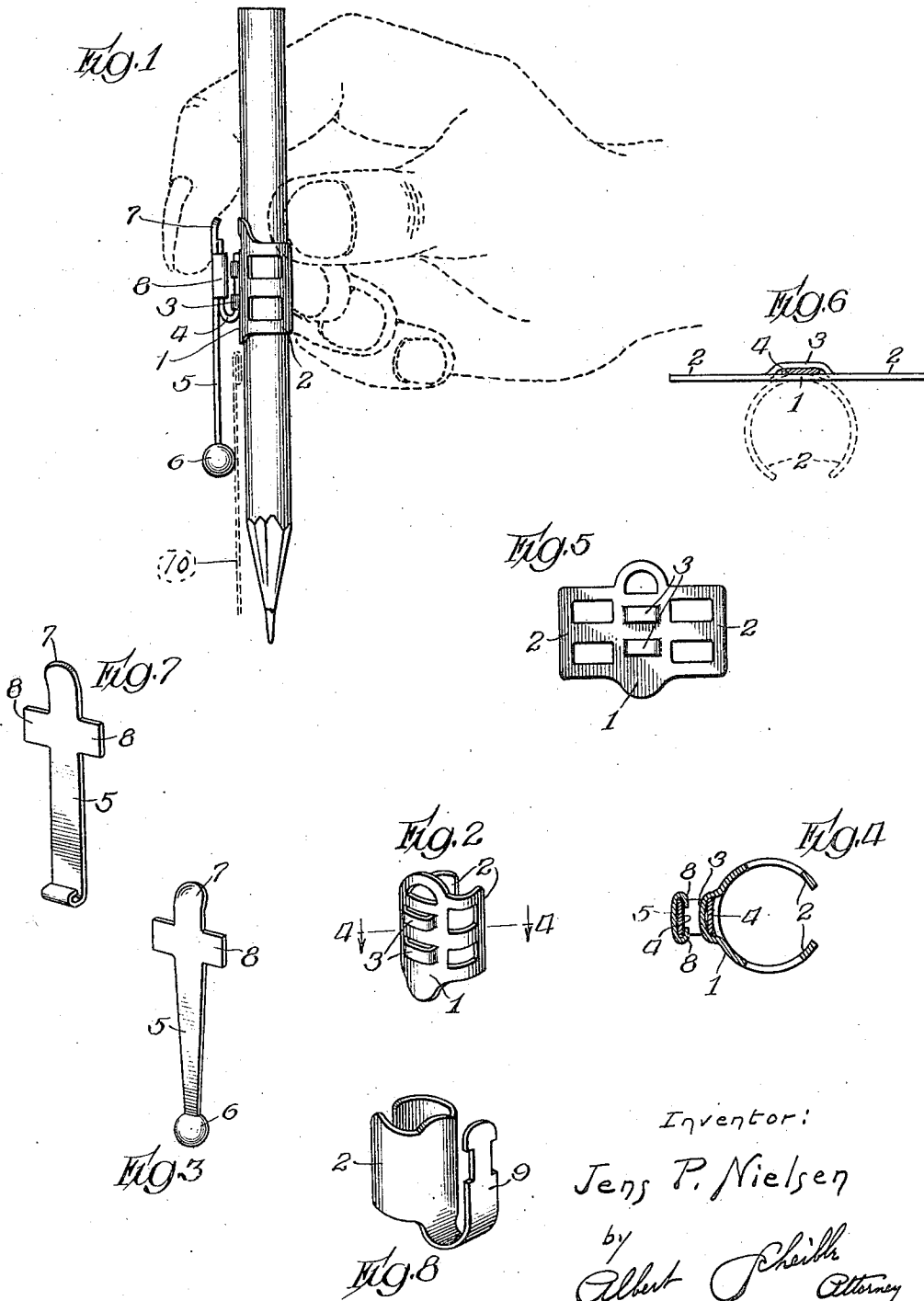


J. P. NIELSEN.
PENCIL CLIP.
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To all whom it may concern:

Be it known that I, JENS P. NIELSEN, citizen of the United States, residing at Chicago, Illinois, have invented certain new and useful Improvements in a Pencil Clip; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to clips as used for detachably retaining pens or pencils in pockets, and more particularly to a clip of this kind arranged so that it can readily be released by the pressure of a finger on one end of the spring-pressed tongue which clamps the holder to the wall of the pocket when it is in use. For this purpose, my invention aims to provide a novel construction which will permit the easy and speedy assembling of the parts in firmly united relation to one another, and which preferably will also permit the use of a spring made of a stiffer material than that demanded by the forming operations as required both for the tongue of the clip and for the band portion which encircles the pen or pencil. More particularly, my invention aims to provide a construction for this purpose in which the band portion is firmly interlocked with the resilient portion during the forming of the band, and in which the firm interlocking of these parts can readily be obtained without notching or otherwise indenting the spring. It also aims to provide a simple method for assembling such parts in firmly united relation to one another without employing rivets or other auxiliary fastening elements. Still further and more detailed objects will appear from the following specification and from the accompanying drawings, in which—

Fig. 1 is a side elevation of a pencil clip embodying my invention, showing the same as used on a pencil and indicating in dotted lines the position of a hand releasing the clip from a pocket.

Fig. 2 is a perspective view of the band portion of the clip.

Fig. 3 is a perspective view of the stem portion or pressure arm of the clip before this portion is attached to the spring.

Fig. 4 is an enlarged transverse section through the band portion of the clip taken along the correspondingly numbered line of Fig. 2.

Fig. 5 is an elevation of the blank for the band of Fig. 2, showing the same after the straps have been raised on the same but before the band is curved to fit the pen or pencil.

Fig. 6 is an enlarged bottom view of the same blank, also having dotted lines to show the curvature into which the wings of the blank are afterwards formed.

Fig. 7 is a perspective view similar to Fig. 3 but showing another type of stem for a pencil clip embodying my invention.

Fig. 8 is a perspective view showing a band member suitable for another embodiment of my invention, namely one in which the spring is integral with the band and in which the free portion of the spring is recessed to interlock with the wings on the stem of the proposed clip.

In constructing a pencil clip after the manner of Figs. 1 to 6 inclusive, I first form a blank out of resilient sheet metal such as brass or steel, which blank has a central back 1 and a pair of lateral wings 2 at opposite sides thereof. I also form from the back 1 at least one strip 3 extending transversely of the back and raised from the said back by a sufficient distance to permit the ready sliding of one end of a spring 4 between the same, thereby producing what is shown in Fig. 5. The spring 4 desirably consists of a flat piece of strip spring steel, such as a piece of clock spring, bent into a simple U-shape.

I also (and desirably by punch press operations) blank and form the stem or pressure arm for the clip, which stem desirably comprises a shank 5 terminating in a ball 6 at its lower end and in a finger engaging tip 7 at its upper end, and having a pair of lateral wings 8 disposed at opposite sides of it and at a relatively short distance from the upper end 7. I then secure the spring 4 to this stem by turning the wings 8 over one end of the spring so as to clamp this portion of the spring between them after the manner of Fig. 4, this being readily done by a simple punch press operation. After the stem has thus been rigidly secured to the spring, I slip the other end of the spring between the back 1 and the strap or straps 3 of the band member of the proposed clip, or into the position of Fig. 6, after which subject the band to the forming operation which gives the curves its wings into the shape shown in Fig. 4. Dur-

ing this forming operation the portions of the straps 3 which connect the rear thereof with the wings 2 will tend to curve into alinement with these wings, and will also
 5 tend to curve the interposed portion of the spring, thus causing the ends of the strap to bite into the adjacent edges of the spring and also causing the strap to clamp the spring against the back of the band. By
 10 so doing I therefore readily obtain a firm interlocking of the band with the spring and can do this without previously notching or in any way indenting the spring.

Thus assembled, the resulting clip presents the upper or pressure-receiving end 7 of the stem where this can readily be reached by a finger of the hand grasping the pencil, so that the clip can easily be released from a pocket by pressure exerted between the thumb and the forefinger after the manner shown in Fig. 1. Moreover, since I can make the spring portion of a material which could not be formed to shapes such as those required for either the stem or the band portion of my clip, I can obtain a permanent
 25 and high resiliency in the spring. Likewise, since no notching, perforating or other indenting of the spring is required, this part is very cheaply manufactured; and since no rivets or other auxiliary fastening members are needed, the entire cost of the clip can be kept quite low. I am therefore able to produce a pen or pencil clip at a low cost, while providing both durability and a high degree
 30 of permanent resiliency and while permitting the resulting clip to be manipulated with ease when the pen or pencil is to be inserted in a pocket 10 or withdrawn from the latter.

40 However, while I have heretofore described my invention in a highly desirable embodiment, and have pictured the same in an ornamental form including a ball tip 6 for the stem and an ornamental opening in the wings of the pocket member, I do not wish to be limited to these or other details of the construction and arrangement thus disclosed. Obviously, various changes in the same, as well as in the materials employed, could be
 45 made without departing either from the spirit or the scope of my invention. For example, the lower end of the stem 5 might be cut off square and doubled back upon itself

(after the manner shown in Fig. 7), as a substitute for the ball 6. Likewise, the ornamental openings in the wings 2 of the band member might be omitted as shown in Fig. 8 and the spring might be made integral with this band after the manner shown at 9 in the same figure. So also, the resulting shank 9 of this member might be laterally notched as shown in Fig. 8 for interengagement with the wings 8 on the stem member of the clip, although I have not found such a notching necessary for securing a firm
 55 interlocking when assembling my clips after the general manner above described.

I claim as my invention:

1. In a pencil clip, a pressure member, a resilient intermediary element fastened at one end to the pressure member, and a band member adapted to grip a pencil and having a pair of strap portions struck up therefrom and spaced longitudinally of the pencil and cooperating in clamping the other end of the intermediary member rigidly to the band member.

2. In a pencil clip, a pressure member, a U-shaped spring secured at one end thereto, and a pencil-gripping member having a pair of straps struck up from the same and presenting loops alined longitudinally of the pencil-gripping member and the pencil-gripping member, the spring having one shank extending through both straps and the said straps being curved substantially concentric with the back of the pencil-gripping member to clamp the said shank of the spring rigidly to the pencil-gripping member.

3. In the manufacture of a pencil clip having a U-shaped spring attached at one end to its pressure member, the method of securing the other end of the spring immovably to the pencil-banding member which consists in slidably inserting this latter end of the spring between suitably spaced portions of the pencil-banding member while the latter has its main parts flat and clamping these portions upon the spring by the same operation which bends the said main parts to a pencil-banding shape.

Signed at Chicago, Illinois, November 10th, 1920.

JENS P. NIELSEN.