

May 29, 1923.

1,456,786

F. DE LUCA

PEN OR PENCIL ATTACHMENT

Original Filed April 11, 1921

FIG. 1.

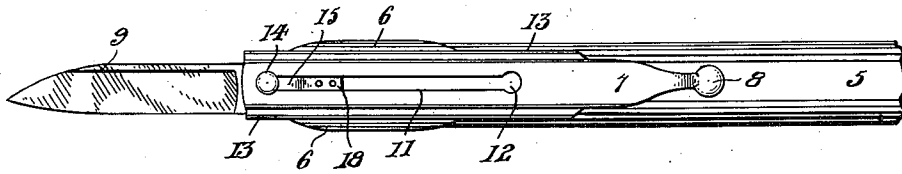


FIG. 2.

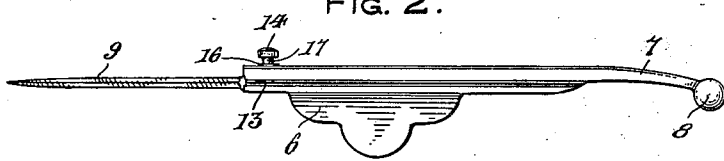


FIG. 3.

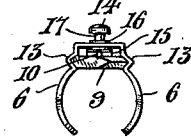


FIG. 4.

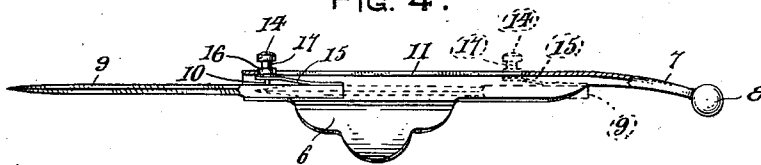


FIG. 5.

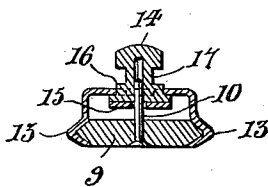


FIG. 6.

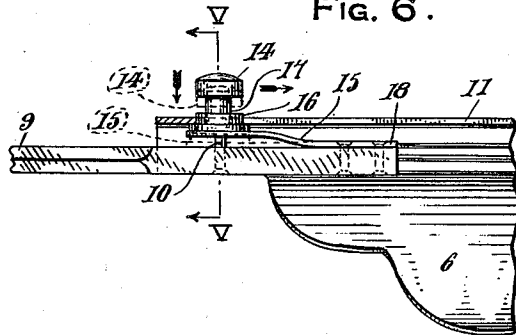
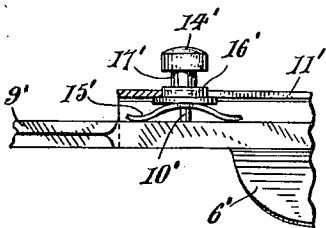


FIG. 7.



Inventor

Frank De Luca

By

J. K. Bryant

Attorney.

UNITED STATES PATENT OFFICE.

FRANK DE LUCA, OF BOWDENS, NORTH CAROLINA.

PEN OR PENCIL ATTACHMENT.

Application filed April 11, 1921, Serial No. 460,266. Renewed March 22, 1923.

To all whom it may concern:

Be it known that I, FRANK DE LUCA, a subject of the King of Italy, residing at Bowdens, in the county of Duplin and State
5 of North Carolina, have invented certain new and useful Improvements in Pen or Pencil Attachments, of which the following is a specification.

This invention relates to certain new and
10 useful improvements in pen or pencil attachments, and is particularly designed to provide an extremely simple but practical attachment for pens or pencils, in the nature
15 of a clip with a retractable blade capable of many uses such as pencil sharpening, erasing, envelope opening or the like.

One object of the invention is to attach a blade to a pen or pencil so as to enable a person to move the blade from an inoperative to an operative position or vice versa
20 at will, improved means being provided to releasably retain the blade in either its extended or retracted positions, which retaining means may be readily operated without
25 the requirement of particular skill.

Another object of the invention is to adapt the attachment for use in connection with substantially the common form of clips
30 which are now in use for retaining a pencil or pen in the pocket of a person's clothing.

Other objects will appear as the nature of the invention is better understood, and the same consists in the novel form, combination and arrangement of parts hereinafter
35 more fully described, shown in the accompanying drawing and claimed.

In the drawing, wherein like reference characters indicate corresponding parts throughout the several views,

40 Figure 1 is a plan view of an attachment embodying the present invention shown operatively disposed upon a pencil which is shown partially broken away,

45 Figure 2 is a side elevational view of the attachment shown in Fig. 1,

Figure 3 is an end elevational view of the device shown in Fig. 2 looking toward the right of the latter figure,

50 Figure 4 is a view partly in side elevation and partly in longitudinal section of the device shown in Fig. 2 and with the blade shown by dotted lines in retracted position,

Figure 5 is an enlarged sectional view taken upon line V—V of Fig. 6,

55 Figure 6 is an enlarged view of a portion

of the device shown in Fig. 4 to more clearly illustrate details of construction, and

Figure 7 is a view similar to Fig. 6 of a modified form of the invention.

Referring more in detail to the several
60 views, the present invention is designed as an attachment to a pen, pencil or the like, a pencil 5 being shown herein for the sake of illustration. A resilient sheet metal clip or
65 clasp 6 is provided on the shank of the pencil 5 and may be provided with the usual tongue 7 with a ball or other engaging member 8 upon its free end adapted to engage the
70 clothing in the usual manner for retaining the pencil 5 in a pocket of said clothing. However, it is to be understood that the invention is not restricted for use in connection
75 with clips having means for retaining a pencil in a person's pocket although the use of the clip in connection with the tongue 7 for supporting a blade 9 upon a pencil and
80 for retaining the same in a person's pocket is preferable.

The blade 9 has a transverse pin 10 rigidly fastened thereto and this pin projects outwardly through a longitudinal slot 11 of the
85 clip 6, which slot is enlarged at its ends as at 12.

The central portion of the clip 6 is outwardly offset at opposite sides as at 13 to
85 form opposed channel-shaped guideways for reception of the longitudinal edge portions of the blade 9 whereby the blade is slidably guided for longitudinal movement relative
90 to and within the clip 6. In the preferred embodiment of the invention a hollow push button 14 is slidably disposed on the projecting end of the pin 10 and normally rests
95 upon the free end of a spring 15 whereby the enlarged portion 16 of the push button is normally forced outwardly into an enlargement 12 of the slot 11 for preventing accidental
100 movement of the blade either from its extended position or from its retracted position. The push button 14 is provided with a reduced portion 17 outwardly of the portion 16 which is of a diameter slightly less than the width of the main portion of the
105 slide 11 so that when the push button is pressed inwardly as shown by dotted lines in Fig. 6, the blade may be retracted or if the blade has already been retracted, such release
110 of the push button may be had for permitting the blade to be extended. The spring 15 is preferably in the nature of a piece of

springy sheet metal having one end rigidly fastened as at 18 to the inner end of the blade 9, but as shown in Fig. 7 the spring may be of bow form as at 15' with its ends resting upon the blade 9' and with the pin 10' extending through the central portion of the spring which is normally outwardly bowed for moving the enlarged portion 16' of the push button 14' into the enlarged portion of the slot 11', the push button 14' being also provided with a reduced part as at 17' outwardly of the portion 16'. The portion of the clip 6 between the guide channels 13 together with said guide channels form corrugations in the piece of sheet metal from which the clip is formed which tend to greatly strengthen the device and insure a durable article as will be readily seen.

From the foregoing description, it is believed that the construction and operation as well as the advantages of the present invention will be readily understood and appreciated by those skilled in the art.

What is claimed as new is:—

25 A device of the class described comprising a member having a central longitudinal elongated slot, a blade slidably guided for

longitudinal movement in said member, a releasable catch carried by and movable with the blade within said slot and engageable within the enlarged portion of said slot to retain the blade retracted within said member and to retain said blade extended beyond one end of said member, said releasable catch comprising a spring pressed member normally urged away from the blade toward locking position, said spring pressed member comprising a push button having a reduced portion of slightly less diameter than the width of the major portion of said slot and an inner enlarged portion of greater diameter than the width of the major portion of said slot, the slot in said member being provided with enlarged openings communicating with the ends of said slot and of a diameter slightly greater than the diameter of the enlarged portion of the push button, and a lateral pin rigidly fixed to said blade and projecting outwardly through said slot, said push button being slidably mounted upon said pin.

In testimony whereof I affix my signature.

FRANK DE LUCA.