

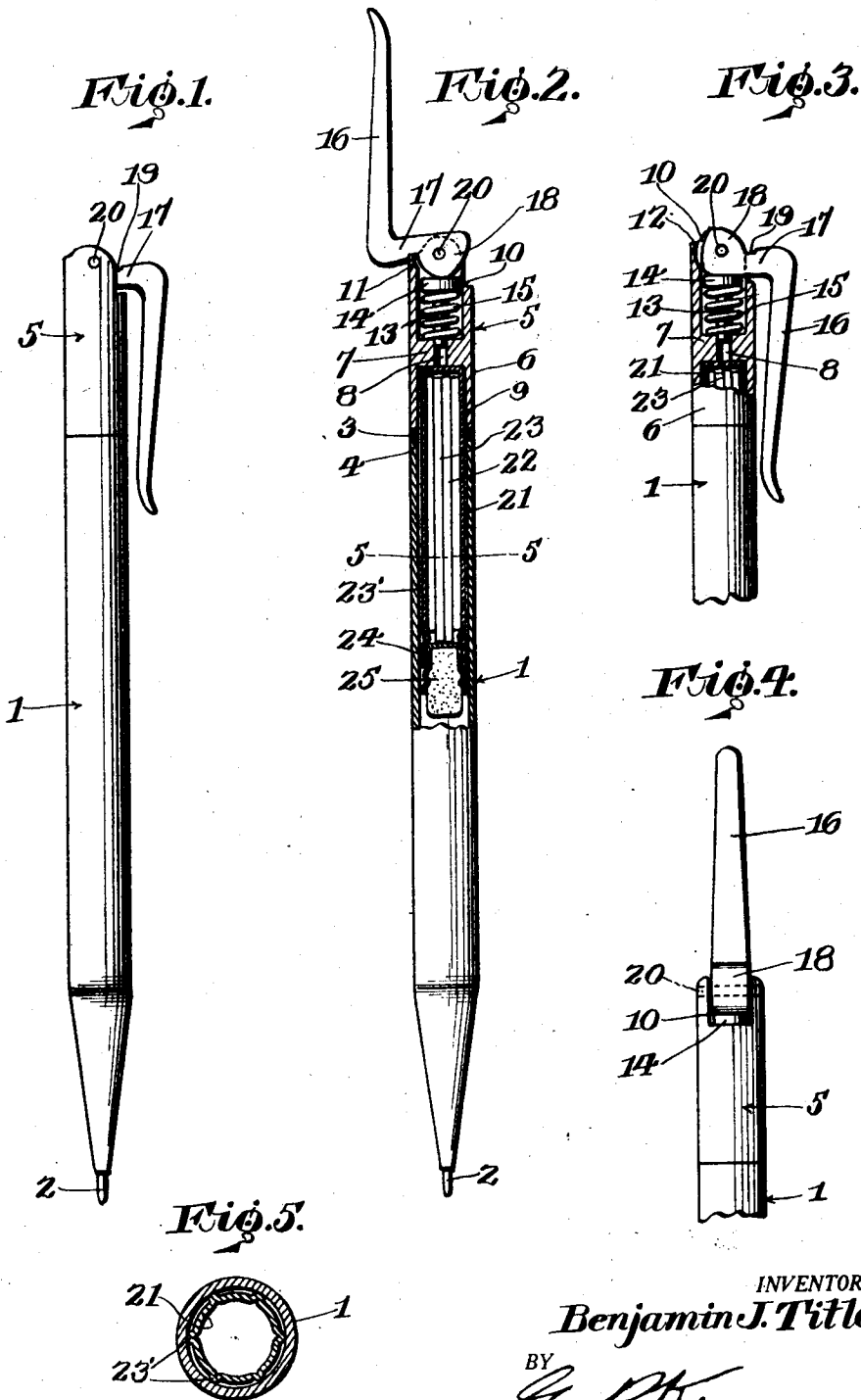
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B. J. TITLE

PENCIL ATTACHMENT

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# UNITED STATES PATENT OFFICE.

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## PENCIL ATTACHMENT.

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This invention relates to a pencil attachment and has for its object to provide, in a manner as hereinafter set forth, an attachment of the class referred to including means designed primarily to constitute a clip fastener for the pencil, as well as an envelope opener, but it is to be understood that such means may be employed for any other purposes for which it is found applicable.

A further object of the invention is to provide, in a manner as hereinafter set forth, an attachment of the class referred to including a pivoted, spring controlled element designed primarily as a clip fastener and envelope opener, but of such form as to enable it to be employed for any other purposes for which it is found applicable.

A further object of the invention is to provide, in a manner as hereinafter set forth, an attachment of the class referred to including a pivoted, spring controlled element normally providing a clip fastener for the pencil capable of being used, when shifted from normal position as an envelope opener or for any other purposes for which the element may be found applicable.

Further objects of the invention are to provide, in a manner as hereinafter set forth, an attachment for pencils which is simple in its construction and arrangement, strong, durable, compact, readily installed with respect to a pencil, thoroughly efficient in its use, conveniently manipulated, and comparatively inexpensive to manufacture.

With the foregoing and other objects in view the invention consists of the novel construction, combination and arrangement of parts as hereinafter more specifically described, and illustrated in the accompanying drawings, wherein is shown an embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which fall within the scope of the claims hereunto appended.

In the drawings wherein like reference characters denote corresponding parts throughout the several views:—

Figure 1 is an elevation of the pencil attachment as applied to one end of a pencil and with the attachment positioned as a clip fastener.

Figure 2 is a sectional elevation of the attachment and pencil and illustrating the attachment in a position to be employed as an envelope opener or for any other purpose for which it can be used.

Figure 3 is a fragmentary view in section of the attachment as applied to the pencil.

Figure 4 is an elevation of the attachment in envelope opening position.

Figure 5 is a section on line 5—5 Figure 2. Referring to the drawings in detail 1 generally indicates a pencil of that type including a tubular body portion having a tapered end through which the lead 2 is fed. The pencil is shown by way of example for the purpose of illustrating the attachment, in accordance with this invention, as applied to the inner end of the body portion of the pencil. The inner end of the body portion is reduced, as at 3 to increase its inner diameter of the pencil at the inner end thereof thereby providing an annular shoulder on the inner face of the body portion of the pencil.

The attachment indicated generally at 5 extends into the inner end of the body portion of the pencil, abuts against the shoulder 4 and frictionally engages with that part of the inner face of said body portion of greater diameter. The attachment 5 when connected to the end of the body portion of the pencil abuts against the inner end edge of said body portion.

The attachment 5 includes a tubular body portion or sleeve 6 provided intermediate its ends with a diametrically disposed partition 7 formed with a central opening 8. The sleeve 6 has an end 9 of reduced outer diameter which engages and seats on the reduced portion 3 of the inner end of the body portion of the pencil. The reduced part 9 of the sleeve 6 is at the inner end thereof. The sleeve 6 is formed with a lengthwise disposed slot 10 which opens at the outer edge of the sleeve and that part of the inner face of the sleeve 6 opposite the slot 10 is cut away as at 11 to provide a clearance. The outer end of the sleeve 6 is cut away as at 12 to form a seat which opposes the slot 10.

Operating in the opening 8 is the stem 13 of a plunger disc 14 and surrounding the stem 13 and interposed between the disc 14 and the partition 7 is a coiled controlling spring 15 for the disc 14. The spring is positioned between the partition 7 and the outer end of the sleeve 6.

Pivotaly connected to and arranged within the outer end of the sleeve 6, as well as bearing against the disc 14, is a shiftable angle-shaped element which can be used as a clip fastener, an envelope opener or for any other purposes for which it is found ap-

plicable. The said element includes an arm 16 disposed lengthwise with respect to the length of and exteriorly of the pencil 1. One end of the arm 16 is formed integral with an inwardly extending, right angularly disposed arm 17 having a cam 18 extended laterally from one side thereof and with such side further provided with a notch 19. The cam 18 pivots on a pin 20 which is fixed to and extends diametrically with respect to the outer end of the sleeve 6. The pin 20 is eccentrically disposed with respect to the opening 8 and also is disposed at one side of the longitudinal median of the arm 17. The free end of the arm 10 is outwardly curved to facilitate the positioning thereof when employed as a clip fastener. The arm 16 is normally arranged in parallel spaced relation with respect to the pencil.

The disc 14 snugly abuts against the non-notched side of this arm 17 and acts to maintain the arm 16 in the position shown in Figure 3 when said arm 16 is functioning as a clip fastener. When the arm 16 is swung from the position shown in Figure 3 to that shown in Figure 2 the disc 14 is engaged by the cam 18. When the arm 16 is swung to the position as shown in Figure 2 the notch 19 receives the seat 12 and the walls of said notch 19 in connection with the spring controlled disc 14 maintain the arm 16 in the position as shown in Figure 2. The opening 8 provides a clearance for the shifting movement of the stem 13 and the pivoted element is swung to extended or from extended to non-extended position as shown in Figures 2 and 3 respectively.

Secured within the sleeve 6 and projecting from the inner end thereof is a combined casing and coupling element 21 for the sleeve 6 and said element 21 frictionally engages with the inner face of the body portion of the pencil 1. The element 21 is formed with spaced ribs 23' extending lengthwise thereof which frictionally engage with the inner face of the body portion of the pencil 1 whereby a frictional clutch is set up between element 21 of the pencil so the sleeve 6 will be rigidly maintained in position on the end of the pencil body.

The element 21 provides a storage chamber 22 for pencil leads 23 and the inner end of said element 21 is closed by a removable cap 24, which carries an erasing member 25.

The structure referred to with respect to the attachment provides a spring controlled, eccentrically pivoted, cammed angle-shaped element, and a supporting means therefor for coupling said element to an end of the pencil body, and with the element arranged with respect to said body to permit of its being conveniently shifted from and to non-extended position, and when in non-extended position functioning as a clip fastener for the pencil and when in extended position

providing means for opening an envelope or for any other purposes for which the element when in extended position may be employed, and therefore it is thought the many advantages of a pencil attachment in accordance with this invention, can be readily understood although the preferred embodiment of the invention is as illustrated and described, yet it is to be understood that changes in the details of construction can be had which will fall within the scope of the invention as claimed.

What I claim is:

1. An attachment for the purpose set forth comprising a spring controlled, eccentrically pivoted, L-shaped element, said element having a cam at one end, the pivot for said element being arranged at the cammed end of the latter, and tubular supporting means for the pivot for said element, said means and pivot providing for coupling said element to one end of a pencil body.

2. An attachment for the purpose referred to comprising a spring controlled eccentrically pivoted, L-shaped element, one of the legs of said element being provided with a cam, a tubular support for said element and means extended from the support for securing the latter against one end of a pencil body.

3. An attachment for the purpose set forth comprising tubular means adapted to be connected with one end of a pencil body, a spring controlled plunger disc positioned within the outer end of said means, and an angle-shaped element pivotally connected to the outer end of said means and having a cam bearing against said disc.

4. In an attachment for the purpose set forth a tubular slotted means for connection to one end of a pencil body, an angle shaped element including a pair of arms, one of greater length than the other, the shorter of said arms extending through the slot of said means and the other of said arms positioned exteriorly of said means, means for eccentrically pivoting said shorter arm within one end of said tubular means, and resilient controlling means for said element, said controlling means positioned within said tubular means and permanently bearing against said short arm.

5. In an attachment for the purpose set forth a tubular slotted means for connection to one end of a pencil body, an angle-shaped element including a pair of arms, one of greater length than the other, the shorter of said arms extending through the slot of said means and the other of said arms positioned exteriorly of said means, means for eccentrically pivoting said shorter arm within one end of said tubular means, resilient controlling means for said element, said controlling means positioned within said tubular means and permanently bearing against said

short arm, and said short arm having a cam extended laterally from one side thereof.

5 6. An attachment for the purpose set forth comprising a spring controlled, eccentrically pivoted, L-shaped element having one of its legs provided with a cam, said element constituting a clip fastener capable of being shifted from and to fastening position, and supporting means for the pivot of said element.

10 7. An attachment for the purpose set forth comprising a cammed angle-shape element constituting a clip fastener capable of being shifted from and to fastening position, resilient controlling means for and permanently abutting the cammed surface of said element, a pivot for and eccentrically disposed with respect to said element, and supporting means for said pivot and controlling means.

20 8. An attachment for the purpose set forth comprising a cammed angle-shape element constituting a clip fastener capable of being shifted from and to fastening position, resilient controlling means for and perma-

nently abutting said element, a pivot for and eccentrically disposed with respect to said element, and supporting means for said pivot and controlling means, said element being angle-shaped and extending into one end of said supporting means, and said supporting means provided with clearances for said element when shifted from and to fastening position.

30 9. An attachment for the purpose set forth a tubular means for connection to one end of a pencil body, an angle shaped element capable of being retracted and extended with respect to said means, means for eccentrically pivoting said element to one end of said tubular means, resilient means arranged in said tubular means for retaining said element in a retracted position, and said tubular means and element having coating means coating with said resilient means for retaining said element in extended position.

45 In testimony whereof, I affix my signature hereto.

BENJAMIN J. TITLE