

(No Model.)

T. E. OGRAM & H. L. E. JOHNSON.
PIN ATTACHMENT FOR PENCIL TIPS.

No. 523,232.

Patented July 17, 1894.

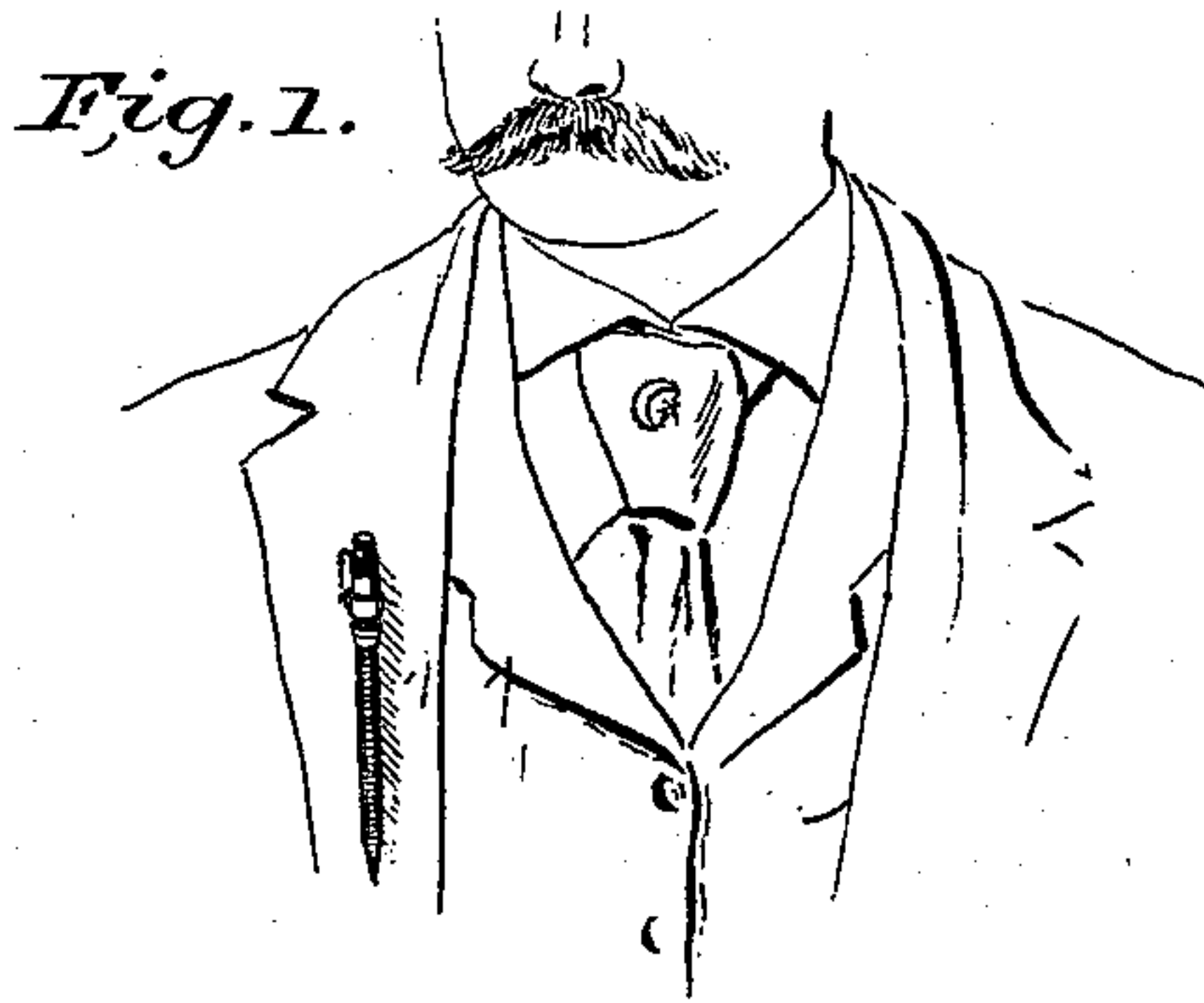


Fig. 2.

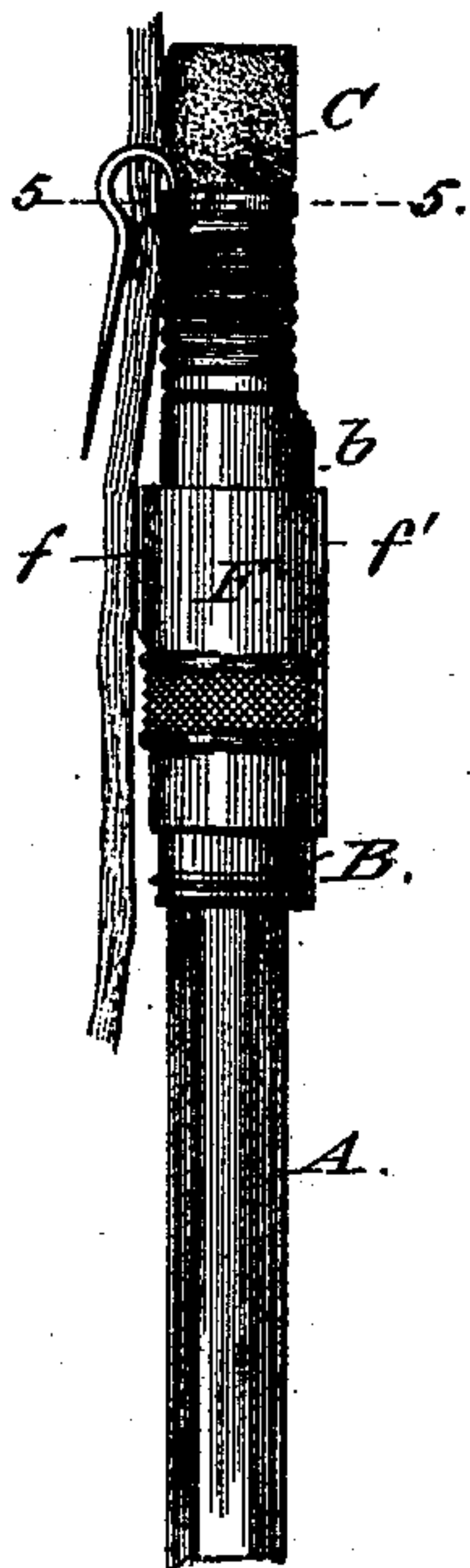


Fig. 4.

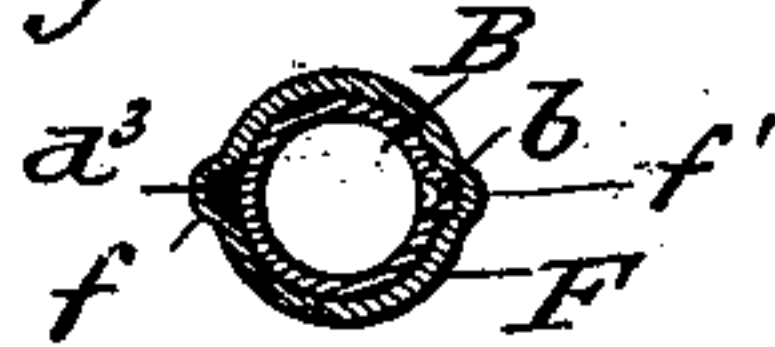


Fig. 5.



Fig. 6.

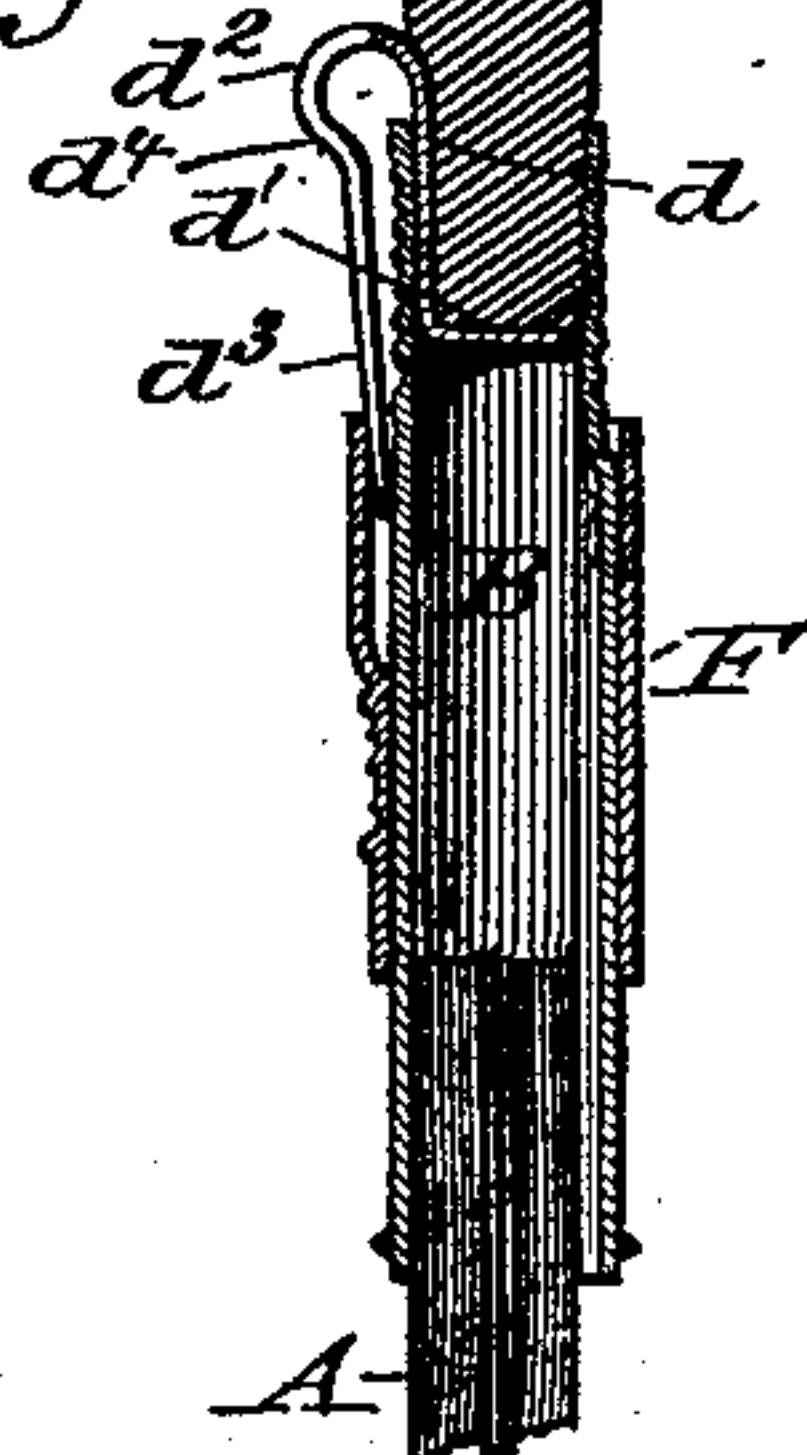
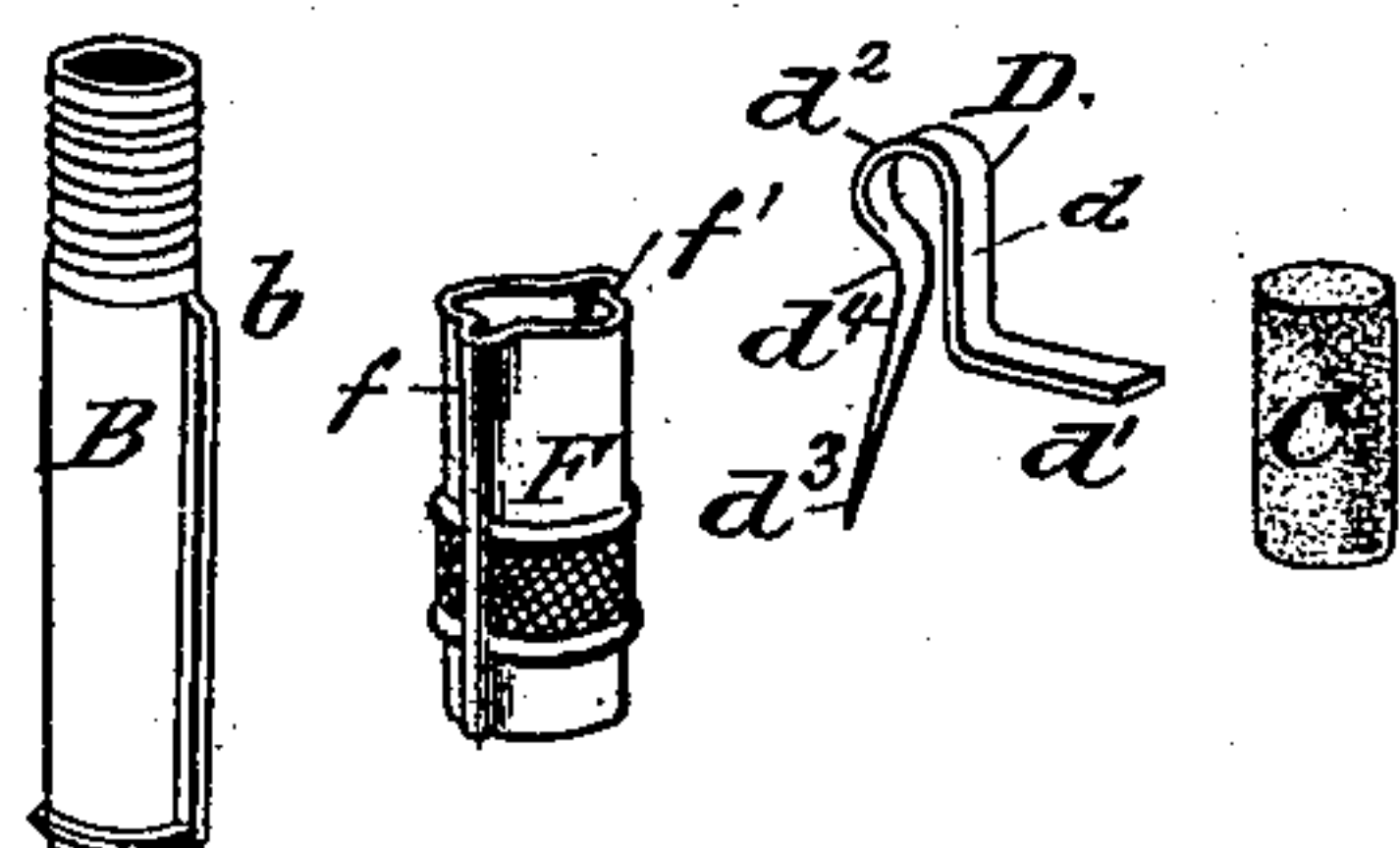


Fig. 7.



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PIN ATTACHMENT FOR PENCIL-TIPS.

SPECIFICATION forming part of Letters Patent No. 523,232, dated July 17, 1894.

Application filed November 21, 1893. Serial No. 491,547. (No model.)

To all whom it may concern:

Be it known that we, THOMAS E. OGRAM and HENRY L. E. JOHNSON, residing in the city of Washington, District of Columbia, have invented a new and useful Pin Attachment for Pencil-Tips, of which the following is a specification.

Our invention relates more particularly to pin attachments for metallic pencil tips; the same is, however, also adapted for use in connection with tubular pencil or pen holders; and such invention has primarily for its object, to provide a simple and very cheap pin attachment for metallic pencil tips, which can be quickly attached thereto, or detached therefrom, and which will serve as a convenient means whereby the pencil can be quickly attached to the coat or vest of the user, and which will not readily become accidentally loosened therefrom.

Our invention also has for its object to provide a securing pin or hook which when attached to such tips or holders, will not affect the selling price thereof.

Furthermore, it has for its object to provide a new and improved pin attachment for pencil tips or tubular holders which can be independently sold on the market, and which can be used in connection with any of the common pencil tips or tubular holders now in use.

With other minor objects in view and which hereinafter will be referred to, our invention consists in a pin attachment constructed in the novel and peculiar manner first described in detail and then specifically pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 is a view illustrating the use of our improved pin attachment. Fig. 2 is a side view of a pencil tip with our improvements applied, and showing the pin passed through the fabric. Fig. 3 is a similar view showing the pin drawn inward with its point held within a shield or protecting sleeve. Fig. 4 is a horizontal section taken on the line 4—4 Fig. 3. Fig. 5 is a similar view taken on the line 5—5 Fig. 2. Fig. 6 is a vertical section, taken on the line 6—6, Fig. 5, and Fig. 7 is a perspective view of a pencil tip

constructed with our improved pin attachments.

Referring to the accompanying drawings, A indicates a portion of a pencil, on which is fitted a metallic tube B of the usual construction, in the end of which is fitted the rubber tip C.

The securing pin D, the construction of which forms the essential feature of this invention, and which is most clearly shown in Figs. 6 and 7, consists of a flat vertical portion d ending at its lower end in a right angle foot portion d' and terminating at the top in an outwardly bowed loop d^2 , which is reduced in width and is bent inward and downward to form a spring pin member proper d^3 , which normally projects somewhat diagonally outward from its inwardly bent portion d^4 , such portion being bent closely to the part d whereby to form a clamp for a purpose presently explained.

By referring now to Fig. 5, it will be noticed that the shank portion d is somewhat flattened and slightly curved to form a large bearing face to bear against the inner wall of the tube B, whereby to effectually hold the pin from lateral movement when in place.

In practice the pin D is inserted with its shank d into the top end of the tube B, after which the rubber tip C is inserted, which engages the foot portion d' and draws the said shank down into the tube with it, the expansion of such tip serving to press the flattened shank d secure against the side of tube B, as shown. After the pin is thus secured to the pencil tip, its pin member proper will project outward as shown in Fig. 2, and it will be readily seen that, as the pencil is held in the fingers, the pin can be quickly hooked into the coat or vest, the curved portion d^4 serving to act as a spring presser against the inner face of the fabric and also as a restraining shoulder to hold the pin from coming out or being accidentally disconnected.

To protect the point of the pin and also to hold such pin point in out of the way, when desired, a sleeve F is provided which is held to slide on the tip member B, it being provided at one side with a bent out socket por-

tion *f* which, when the pin is pressed inward by the finger, will receive the pin point as the sleeve is slid up and thereby hold it in the position in Figs. 3 and 6, and to hold the sleeve from lateral movement, it has at one side a second socket like portion *f'*, which as well as socket *f* can be stamped or pressed out from the body, which portion *f'* receives a wing or projection *b* pressed out from the tube B, as clearly shown in Fig. 4.

It is manifest that the protecting sleeve may be omitted, and the pin proper attached to the common pencil tip tube, such sleeve being, however, preferably employed when a new tip is constructed especially for use in connection with the detachable pin.

From the foregoing, taken in connection with the drawings, it is thought the advantages of our improvements will be readily understood.

It will be noticed the attachment proper, "the pin," can be constructed in very large quantities at a very trifling cost, and when added to the ordinary tips will greatly enhance the value thereof.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

1. As an improved article a pin for pencil tips consisting of a shank portion adapted to enter the tip and having a bend at its lower end, and a hook-shaped pointed pin portion adapted to enter the garment substantially as shown and described.

2. As an improved article a pin D, comprising the flat portion *d*, the foot *d'*, the bends *d²*, and *d⁴*, and the pin portion *d³*, all arranged substantially as shown and described.

3. The combination with the tubular holder and detachable plug or tip, of the pin member, having a shank fitting between the plug and tube, a foot portion fitting under the tip,

and a hook shaped pointed pin portion adapted to enter the garment substantially as shown and described.

4. The combination with the tube B, of the tip C, and the pin D, having a flat shank *d*, a foot portion *d'*, the bend *d²*, the pointed end *d³* and intermediate springbend *d⁴*, all arranged substantially as shown and described.

5. The combination with the tube B, and sliding tube F, arranged upon said tube, of the pin, D, detachably held in said tube, said pin comprising a shank portion adapted to be inserted in the tube, and a hook-shaped pin portion adapted to enter the garment, substantially as shown and described.

6. As an improvement in pin attachments for pencil holders, the combination with the tube B, and the pin D detachably held thereon, said pin having a shank *d*, a bend *d²*, and pin *d³* of the sleeve F held to slide on the tube, provided with a pocket like portion at one side and a guide on the tube B, to hold said sleeve from turning on the tube, substantially as and for the purposes described.

7. An improved holder for pencils and the like, consisting of a tubular holder, a detachable plug or tip fitted in the upper end, a spring pin projected to one side of the top of the holder, formed with a shank member adapted to be clamped between the holder and the tip and having a foot portion projected under the tip, and a hook shaped pointed pin portion adapted to be inserted in the garment and a guard or sleeve held to slide on the holder, all arranged substantially as shown and for the purposes described.

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