March 22, 1932. S. SEGAL 1,850,086

WRITING IMPLEMENT

Filed May 2, 1931

Fig. 1.

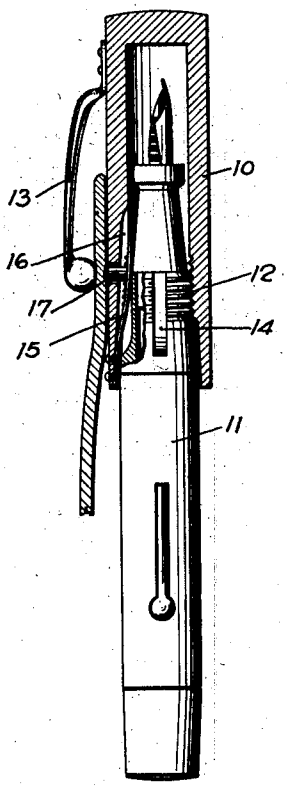
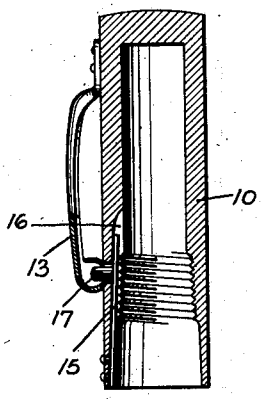


Fig. 2.



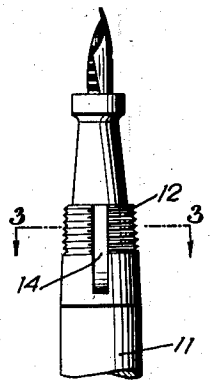
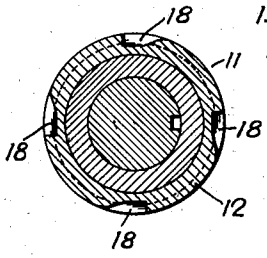


Fig. 5.

Fig. 4.



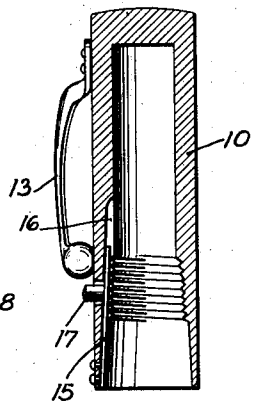
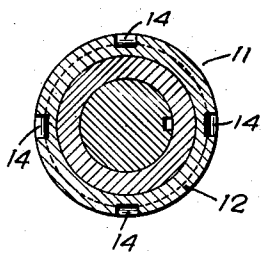


Fig. 3.



INVENTOR.
SAMUEL SEGAL,
BY Dell, Dunn & Anderson.
ATTORNEYS.

Patented Mar. 22, 1932 1,850,086

UNITED STATES PATENT OFFICE

SAMUEL SEGAL, OF NEW YORK, N. Y.

WRITING IMPLEMENT

Application filed May 2, 1931. Serial No. 534,511.

This invention relates to a functionally and structurally improved writing implement.

It is an object of the invention to provide a device of this character and specifically a pen or pencil of the pocket type and by means of which any danger of the cap accidentally loosening will be avoided. Consequently, and especially in the case of pens, the difficulties which have heretofore been encountered due to clothing becoming soiled with ink will be avoided.

The invention is not necessarily limited to use in connection with writing implements, although it is primarily devised for this purpose. It might be employed advantageously, for example, in connection with any article (and especially a pocket implement) which comprises a plurality of parts and in which accidental detachment of the parts is to be avoided.

Another object is that of furnishing an article of this character, the parts of which will be relatively few in number and individually simple and rugged in construction, these parts being capable of manufacture largely by automatic machinery and assembled by unskilled labor to furnish a relatively inexpensive implement which will operate over long periods of time with freedom from difficulties.

With these and other objects in mind, reference is had to the attached sheet of drawings illustrating one practical embodiment of the invention and in which:

Fig. 1 is a partly sectional side elevation of a pen;

Fig. 2 illustrates the cap and barrel in detached condition;

Fig. 3 is an enlarged sectional plan view taken along the lines 3—3 and in the direction of the arrows indicated in Fig. 2;

Fig. 4 is a similar sectional view but showing a slightly different form of construction, and

Fig. 5 is a fragmentary sectional side view of a still further form of construction which may be employed.

In these several views, the invention has been shown in association with a fountain pen. As before brought out, it might, however, be advantageously utilized in connection with other implements.

Thus, in referring to the drawings, the numeral 10 indicates a cap of ordinary construction which is to be associated with a barrel 11 preferably by means of interconnecting screw threads 12. In the usual manner, a clip 13 is attached to the cap in order that in cooperation with the exterior of a garment, it may serve to prevent an accidental dropping of the implement from the pocket of the user.

It is intended by means of the present invention to also prevent an accidental detachment of the barrel from the cap, and, with this in mind, the screw threads are interrupted by a groove or grooves 14 which are of a width such that they may receive a locking bolt or spring member 15. This member as illustrated may be in the nature of a flat spring one end of which is rigidly secured to the cap and the body of which may lie within one of the grooves 14. Normally, however, and as shown in Fig. 2, the strip will then lie snugly against the inner face of the cap and within the recess 16 provided for this purpose.

When extending into the groove it is obvious that a turning of the cap with respect to the barrel may not occur. Accordingly, a detachment of the parts may not be effected. However, with the spring member 15 in the position shown in Fig. 2, this turning may be accomplished as a consequence of which the parts may be detached.

The projection of the spring member and the retraction thereof is preferably effected automatically. With a view to achieving this result, it is preferred that the end of the clip 13 be recessed or hollow and that the cap have an opening through which a pin 17 applied to the member 15 may project. This pin extends into the recess or opening of the clip-ball or bearing member and consequently if a layer of material is interposed between the outer ends of the clip and pin the spring member 15 will be projected as in Fig. 1 to lie within the groove 14. However, if this layer is removed, the parts spring to the position shown in Fig. 2 per-

mitting of the detachment of the cap from the barrel.

As a consequence of this construction, it will be appreciated that the parts lock against relative movements as soon as the implement is mounted within the pocket with the clip thereof bearing against the outer face of the garment. The parts are immediately released upon the implement being withdrawn and thus the desired results are achieved. In certain instances, some difficulty might occur—particularly if the parts became gummed with ink due to the spring member 15 not retracting. This might also occur if this member became broken or lost its resiliency. With a view to avoiding difficulties in this connection, the structure shown in Fig. 4 may be resorted to. In this view, it will be noted that grooves 18 have been illustrated, the inner walls of which are inclined. While in no way affecting the locking of the parts against accidental detachment, the shape of these grooves permits—in the event of the spring member jamming—of the operator simply tightening the cap to a small extent. Thereupon, the spring member 15 will ride against the inclined wall of one of the grooves and be forced outwardly. Consequently, the operator after slightly tightening the parts, may completely dismount the cap from the barrel.

In certain instances, it may be desired to not have the spring member and clip in such positions upon the cap that direct contact exists between the clip and the pin. This structure has been shown in Fig. 5 in which the parts have been identified by the same reference numerals and in which the pin is disposed in sufficiently close proximity to the clip that the garment material will bear against the pin to assure of a projection of the spring member into the groove.

From the foregoing, it will be understood that, among others, the several objects of the invention as specifically afore identified are achieved. Obviously, numerous changes in construction and rearrangements of the parts might be resorted to without departing from the spirit of the invention as defined by the claims.

Having described my invention, what I claim as new and desire to secure by Letters Patent is:

1. An implement including a cap, a barrel, both said cap and barrel being formed with screw threads whereby the same may be coupled, said barrel being formed with a longitudinal groove, a spring member projectable from said cap into said groove to prevent relative movements of said cap and barrel, and a pin secured to said member extending beyond said cap and means extending adjacent said pin to shift the same and said member inwardly upon an element being interposed between said means and pin.

2. An implement including a cap, a barrel, both said cap and barrel being formed with screw threads whereby the same may be coupled, said barrel being formed with a longitudinal groove, a spring member extending from said cap and projectable into said groove to prevent relative movements of said cap and barrel, a pin secured to said member and extending beyond said cap, and a clip member associated with said cap and extending to a position adjacent that at which the pin projects from the same whereby an element interposed between said pin and clip member will effect projection of said pin and spring member.

3. An implement including a cap, a barrel, both said cap and barrel being formed with screw threads whereby the same may be coupled, said barrel being formed with a groove, a spring member extending from said cap and projectable into said groove to prevent relative movements of said cap and barrel, a pin secured to said member and extending beyond said barrel, and a clip member associated with said cap and extending to a position adjacent that at which the pin projects from said barrel, said clip member being formed with a recess to accommodate the end of said pin.

4. An implement including a cap, a barrel, both said cap and barrel being formed with screw threads whereby the same may be coupled, said barrel being formed with a longitudinal groove, a spring member extending from said cap and projectable into said groove to prevent relative movements of said cap and barrel, a pin secured to said member and extending beyond said cap, and a clip member extending to a point beyond that at which said pin projects from said cap whereby an element interposed between said pin and clip member will effect projection of said pin and spring member.

5. An implement including a cap, a barrel, both said cap and barrel being formed with screw threads whereby the same may be coupled, said barrel being formed with a longitudinal groove, a spring member extending from said cap and projectable into said groove to prevent relative movements of said cap and barrel, said groove being formed with an inclined side wall whereby projection of said member may be effected upon turning said cap with respect to said barrel.

6. An implement including a barrel and cap therefor, said barrel member being formed with a recess, a locking element carried by said cap member and projectable into said recess to prevent relative turning and consequent uncoupling of said members and a clip carried by said cap member and cooperable with said locking element upon a support being interposed between said clip and cap member to project said locking element into said recess.

7. An implement including a barrel and cap therefor, both formed with mutually cooperative screw threads, the screw threads of said barrel being interrupted by a recess, a locking element carried by said cap and projectable into said recess to prevent relative turning of said cap and barrel members, and consequent uncoupling thereof, and a clip member carried by said barrel and extending to a point adjacent said locking element whereby a support interposed between said clip and element will project the latter into said recess.

8. An implement including a barrel and cap therefor, both formed with mutually cooperative screw threads, recesses in both said cap and barrel members and interrupting the screw threads thereof, a locking element positioned within the recess of said cap member and projectable into the recess of said barrel member to prevent relative turning and consequent uncoupling of said members and a clip carried by said cap member and extending adjacent said element whereby a support interposed between said element and clip will project said element into said barrel recess.

9. An implement including a barrel, a cap therefor, a locking element carried by said cap, said barrel being formed with a recess into which said element is projectable to prevent relative movements of said members, a pin extending from said element and beyond said cap and whereby said element may be projected, and a clip member overlying said pin and formed with a recess accommodating the same, with said locking element in retracted condition, whereby upon a support being interposed between said clip and pin the latter will be projected to correspondingly project said locking element into locking relationship with said barrel member.

10. An implement including a barrel and cap, said barrel being formed with a recess, a locking element extending wholly upon the inner face of said cap and projectable into said recess to prevent relative movements of said cap and barrel, and actuating means connected to said element and extending through and beyond said cap whereby said locking element may be actuated.

In testimony whereof I affix my signature.

SAMUEL SEGAL.