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# PATENT SPECIFICATION

**420,164**

Application Date: May 27, 1933. No. 15,333/33.

Complete Left: May 28, 1934.

Complete Accepted: Nov. 27, 1934.

## PROVISIONAL SPECIFICATION.



### Improvements in or relating to Retaining Means for Fountain Pens, Propelling Pencils, and the like in Garment Pockets.

I, ANDREW STUART HORN (British Nationality), of 60, Osmaston Road, Prenton, Birkenhead, in the County of Chester, do hereby declare the nature of this invention to be as follows:—

This invention relates to retaining means for fountain pens, propelling pencils, and the like in garment pockets.

According to modern methods of production and assembly it is customary to provide on the usual nib-protecting cap or cover of a fountain or reservoir pen a spring metal pocket clip or retaining device having an arm or strip portion terminated at its lower end by a pressed-in or other suitably formed enlargement adapted to force the pocket material of a garment into frictional engagement with the outer wall of the cap, and the other end of which arm or strip terminates in a ring or band adapted to be frictionally held between a pair of annular shoulders created by the upper end or seating of the tubular cap and the flanged part of a closure piece or member screwed into this end of the cap. Such retaining clips or devices are, however, capable only of application to nib-protecting caps of particular sizes, and the anchoring ring or band of a clip, when fitted, usually protrudes to some extent and is visible beyond the surface of the protective cap: moreover, in almost all cases the ring or band is capable of some slight lateral or/and angular movement, so permitting of appreciable displacement of the spring arm or strip and impairment of the efficiency of the spring clip or retainer device.

The object of my invention is to provide a new or improved form of spring clip or retaining element which is capable of being applied to nib-protecting caps of varying sizes within relatively wide limits and in such fashion as to obviate the disadvantages before referred to. The clips may also be produced and assembled upon nib-protecting caps as cheaply as those constructed according to the known methods of manufacture.

Broadly my invention resides in providing a spring metal clip or retaining element having an arm or strip portion pre-

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ferably terminated at its lower end by a thickened or other suitably formed enlargement and furnished at its upper end with one or more lateral wing portions or projections—preferably of substantial depth and relatively narrow width or thickness—depending from the outer end of a horizontal portion or member of the arm, said lateral wing portion or portions of the arm being adapted to fit into an annular cavity—preferably equal in depth to the wing or wings—created between the upper inner wall portion of the tubular nib protecting cap and an annular reduced part of the screwed end closure piece or member of the cap, whilst said upper horizontal clip portion or member—which is of preferably substantial width and relatively narrow depth—is adapted to project laterally through a correspondingly formed recess or slot created in the upper end or seating of the cap and to be held within such recess by engagement of the flanged part of said screwed end piece or member with the seating of the tubular cap. By so locating the relatively long and deep lateral wing or wings or projections and the relatively wide and shallow horizontal member of the clip or retaining device in corresponding cavities or recesses of the nib-protecting cap, it will be apparent that the screwed end closure piece of the cap may be screwed right down into contact with the adjacent end or seating of the tubular portion of the cap in order to add strength to the usually weakest part of the clip and to form a continuation or prolongation of the cap, the clip anchoring means—which are of more robust and stronger construction than the customary band anchorage—are concealed from view within the cap and the usual unsightly and usually ill-fitting metal clip band omitted, and the external spring arm or strip of the clip is positively held by such internal anchoring means against angular and/or lateral displacement, the arm being capable only of outward radial displacement relative to the cap against its spring resistance as normally intended.

In carrying out my invention according to one convenient mode of embodiment,

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the clip or retaining device is stamped from a single piece of spring metal to provide a spring arm of gradually decreasing width towards its lower end which is furnished with a suitably thickened part at this end, and is formed, at its upper end, with a suitably folded or bent over part constituting the horizontal member— which is arranged to extend laterally through the correspondingly formed recess or slot formed in the upper end or seating of the tubular portion of the cap—and with a pair of lateral wing portions projecting in opposite directions from said folded member in a horizontal plane, and which wing portions are arranged to be located in an annular recess created between the flange or shoulder and the lower screwed part of the cap end closure and are of such proportions and so curved

as to partly encircle the annular reduced part of the closure and to closely fit against the vertical and horizontal walls of the closure recess when locked in position. Preferably the pair of lateral wings are created by a single spring metal strip forming a folded or bent over part of the upper horizontal portion of the clip and are shaped so as to more or less follow the curvature of the annular cap recess intended to receive it: by this means it is definitely ensured that the clip may be applied to and snugly fit protecting caps of varying sizes within relatively wide limits.

Dated this 26th day of May, 1933.

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Agent for the Applicant.

### COMPLETE SPECIFICATION.

#### Improvements in or relating to Retaining Means for Fountain Pens, Propelling Pencils, and the like in Garment Pockets.

I, ANDREW STUART HORN (British Nationality), of 60, Osmaston Road, Prenton, Birkenhead, in the County of Chester, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to retaining means for fountain pens, pencils, and the like, in garment pockets.

According to modern methods of production and assembly it is customary to provide on the usual nib-protecting cap or cover of a fountain or reservoir pens a spring metal pocket clip or retaining device having an arm or strip portion terminated at its lower end by a pressed-in or other suitably formed enlargement adapted to force the pocket material of a garment into frictional engagement with the outer wall of the cap, and the other end of which arm or strip terminates in a ring or band adapted to be frictionally held between a pair of annular shoulders created by the upper end or seating of the tubular cap and the flanged part of a closure piece or member screwed into this end of the cap. Such retaining clips or devices are, however, capable only of application to nib-protecting caps of particular sizes, and the anchoring ring or band of a clip, when fitted, usually protrudes to some extent and is visible beyond the surface of the protective cap; moreover, in almost all cases the ring or

band is susceptible to slight lateral or/and angular movement, so permitting of appreciable displacement of the spring arm or strip and impairment of the efficiency of the clip.

The object of my invention is to provide a new or improved form of spring clip or retaining element which is capable of application to nib-protecting caps of varying sizes within relatively wide limits and in such fashion as to obviate the disadvantages before referred to. The clips may also be produced and assembled upon the caps as cheaply as those constructed according to the known methods of manufacture.

My invention resides in a spring clip or retaining element having an arm or strip portion which may terminate at its lower end in a thickened or other suitably formed enlargement, and is furnished at its upper end with one or more lateral wing portions or extensions of substantial depth and relatively narrow in width or thickness extending from the outer end of a horizontal or bent-over portion of the arm, said lateral wing portion or extensions of the arm being adapted to fit into an annular cavity—preferably equal in depth or width to said wing or wings—created between the upper inner wall portion of the tubular nib-protecting cap and an end closure piece or member of the cap, whilst said upper horizontal or bent-over clip portion or member—which is of substantial width and relatively narrow depth

—is adapted to project laterally through a correspondingly formed recess or slot created in the upper end or seating of the cap, and is held within such recess by engagement of the flanged part of said end closure piece or member with said cap seating. By so locating the relatively long and deep lateral wings or projections and the relatively wide and shallow horizontal or bent-over member of the clip or retaining device in corresponding cavities or recesses of the nib-protecting cap, the end closure piece of the cap may be screwed down into contact with the adjacent end or seating of the tubular portion of the cap in order to add strength to the, usually, weakest part of the clip and to form a continuation or prolongation of the cap, and the clip anchoring means— which are of more robust construction than the customary band anchorages— are concealed from view within the cap. Thus the customary unsightly and often ill-fitting metal clip band is omitted and the external spring arm or strip of the clip is positively held by said internal anchoring means against angular and/or lateral displacement, the arm being capable only of outward radial displacement relative to the cap against its spring resistance as normally intended.

I will further describe my invention with the aid of the accompanying sheet of explanatory drawings which illustrate by way of example only, one mode of carrying the same into effect.

In said drawings:—

Fig. 1 is a perspective view of the nib-protecting cap of a reservoir pen, the closure member being detached.

Fig. 2 is a perspective view of the clip member, and Fig. 3 is a longitudinal sectional elevation of the parts assembled.

The clip or retaining device *a* is pressed out of a single piece of metal to provide a spring arm *a*<sup>1</sup> of gradually decreasing width towards its lower end which is furnished with a thickened part *a*<sup>2</sup> and is formed at its upper end with a bent-over horizontal part *a*<sup>3</sup> arranged to extend laterally through the correspondingly formed recess or slot *b*<sup>1</sup> created in the upper end or seating of the tubular portion of the cap *b* and with a pair of depending lateral wing portions *a*<sup>4</sup>, *a*<sup>5</sup> projecting in opposite directions from said folded member *a*<sup>3</sup> in a horizontal plane. Said wing portions are adapted to be located in an annular recess *c*<sup>1</sup> created between the flange or shoulder and the lower screwed part of a cap end closure *c* and are of such proportions and so curved as to partially encircle said

annular reduced part *c*<sup>1</sup> of the closure *c* and closely fit against the vertical and horizontal walls of the closure recess when locked in position. Preferably, said pair of wings *a*<sup>4</sup>, *a*<sup>5</sup> are created by a single spring metal strip forming the bent-over or horizontal portion *a*<sup>3</sup> of the clip *a* and so shaped as to more or less follow the curvature of the annular cap recess *c*<sup>1</sup> intended to receive same: by this means it is ensured that the clip will snugly fit nib-protecting caps of varying sizes within relatively wide limits.

The present invention is, in addition to pens, equally applicable to articles such as propelling pencils, and it is to be understood that the term "nib-protecting cap" is intended to include a pencil barrel, or the like.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is:—

1. A spring clip or retaining element for the purpose specified, having an arm or strip portion, preferably terminated at its lower end by a thickened or other suitably formed enlargement, and furnished at its upper end with one or more lateral wing portions or extensions of substantial depth and relatively narrow width or thickness extending from the outer end of a horizontal or bent-over portion of the arm, said lateral wing portion or extensions of the arm being adapted to fit into an annular cavity—preferably equal in depth or width to the wing or wings—created between the upper inner wall portion of the tubular nib-protecting cap and an end closure piece or member of the cap, whilst said upper horizontal or bent-over clip portion or member is adapted to project laterally through a correspondingly formed recess or slot created in the upper end or seating of the cap, and to be held in such recess by engagement of the flanged part of said end closure piece or member with the seating of the cap.

2. A spring clip or retaining element substantially as hereinbefore described and illustrated in the accompanying drawings.

3. In combination, a writing nib protecting cap and spring clip or retaining element substantially as hereinbefore described and illustrated in the accompanying drawings.

Dated this 23rd day of May, 1934.

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[This Drawing is a reproduction of the Original on a reduced scale.]

Fig. 1.

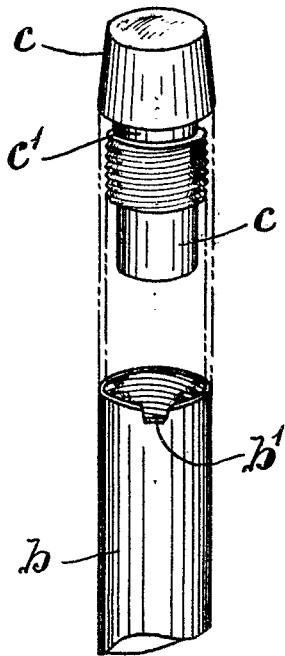


Fig. 2.

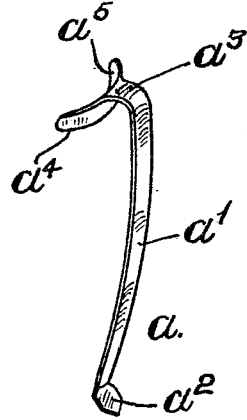


Fig. 3.

