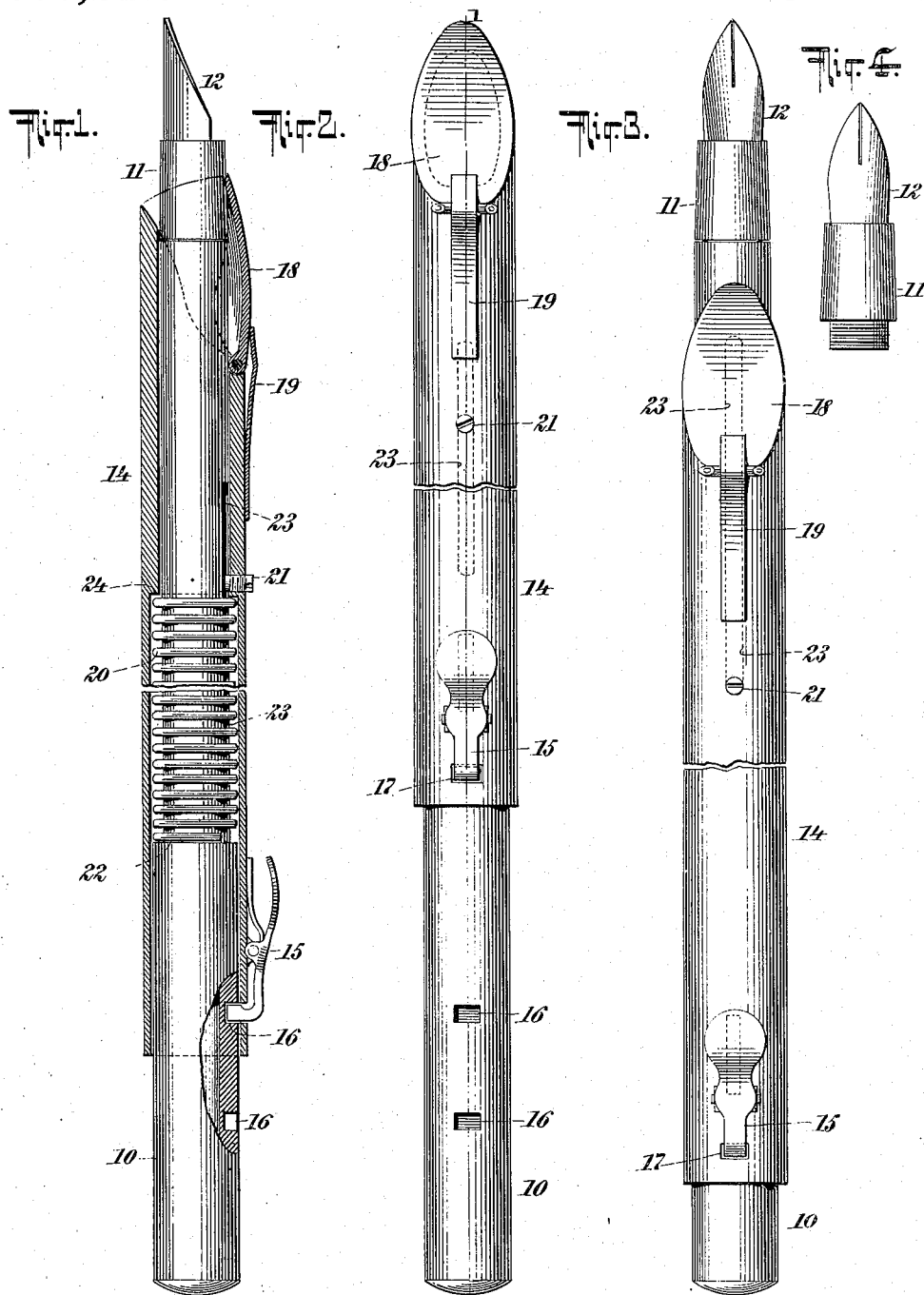


T. C. GRANT.
 FOUNTAIN PEN.
 APPLICATION FILED FEB. 27, 1909.

933,248.

Patented Sept. 7, 1909.



WITNESSES:

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FOUNTAIN-PEN.

933,248.

Specification of Letters Patent.

Patented Sept. 7, 1909.

Application filed February 27, 1909. Serial No. 480,342.

To all whom it may concern:

Be it known that I, THOMAS CHALMERS GRANT, a subject of Great Britain, and resident of New Glasgow, in the county of Pictou, Province of Nova Scotia, Canada, have invented certain new and useful Improvements in Fountain-Pens, of which the following is a specification.

The invention relates to improvements in fountain-pens, and consists in the novel features, arrangements and combinations of parts hereinafter described, and particularly pointed out in the claims.

The object of my invention is to increase the conveniences arising from the use of fountain-pens and to remedy certain objections incident to fountain-pens as at present constructed and used.

Fountain-pens as heretofore constructed have been equipped with a cap to protect the pen-point, and this cap when the pen is to be put into use, is removed from the point of the pen and applied on the outer end of the holder. After the use of the pen the cap is removed from the outer end of the holder and carefully restored to position over the point of the pen. My invention dispenses entirely with this cap and provides a slidable tubular casing encompassing a portion of the length of the pen-holder and equipped with means for locking or retaining it in such given position as may be desired on the holder, whereby only the pen point and adjacent part of the holder may be exposed when it is desired to use the pen in writing and whereby also an increased portion of the pen-holder may be exposed when it is desired to remove the socket end of the pen-holder for filling the fountain with ink. The casing is also provided with a self-closing lid at one end and also with a concealed spring for moving it to its initial or protecting position when its locking device is released to permit the spring to act.

The nature of the invention and the means for carrying the same into effect will be fully understood from the detailed description hereinafter presented, reference being had to the accompanying drawings, in which:

Figure 1 is a central vertical section, partly broken away, on the dotted line 1—1 of Fig. 2, of a pen-holder equipped with an exterior casing and cooperating parts embodying my invention, the casing being shown in the position it will occupy when it

is desired to employ the pen for writing purposes; Fig. 2 is an elevation of the same, taken from the right hand side of Fig. 1 and showing the exterior casing in the position it occupies when it is used for protecting the pen-point, said casing having moved upwardly from the position in which it is shown in Fig. 1 and its hinged end piece having closed over the pen-point; Fig. 3 is a view corresponding with Fig. 2 but showing the inclosing casing as having been moved downwardly to its extreme outer position so as to expose the socket for the pen-point preparatory to the removal of the same for enabling the fountain to be filled with ink, and Fig. 4 is a view of the pen-socket removed from the holder.

In the drawings, 10 designates a fountain-pen holder having a pen-socket 11 and pen 12, all of usual or any suitable construction with the exception of such changes in the exterior surfaces thereof as become desirable in carrying out my invention.

The exterior casing or protector for the pen is numbered 14 and is in the form of a tubular shell which is less in length than the length of the pen-holder and is slidable thereon. At its outer end or that end which is uppermost when the pen is in use, the casing 14 is provided with a spring-dog 15 of any suitable construction for engaging, when it is so desired, one or the other of the recesses 16 formed in the barrel of the holder 10. The engaging end of the dog 15 passes through a hole 17 in the casing 14 and is spring-pressed against the holder 10, and hence when either recess 16 passes into line with said end of said dog, the latter will become engaged with the holder and lock the casing 14 in fixed position thereon. The opposite end of the casing 14 is cut off on an inclined line approximating the inclination of the side edges of the pen-point and to cover this end of the casing 14 so as to conceal at the proper time the pen-point, I provide the casing with a hinged end-piece or cover 18 adapted to fit against the edges of the end of the casing and to close said end, as shown in Fig. 2. The cover 18 will preferably be used in connection with a spring 19 for automatically closing the same when the casing moves to its protecting position shown in Fig. 2 and to place a tension on said cover when the casing is away from its protecting position, as shown in Figs. 1 and 3, whereby said cover is kept pressed lightly

against the pen-holder and prevented from swinging loosely.

It is my intention that the casing 14 shall remain a permanent part of the pen-holder and also that it shall have a spring action 5 tending to move it to its protecting position, shown in Fig. 2, and to this end I provide within the casing a coiled spring 20 which at one end bears against an interior annular 10 shoulder 24 on the casing and at its other end against a shoulder 22 formed on the holder 10. I also provide the casing with a screw 21 whose inner end enters a longitudinal groove 23 formed in the holder 10, and said 15 screw and groove cooperate to prevent the holder from turning within the casing or the casing turning on the holder and also to limit the endwise movement the casing may have on the holder. When the casing 14 is 20 in its protecting position, shown in Fig. 2, the point of the screw 21 is at and becomes arrested by the end-wall of the upper end of the groove 23, and at this time the spring 20 will exert a sufficient tension against the 25 shoulders 22, 24, to maintain the relation of the casing and holder with proper firmness. When the casing 14 is in the position shown in Fig. 2 the pen-point will be well protected by the casing and its cover 18 and the 30 pen may be carried in the pocket as usual. When it is desired to use the pen, the pen-holder may be withdrawn from the pocket and have its outer end placed on a table or other support and thereupon, the user only 35 employing his one hand for the entire operation, the casing 14 may be pressed downwardly along the holder 10 and against the stress of the spring 20 to the position in which said casing is illustrated in Fig. 1, 40 upon reaching which position the casing will become locked by the engagement of the dog 15 with the inner recess 16. The pen will then be ready for use, and when it is desired to restore the pen-holder to the pocket 45 again, the user will simply release the dog 15 so as to enable the spring 20 by its expansion to slide the casing and holder into the relation in which they are shown in Fig. 2, the casing passing beyond the point of the 50 pen and the cover 18 automatically closing over said point.

During the ordinary employment of the pen, the casing 14 will be at its intermediate position, shown in Fig. 1, with the pen-point 55 exposed for writing purposes, said casing being locked in such position by the engagement of the dog 15 with the inner recess 16. During the period that the pen-holder is carried in the pocket or laid away, the casing 14 will be in its protecting position 60 shown in Fig. 2. When it is desired to remove the pen-point socket and fill the holder with ink, the exterior casing 14 will be slid downwardly on the holder 10 until the dog 65 15 reaches and engages the outer recess 16

or to the position shown in Fig. 3, the user, by pressing on the exposed end of the dog, enabling it to pass by the inner recess 16. When the casing is in its extreme position 70 shown in Fig. 3, the socket 11 becomes exposed and may be removed and the holder filled with ink, and thereupon after the socket is restored to the holder, the owner of the pen may release the dog 15 and permit the spring 20 to restore the casing 14 to 75 its protecting position shown in Fig. 2 or only to its intermediate position shown in Fig. 1, leaving the pen-holder in condition for immediate use. The lid 18 will preferably be slightly convex on its inner face, 80 and during the movement of the casing 14 in a direction from the pen-point the pen-point does not strike against said lid, nor does the lid strike against the pen-point when closing the outer end of the casing 14, 85 the edges of the socket for the pen being utilized for forcing the lid 18 to its open position and for receiving the pressure of the lid 18 during its closing movement.

The casing 14 answers as an entire substitute for the customary caps used on fountain-pen holders and constitutes a permanent part of the holder. The casing 14 is 90 merely slid on the pen-holder when moved to its several positions and it may be operated with entire ease by one hand. 95

What I claim as my invention and desire to secure by Letters Patent, is:

1. In combination, a fountain penholder, a casing slidably mounted thereon having a 100 closing cap at one end for protecting the pen-point, a spring normally acting to move said casing to its initial protecting position, and means for locking said casing when slid on the handle to expose the pen-point; substantially as set forth. 105

2. In combination, a fountain penholder, a casing slidably mounted thereon having a 110 hinged cap at one end for closing the same, a spring for automatically closing said cap, a spring normally acting to move said casing to its initial closing position, and a spring dog for locking said casing when it is moved along the holder from its initial position, 115 said holder having means to be engaged by said dog; substantially as set forth.

3. In combination, a fountain penholder, a casing slidably mounted thereon having a 120 closing cap at one end for protecting the pen-point, a spring normally acting to move said casing to its initial protecting position, and a spring dog carried by said casing to engage the holder when the casing is moved from its initial position, said holder having 125 means to be engaged by said dog when the casing is moved to a writing position for the pen and also when moved along the holder to a position permitting the removal of the pen-socket; substantially as set forth.

4. In combination, a fountain penholder, 130

a casing slidably mounted thereon having a spring-pressed closing cap at one end for protecting the pen-point, a spring normally acting to move said casing to its initial protecting position, and a spring dog carried by said casing and having its engaging end projected through the same to engage said holder when the casing is moved from its protecting position, said holder having a

recess to be engaged by the dog; substantially as set forth.

Signed at New Glasgow, in the county of Pictou, Nova Scotia, Canada, the 19th day of February, 1909.

THOMAS CHALMERS GRANT.

Witnesses:

JEAN E. DONKIN,

R. DOUGLAS GRAHAM.