

AMENDED SPECIFICATION

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PATENT SPECIFICATION

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COMPLETE SPECIFICATION

Improvements in and relating to Fountain Pens, Propelling Pencils and like Writing Instruments

I, LUCIEN CLARET, a French citizen of 20, Avenue Anatole France, Colombes (Seine), France, 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 fountain pens, stylographs, propelling pencils and like writing instruments and has for its object the provision of improved closure means for the writing end thereof.

A pen construction is known in which a closed clutch ring is fitted on the pen barrel and adapted to engage with inwardly bowed spring portions on the inside of the cap.

In another known construction the cap of the pen is fitted with a plunger for use during the filling operation, the inner end of the plunger having a peripheral recess for engagement with a split ring lodged in the cap body. It has also been proposed to provide the rear end of the barrel of a propelling pencil with a cap having a central hole through which refills are inserted, this cap being rotatably held on the barrel by means of a split ring fitting in registering grooves provided in the barrel and cap, so that the cap can be rotated relatively to the barrel without moving axially; the spring ring enables the cap to be forced over the ring into position on the barrel and held there.

According to the present invention a closure for the writing end of a fountain pen or like writing instrument is characterised by the interposition between the body of the fountain pen and the cap of

an elastic split ring, lodged in a groove in one of these two members and urged elastically against the wall of the other, thereby engaging it. This ring may be of phosphor bronze, steel or any other metal, alloy or material with sufficient elasticity.

The cap is cylindrical internally. In some cases it may be very slightly coned, especially at the mouth to allow easier entry.

The ring preferably has chamfered or rounded edges to allow easy engagement of the cap on the member to be closed; it may also have longitudinal striae for the passage of air into or out of the cap. In the act of decapping a fountain pen for example, the vacuum otherwise produced at this instant causes ink to be drawn past the nib and discharged into the cap.

An application of the invention to the closure of a stylograph or the like is shown in the accompanying drawing as an example with reference to which the invention will be further described.

In this example, to facilitate assembly the groove 1 in the pen body, in which the split ring 2 is mounted, is formed at the junction of two members 3 and 4, which together form the stylograph.

This ring 2 has chamfers such as 5, 5¹ to allow the cap 6 to be applied more easily. The cap has an internal diameter slightly greater than that of the member 4, but slightly less than the external diameter of the ring 2 when the latter is free to expand. In this way, when the cap 6 is put on, by the action of its rim 7 on the chamfer 5¹ it com-

presses the elastic ring 6 by closing it in to a smaller diameter; it then slides over the exterior flat surface of the ring 2 which bears against the interior wall of the cap. The cap is held in position merely by the friction of the ring.

The holding of the cap could however be improved by providing in its inner surface, at a level corresponding to its fully applied position a shallow groove or the like into which the elastic ring 3 engages.

It is also within the scope of the present invention, for the ring to be lodged in a groove in the interior wall of the cap, and a corresponding shallow groove may be provided on the pen body.

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 closure for the writing end of fountain pens and like writing instru-

ments characterised by the interposition 25 between the body of the fountain pen and the cap of an elastic split ring, lodged in a groove in one of these two members and urged elastically against the wall of the other, thereby engaging it. 30

2. A closure according to claim 1 in which the elastic ring is lodged in a groove in the body of the fountain pen or the like.

3. A closure according to either of the preceding claims in which the elastic ring is peripherally chamfered to facilitate the engagement of the cap with the ring.

4. A closure according to any of claims 1 to 3 in which the ring has striae lying lengthwise of the fountain pen or the like, to allow for the passage of air. 40

Dated this 3rd day of June, 1946.

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

