

101,241

PATENT



SPECIFICATION

Application Date, Feb. 26, 1916. No. 2882/16.

Complete Left, July 15, 1916.

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PROVISIONAL SPECIFICATION.

Improvements in Fountain and other Reservoir Pens.

I, DUNCAN CAMERON, Waverley Works, Blair Street, Edinburgh, Director of Limited Company, do hereby declare the nature of this invention to be as follows:—

This invention relates to fountain and other reservoir pens of the self-filling type comprising a collapsible rubber or other ink container or sack having a pressure bar or bars for the purpose of depressing the said container or sack so that it may draw up the ink and admit of the pen being filled on the bar or bars being released.

It has previously been proposed to employ pressure bars cemented or otherwise secured to the sack or container, it being necessary to withdraw the sack from the pen barrel to refill the pen. According to the present invention, however, it is proposed to employ loose pressure bars fitted preferably one on each side of the sack, the end of the pen barrel being detachable, so as to expose the ends of the pressure bars and admit of same being pressed together, the opposite ends of the bars being retained within the other or main portion of the pen barrel. The operation of filling is thus greatly facilitated; it being unnecessary to remove the sack from the barrel.

In carrying out the invention, the improved pen comprises a collapsible rubber sack or ink container which is secured to the usual detachable point section of the pen and is arranged to be located within the pen barrel or sheath. The outer end of the barrel is detachable and is preferably connected to the main portion of the barrel by a screw thread, the said end being adapted to be removed so as to expose the end of the rubber sack, without the necessity of removing the nib portion of the pen. Arranged one upon each side of the rubber sack or container is a pair of metal or other pressure bars, the said bars being located within the main portion of the barrel, and being kept in position by the pressure of the sack, which keeps them normally forced against the inner walls of the barrel. The said bars are arranged so that preferably about one half of each bar projects into the detachable end of the barrel, so that they are, together with the end of the rubber sack, exposed to view on the said detachable end being removed.

In order to fill the pen the detachable end is unscrewed and the bars pressed together so as to deflate the rubber sack; the pen is then inserted into the ink and the bars released, so that the ink is drawn up into the sack.

The operation of filling the pen is greatly simplified, all that is necessary being to remove the end of the pen and press the bars together, it being unnecessary to remove the sack from the barrel.

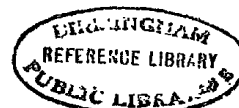
Dated this 25th day of February, 1916.

DUNCAN CAMERON.

By H. N. Skerrett.

Agent for Applicant.

[Price 6d.]



COMPLETE SPECIFICATION.

Improvements in Fountain and other Reservoir Pens.

I, DUNCAN CAMERON, of Waverley Works, Blair Street, Edinburgh, Director of Limited Company, 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 and other reservoir pens of the self-filling type comprising a collapsible rubber or other ink container or sac having a pressure bar or bars for the purpose of depressing the said container or sac so that it may draw up the ink and admit of the pen being filled on the bar or bars being released. 5

According to the present invention, it is proposed to employ unattached pressure bars arranged one on each side of the sac, the end of the pen barrel being detachable, so as to expose the ends of the pressure bars and admit of same being pressed together, the opposite ends of the bars being retained within the other or main portion of the pen barrel. 10

Figure 1 of the accompanying drawings is a sectional elevation showing the end of the barrel removed in order to expose the ends of the pressure bars for the purpose of filling the pen. 15

Figure 2 is a longitudinal section through the pen.

Figure 3 is a cross-section on line *x*, Figure 2.

Figure 4 shows the parts separated. 20

The improved pen comprises a collapsible rubber sac or ink container *a* secured to the usual detachable point section *b* of the pen and located within the pen barrel or sheath *c*. The outer end *c'* of the barrel is detachable and is preferably connected to the main portion *c* by a screw-thread as at *c²*, the said end *c'* being adapted to be removed, as shown in Figure 1, so as to expose the end of the rubber sac *a*, without the necessity of removing the point section *b* of the pen, which is screwed into the front end of the barrel. Arranged one upon each side of the rubber sac or container *a* is a pair of metal or other pressure bars *d, d*, the said bars being located within the main portion of the barrel *c* and being kept in position by the pressure of the sac, which maintains them normally forced against the inner walls of the barrel. The said bars *d, d*, are arranged so that preferably nearly one half of each bar projects into the detachable end *c'* of the barrel, so that they are together with the end of the rubber sac, exposed to view on the said detachable end being removed. 25 30

In order to fill the pen the end *c'* of the barrel is unscrewed as in Figure 1, and the bars *d, d*, are pressed together so as to deflate the rubber sac; the pen is then inserted into the ink and the bars released, so that the ink is drawn up into the sac. The operation of filling the pen is greatly simplified, all that is necessary being to remove the end *c* of the pen and press the bars together; it being unnecessary to remove the sac from the barrel *c*. 35 40

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 self-filling fountain or reservoir pen comprising a collapsible ink container or sac attached to the point section; a barrel surrounding the collapsible ink container and having a detachable end portion (*c'*), and two unattached pressure bars (*d*) arranged within the barrel upon opposite sides of the collapsible container and extending into the detachable end portion (*c'*) of the said barrel so as to be exposed, together with the end of the container, when the said detachable end portion is removed, substantially as described. 45 50

2. The improved self-filling fountain pen constructed, arranged, and operating as herein described and set forth in the accompanying drawings.

Dated this 14th day of July, 1916.

DUNCAN CAMERON.

By H. N. Skerrett,
24, Temple Row, Birmingham,
Agent for Applicant.

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

