N° 2671 A.D. 1905

Date of Application, 9th Feb., 1905

Complete Specification Left, 31st July, 1905—Accepted, 12th Oct., 1905

PROVISIONAL SPECIFICATION.

"Improvements in Fountain Pens."

We, THOMAS DE LA RUE & COMPANY, LIMITED, and EVELYN DE LA RUE, all of 110 Bunhill Row, in the City of London, do hereby declare the nature of this invention to be as follows:—

The object of this invention is to provide a fountain pen which shall be readily filled without a separate filler.

A pen made according to this invention is provided with a piston which is normally retained at the rear end of the pen but which can be engaged when it is necessary to fill the pen by the head of a longitudinal rod which passes out through the piston and the rear of the pen and is secured to a screw cap.

Preferably the head of the rod is so formed as to act as a valve in the well known manner to shut off the supply of ink to the nib when the pen is out of use and the rear side of the head has a screw thread cut upon it to engage a thread in the piston which may be secured to the interior of the pen by a bayonet joint.

When the pen is not in use the screw cap is screwed onto a thread cut on the exterior of the pen so moving the head against its seat to cut off the supply. When the pen is to be filled the screw cap is released from engagement with its thread and drawn rearward until the head meets the piston with which a few turns cause it to engage when a further turn disengages the bayonet joint and the piston can then be used like the piston of a syringe to fill the pen, the ink being drawn through the duct supplying the nib.

In order to allow of the escape of any ink which may pass behind the piston we preferably drill a small hole through the rear end of the pen.

Dated this 8th day of February 1905.

THOMAS DE LA RUE AND COMPANY LIMITED.
I. A. DE LA RUE,
W. AULD,
Directors
STUART DE LA RUE,
Secretary

EVELYN DE LA RUE.

COMPLETE SPECIFICATION.

"Improvements in Fountain Pens."

We, THOMAS DE LA RUE & COMPANY, LIMITED, and EVELYN DE LA RUE, all of 110 Bunhill Row, in the City of London, 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:—

The object of this invention is to provide a fountain pen which shall be readily filled without a separate filler.

A pen made according to this invention is provided with a piston which is normally retained at the rear end of the pen but which can be engaged when it is necessary to fill the pen by the head of a longitudinal rod which passes out through the piston and the rear of the pen and is secured to a screw cap.

[*Price* 8*d*.]

Preferably the head of the rod is so formed as to act as a valve in the well known manner to shut off the supply of ink to the nib when the pen is out of use.

When the pen is not in use the screw cap is screwed onto a thread cut on the exterior of the pen so moving the head against its seat to cut off the supply.

In order to allow of the escape of any ink which may pass behind the piston we preferably drill a small hole through the rear end of the pen.

A pen made according to this invention is shown in the accompanying drawings of which Figure 1 is a longitudinal section of the pen with the parts in the position for writing. Figure 2 is a section with the rod drawn back to engage the piston and Figure 3 is a section with the piston in its forward position.

a is the barrel, b the rod which passes out through the rear end of the barrel and terminates in a cap b^1 which normally screws onto the thread a^1 and holds the rod in its forward position. c is the piston which is normally retained as shown in Figure 1 by a pin or pins a^2 engaging a left handed bayonet slot or slots c^1. When it is desired to fill the pen the cap b^1 is unscrewed and pulled rearward as far as possible when it is turned gently to the right until a pin or pins b^2 upon the rod b engage a right handed bayonet slot or slots c^2 in the piston. The cap is then pulled a little further to the rear and again turned to the right. The first part of this turning movement locks the pins b^2 in the slots c^2 and the remaining movement unlocks the pins a^2 from the slots c^1. The piston can now be pushed forward by means of the cap and rod until it is checked by the stop a^3 at the front of the barrel as shown in Figure 3. The pen may now be filled as is an ordinary syringe, the ink being drawn up through the ducts supplying the nib.

In order to allow of the escape of any ink which may pass behind the piston a small vent a^4 may be drilled through the rear end of the barrel.

Preferably the head of the rod b is provided with a valve b^3 which comes against a seat d formed in the nib carrier d^1 so that by screwing the cap b^1 up tight no ink can escape and the pen may be carried in any position without fear of leakage. When the pen is to be used the cap b^1 must of course be unscrewed more or less according to the flow of ink required.

The feed e which is shown in the drawing has ink ducts e^1 both above and below the nib f giving an ample and regular flow.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that we wish it to be understood that we are aware that it has before been proposed to employ a piston and a rod by which the piston can be engaged and we make no broad claim to such an arrangement but what we claim is:—

1. In a fountain pen the combination with a piston and piston rod which can engage the piston when desired, of means for retaining the piston at the rear end of the barrel substantially as described.

2. In a fountain pen the combination of a piston, a piston rod, a bayonet joint for connecting the piston to the rod and a second bayonet joint acting in the opposite sense to the sense for retaining the piston at the rear of the barrel substantially as described.

Dated this 19th day of July 1905.

THOMAS DE LA RUE AND COMPANY LIMITED.

EVELYN DE LA RUE
W. P. FULLER
Directors

W. AULD,
Acting Secretary

EVELYN DE LA RUE.

Redhill: Printed for His Majesty's Stationery Office, by Love & Malcomson, Ltd.—1905.

A.D 1905. FEB. 9. N.° 2671.

THOMAS DE LA RUE & CO. [LTD.] & *another's* COMPLETE SPECIFICATION. *(1 SHEET)*.

[This Drawing is a full-size reproduction of the Original.]

Fig. 1.

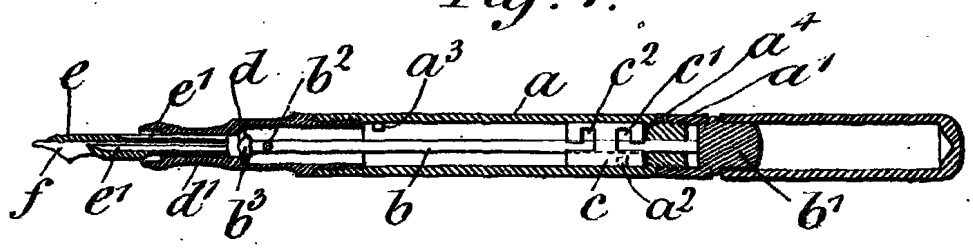


Fig 2

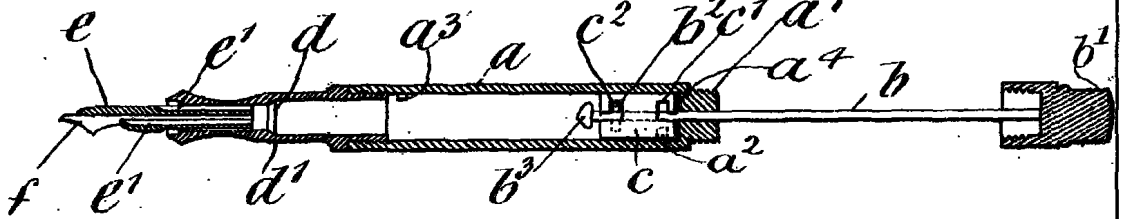
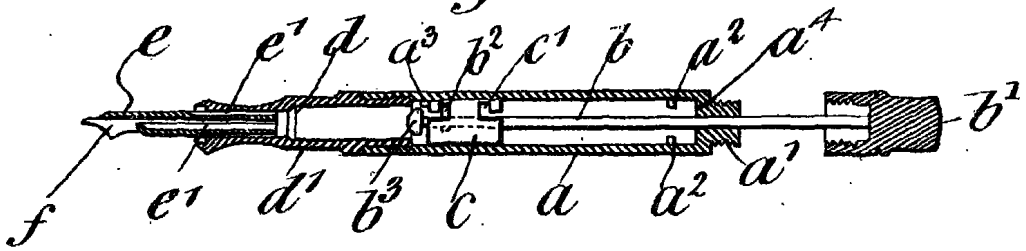


Fig. 3.



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