

N^o 948



A.D. 1914

Date of Application, 13th Jan., 1914.

Complete Specification Left, 2nd July, 1914—Accepted, 15th Oct., 1914

PROVISIONAL SPECIFICATION.

Improvements in or relating to Fountain Pens.

I, **CECIL BRISTOW**, of 20, St. German's Road, Forest Hill, in the County of London, Works Manager, do hereby declare the nature of this invention to be as follows:—

This invention relates to fountain pens and especially to fountain pens of the safety type. The object of this invention is to provide an improved pen of this type.

A fountain pen made in accordance with this invention is provided with a valve disposed near the nib end of the holder adapted to be closed by a spring pressed stem; a spindle at or near the upper end of the holder adapted to be rotated; a groove or pin in the spindle adapted to engage with a pin or groove in or on the stem of the valve whereby on rotating the spindle the valve is moved in relation to its seat, with means for keeping the valve stem from rotating.

Fig. 1 is a diagrammatic section of one form of fountain pen made in accordance with this invention.

Fig. 2 is a section on line $x-x$ Fig. 1.

a is the barrel of the pen, b is an end piece provided with a valve seat c and a cylindrical recess d adapted to receive the nib e and duct piece f . g is the valve stem with a tapered end h adapted to bear on the valve seat c . The stem is provided with a collar j and pin k . m is a spindle provided with a hollow cylindrical end n . A slot o is cut in the part n and engages with the pin k . The spindle m is attached to a tapered end piece p by a pin, a gland q is screwed into the upper end of the holder, $r r$ is packing. s is a spring disposed between the collar j and the cylindrical end n .

A groove v is provided in the barrel with which the pin k engages.

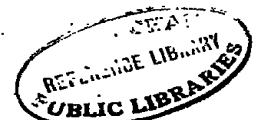
The cap w is adapted to fit on either end of the holder.

When it is desired to open the valve, the cap w is placed on the tapered end piece p and given, say a quarter turn, whereby the spindle m rotates causing the stem to move longitudinally of the holder, against the action of the spring s , the pin k travelling in the slot o on the part n ; the stem is prevented from rotating in the holder by reason of the pin k engaging with the groove v in the barrel. In turning the cap in the reverse direction the valve stem is moved in the opposite direction and the spring s closes the valve on its seat.

Dated this 13th. day of January, 1914.

MEWBURN, ELLIS & PRYOR,
70 & 72, Chancery Lane, London, W.C.,
Chartered Patent Agents.

[Price 8d.]



Bristow's Improvements in or relating to Fountain Pens.

COMPLETE SPECIFICATION.

Improvements in or relating to Fountain Pens.

I, CECIL BRISTOW, of 20, St. German's Road, Forest Hill, in the County of London, Works Manager, 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 and especially to fountain pens of the safety type. The object of this invention is to provide an improved pen of this type. 5

A fountain pen made in accordance with this invention is provided with a valve which is disposed on a stem which extends from near the nib end of the holder to near the upper end of the holder, said valve being adapted to be held normally on its seat by a spring, said stem being moved to open and close the valve by a rotatable spindle situate within and near the upper end of the holder. 10

In the drawings filed with the Provisional Specification:—

Fig. 1 is a diagrammatic section of one form of fountain pen made in accordance with this invention. 15

Fig. 2 is a section on line *x—x* Fig. 1.

In the drawings filed herewith which are numbered consecutively with those filed with the prior specification;

Figs. 3 and 4 are modified constructions of the valve stem.

Referring to the drawings filed with the Provisional Specification. 20

a is the barrel of the pen, *b* is an end piece provided with a valve seat *c* and a cylindrical recess *d* adapted to receive the nib *e* and duct piece *f*. *g* is the valve stem with a tapered end *h* adapted to bear on the valve seat *c*. The stem is provided with a collar *j* and pin *k*. *m* is a spindle provided with a hollow cylindrical end *n*. A slot *o* is cut in the part *n* and engages with the pin *k*. 25 The spindle *m* is attached to a tapered end piece *p* by a pin, a gland *q* is screwed into the upper end of the holder, *r r* is packing. *s* is a spring disposed between the collar *j* and the cylindrical end *n*.

A groove *v* is provided in the barrel with which the pin *k* engages.

The cap *w* is adapted to fit on either end of the holder. 30

When it is desired to open the valve, the cap *w* is placed on the tapered end piece *p* and given, say a quarter turn, whereby the spindle *m* rotates causing the stem to move longitudinally of the holder, against the action of the spring *s*, the pin *k* travelling in the slot *o* on the part *n*, the stem is prevented from rotating in the holder by reason of the pin *k* engaging with the groove *v* in the barrel. In turning the cap in the reverse direction the valve stem is moved in the opposite direction and the spring *s* presses the valve on its seat. 35

In the construction shown in Fig. 3, the stem *g* is provided with a spring pressed head 2 which may be used in addition to or in lieu of the spring *s*. The head encloses a spring 3 which bears against the end 4 of the stem *g*. 40

In the construction shown in Fig. 4, another form of spring pressed head is shown adapted to be used instead or in addition to the spring *s*. In this case the head 5 works in the stem *g*.

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:— 45

1. A fountain pen of the safety type, characterised in that a valve is disposed on a stem which extends from near the nib end of the holder to near the upper end of the holder, said valve being adapted to be held normally on its seat by

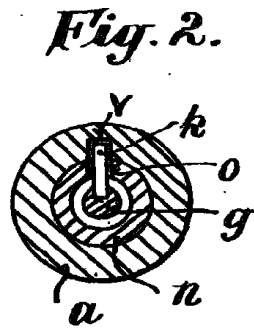
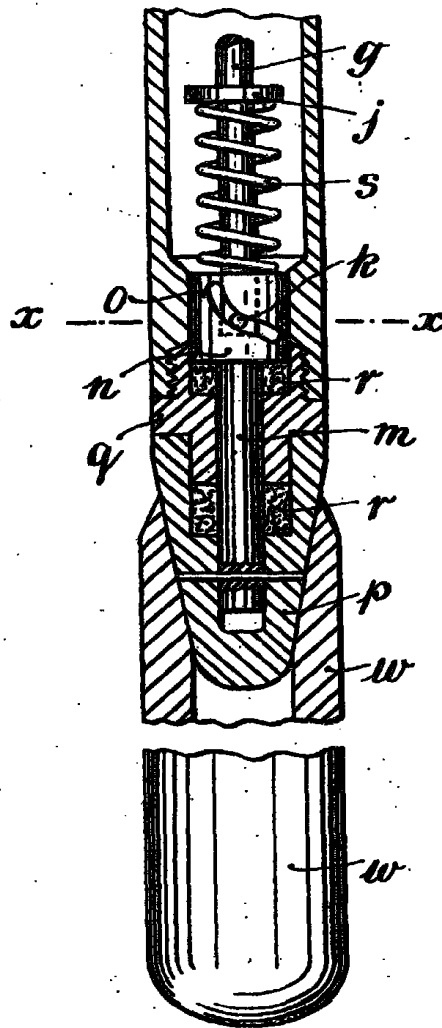
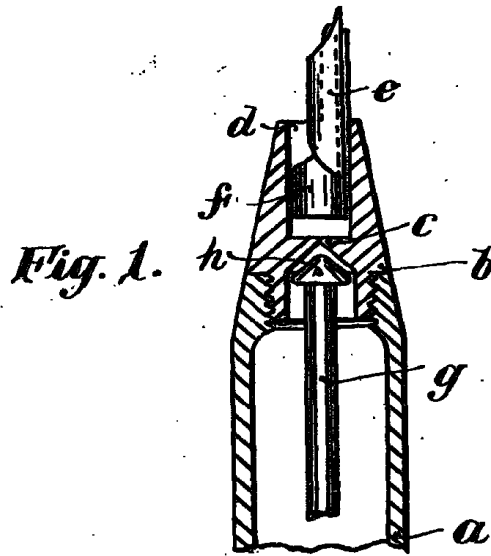
Bristow's Improvements in or relating to Fountain Pens.

a spring, said stem being moved to open and close the valve, by a rotatable spindle situate within and near the upper end of the holder substantially as described.

2. A safety fountain pen constructed arranged and adapted for use substantially as described.

Dated this 2nd day of July, 1914.

MEWBURN, ELLIS & PRYOR,
70 & 72, Chancery Lane, London, W.C.,
Chartered Patent Agents.

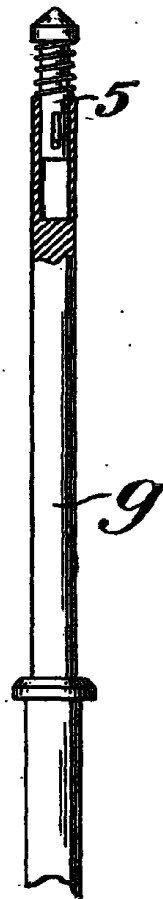


[This Drawing is a reproduction of the Original on a reduced scale.]

Fig. 3.



Fig. 4.



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