PATENT SPECIFICATION

621,822

No. 3367/46

Application Date: Nov. 13, 1946

Complete Specification Left: June 17, 1947.

Complete Specification Accepted: April 20, 1949.

Index at acceptance :—Class 146(iii), A11(k : x).

PROVISIONAL SPECIFICATION

Improvements in or relating to fountain pens

ERRATUM

SPECIFICATION NO. 621,822

In the heading on Page 1, *for* "No. 3367/46" *read* "No. 33676/46".

THE PATENT OFFICE,
18th October, 1949.

DS 14322/1/3303 150 10/49 R

marking.

According to the present invention, a single ball is used in conjunction with two

125, High Holborn, London, W.C.1., and 139, Dale Street, Liverpool. 2.
Chartered Patent Agent.

COMPLETE SPECIFICATION

Improvements in or relating to fountain pens

We, MABIE TODD & COMPANY LIMITED (a Company organised under the laws of Great Britain and Northern Ireland), LESLIE WILLIAM JOHNSON (British Nationality) and EDWARD STEPHEN SEARS (British Nationality), all of 41, Park Street, Mayfair, London, W. 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 of the type in which a rotatably positioned ball of hardened steel or other suitable substance provides the means of spreading the ink in known manner.

According to the present invention, we utilize one ball, which constitutes the writing point, in conjunction with two tubes located in the bore of the writing end of the pen, one—a short tube or sleeve —holding the ball against the end of the inner or feed tube but so that it is free to revolve during use, the feed tube—a somewhat longer tube — being inserted in the ball-retaining tube and secured by force fit, creasing and spinning, swaging, or in any convenient manner. The other end of said longer tube is connected to the ink reservoir or ink supply.

It is to be noted that the present invention is readily adaptable to a pen whereof the feed tube is bent at an angle or inclination to the longitudinal axis of the pen prior to insertion in the nose of the pen barrel.

We will further describe our invention with the aid of the accompanying sheet of explanatory drawings which illustrate, by way of example and not of limitation, two modes of embodying same.

In said drawings :—

Figs. 1 and 2 are, respectively, longitudinal section and exploded view of one form of ball and ink feeding arrangement, and Figs. 3 and 4 are, respectively, longitudinal section and detached component illustrating a modification.

Like characters of reference denote like parts.

a denotes the point or nose section of a pen, and *b* the conventional bore thereof. *c* is an ink feed tube the upper end whereof is connected to the ink supply. A ball *e* is located, while free to revolve, by a small tube or sleeve *f* swaged around said ball, and also secured to feed tube *c*.

(PRICE 2/-)

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This invention relates to fountain pens of the type in which a hardened ball is utilized as a direct means of writing or marking.

According to the present invention, a single ball is used in conjunction with two tubes, one tube—a shorter one—containing the ball, and the other — a somewhat longer tube—being inserted in the ball-containing tube and held by force fit, creasing and spinning, swaging, or in any suitable manner. The other end of said longer tube is connected to the reservoir or ink supply.

The whole assembly may be inserted in the pen body or barrel as a separate unit.

Dated this 12th day of November, 1946.

JOHN HINDLEY WALKER,
125, High Holborn, London, W.C.1.,
and 139, Dale Street, Liverpool. 2.
Chartered Patent Agent.

COMPLETE SPECIFICATION

Improvements in or relating to fountain pens

We, MABIE TODD & COMPANY LIMITED (a Company organised under the laws of Great Britain and Northern Ireland), LESLIE WILLIAM JOHNSON (British Nationality) and EDWARD STEPHEN SEARS (British Nationality), all of 41, Park Street, Mayfair, London, W. 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 of the type in which a rotatably positioned ball of hardened steel or other suitable substance provides the means of spreading the ink in known manner.

According to the present invention, we utilize one ball, which constitutes the writing point, in conjunction with two tubes located in the bore of the writing end of the pen, one—a short tube or sleeve —holding the ball against the end of the inner or feed tube but so that it is free to revolve during use, the feed tube—a somewhat longer tube — being inserted in the ball-retaining tube and secured by force fit, creasing and spinning, swaging, or in any convenient manner. The other end of said longer tube is connected to the ink reservoir or ink supply.

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Like characters of reference denote like parts.

a denotes the point or nose section of a pen, and *b* the conventional bore thereof. *c* is an ink feed tube the upper end whereof is connected to the ink supply. A ball *e* is located, while free to revolve, by a small tube or sleeve *f* swaged around said ball, and also secured to feed tube *c*.

(PRICE 2/-)

In the arrangement of Figs. 1 and 2, said tubes are straight i.e. in alignment with the main axis of the pen; whilst, in Figs. 3 and 4, the lower portion of feed tube *c* is bent at an angle or inclination to the pen's axis.

The whole assembly comprising said tubes *c*, *f*, and ball *e* may be inserted in the pen body or barrel *a* as a separate unit.

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 what we claim is:—

1. A fountain pen in the bore whereof is located a feed tube at the writing end of which is situated a ball held between the end of the tube and one end of a sleeve secured to the tube.

2. A fountain pen as claimed in the preceding claim, in which the lower portion of the feed tube is bent at an angle or inclination to the main axis of the pen.

3. A fountain pen substantially as hereinbefore described and illustrated in Figs. 1 and 2 of the accompanying drawings.

4. A fountain pen substantially as hereinbefore described and illustrated in Figs. 3 and 4 of the accompanying drawings.

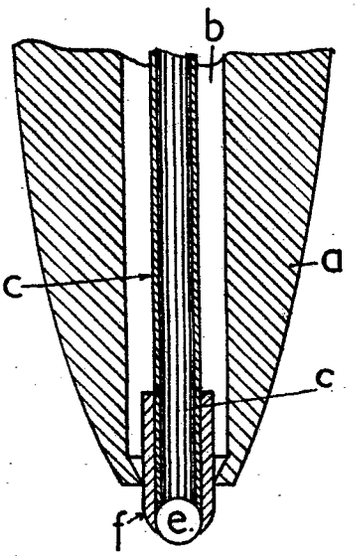
Dated this 12th day of June, 1947.

JOHN HINDLEY WALKER,
125, High Holborn, London, W.C.1.,
and 139, Dale Street, Liverpool. 2.
Chartered Patent Agent.

Printed for H.M. Stationery Office by A. Quick & Co., Ltd., Clacton-on-Sea.—39-243-1948.
Published at The Patent Office, 25, Southampton Buildings, London, W.C.2.,
from which copies price 2s. 0d. each (inland), 2s. 1d. (abroad) may be obtained.

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

FIG.1.



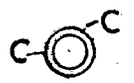


FIG.2.

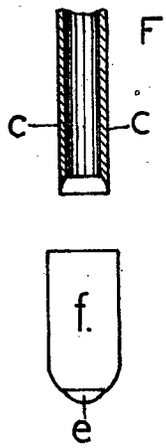


FIG.3.

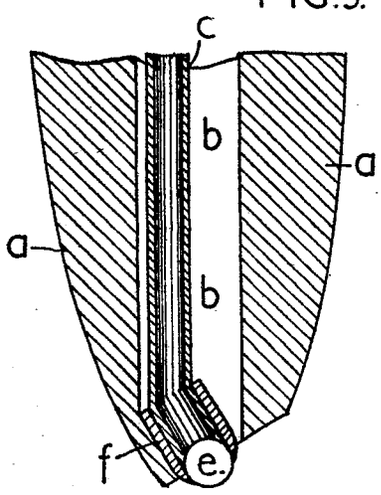
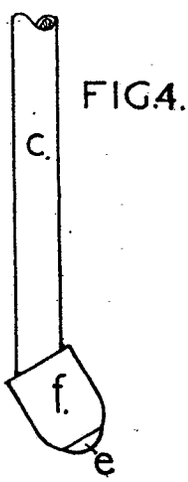


FIG.4.



H.M.S.O. (Ty.P.)