April 17, 1934. E. S. SEARS 1,954,952

FOUNTAIN PEN

Filed Aug. 12, 1932

Fig:1.

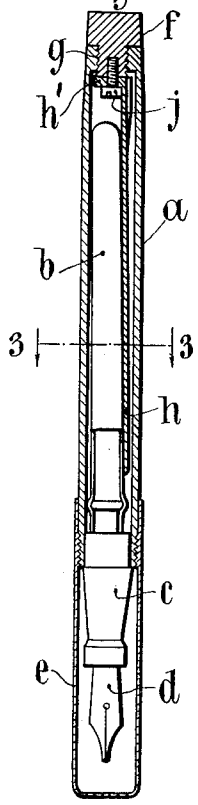


Fig:2.

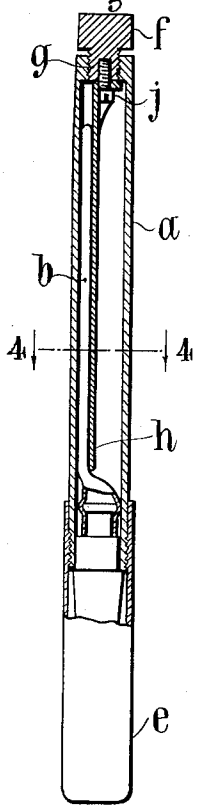


Fig:5.

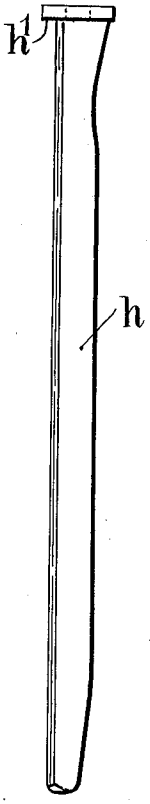
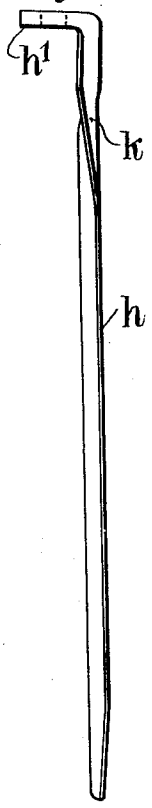


Fig:6.



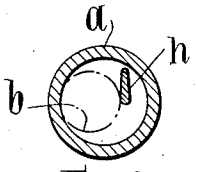


Fig:3.

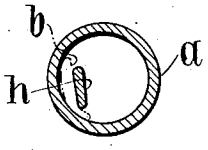


Fig:4.

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UNITED STATES PATENT OFFICE

1,954,952

FOUNTAIN PEN

Edward Stephen Sears, Thornton Heath, England, assignor to Mabie, Todd & Company, Limited, London, England, a corporation of Great Britain

Application August 12, 1932, Serial No. 628,564
In Great Britain January 7, 1932

2 Claims. (Cl. 120—46)

This invention relates to self-filling fountain pens.

The object of this invention is to provide improved means for filling a fountain pen.

A fountain pen comprising in combination a barrel, a sac, a nib section, a feed bar, a writing-point, a rotatable plug or plate provided on that end of the barrel remote from the nib section, a blade attached to the said rotatable plug, said blade being so shaped and disposed that on the plug being rotated in one direction the blade presses against and compresses the sac whereby deflation takes place, and on rotating the plug in the opposite direction when the writing-point is immersed in ink the sac becomes filled with ink.

Referring to the drawing filed herewith:

Fig. 1 is a sectional elevation of one form of fountain pen with the sac inflated, made in accordance with this invention;

Fig. 2 is a side view showing the sac deflated;

Figs. 3 and 4 are sectional plans on lines 3—3, and 4—4.

Figs. 5 and 6 are views at right angles to one another showing one form of blade suitably shaped to carry out this invention.

a is the barrel, *b* the sac, *c* the nib section, *d* the writing-point, *e* the cap, *f* the rotatable plug. The plug *f* is threaded at *g* to engage with the thread on the barrel *a*. The blade *h* is provided with a flange *h'* which is attached to the plug *f* by a left-handed threaded screw *j*. The blade is eccentrically disposed with respect to the axis of the barrel and is twisted at *k*.

In use, assuming the sac *b* to be inflated as shown in Fig. 1, and that it is desired to deflate the sac, the plug *f* is rotated so that the blade *h* presses the sac against the side of the barrel *a* and flattens it. If the writing-point is now immersed in ink and the plug *f* is rotated in the reverse direction, the sac *b* expands and ink is drawn in.

What I claim and desire to secure by Letters Patent is:—

1. A self filling fountain pen comprising a barrel portion, a writing point, an ink sac located within the barrel, a presser bar adapted to compress the said ink sac, and means to effect the rotation of the presser bar, the said presser bar being constituted by a simple rigid member mounted at one end only for rotation about the longitudinal axis of the barrel and inclined to the axis of the barrel so that upon rotation the presser bar first impresses the closed end of the sac and the remainder of the sac progressively as rotation of the bar continues.

2. A self filling fountain pen as claimed in claim 1 characterized in that the leading or active edge of the presser bar is positioned nearer to the axis of rotation than the trailing edge, and that the leading edge of the presser bar is inclined to its axis of rotation.

EDWARD STEPHEN SEARS.