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STYLOGRAPHIC FOUNTAIN PEN.

APPLICATION FILED JULY 7, 1919.

1,340,926. **Patented May 25, 1920.**

Fig. 1.

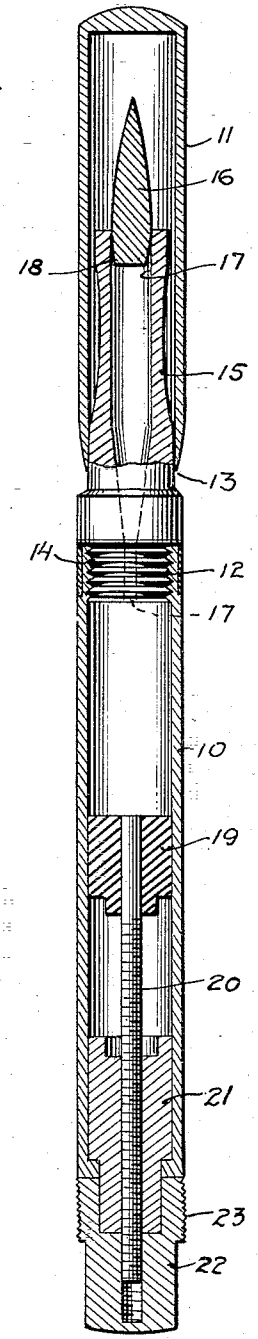


Fig. 3.

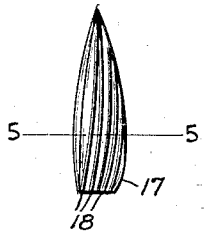


Fig. 4.

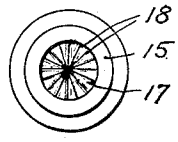


Fig. 5.



Fig. 2.



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UNITED STATES PATENT OFFICE.

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STYLOGRAPHIC FOUNTAIN-PEN.

1,340,926. Specification of Letters Patent. Patented May 25, 1920.

Application filed July 7, 1919. Serial No. 308,941.

To all whom it may concern:

Be it known that I, CHARLES WEITZ, a citizen of the United States, and resident of the city of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Stylographic Fountain-Pens, of which the following is a specification.

This invention relates to pens and is particularly directed to providing a newly improved stylographic pen.

One object of my invention is to provide a stylographic fountain pen.

Another object of my invention is to provide a stylographic fountain pen which shall be self-filling.

A further object of my invention is to provide a stylographic fountain pen with simple and efficient means for filling and emptying the same, which means shall be cheap to manufacture.

A still further object is to provide in a stylographic pen a pen point which shall be efficient in its operation and prevent too free a flow of ink and dropping of ink on the writing material.

Other objects and advantages of this invention will appear from the detailed description and the features of novelty will be particularly pointed out in the claims.

In the drawing accompanying this specification and forming a material part thereof,

Figure 1 is an enlarged longitudinal section of a stylographic self-filling fountain pen embodying my invention;

Fig. 2 is a vertical elevation of the same shown ready for use;

Fig. 3 is a vertical elevation of a stylographic pen point embodying my invention;

Fig. 4 is a top view of the pen with the cover off; and

Fig. 5 is a cross-sectional view of the pen point taken along line 5—5 of Fig. 3.

Referring in detail to the drawing, 10 indicates the barrel of the pen and 11 the detachable cover. The barrel is threaded at the top as at 12 for the feed and holder member 13 which comprises a threaded collar 14 adapted to screw into the barrel and a hollow tubular member 15 preferably integral with and extending from said collar in which is held frictionally or otherwise the stylographic pen point 16. The collar 14 is perforated at 17 and the ink is fed therethrough and the tubular member 14 to the pen point, as will be readily understood.

The pen point 16 is made of glass or some other such hard material suitable to form a stylus, and is tapered at the bottom as at 17, so that when it is forced into the holding tube 15, there is a space 18 through which the ink flows to the pen. The material of the pen point or stylus 16 has formed in the surface thereof curved channels or ducts 18 which converge to the point, and the ink is thus forced to flow through long curved paths to the writing point. In this way the flow of ink is impeded somewhat and no ink drops on to the paper or other writing material, as would be the case if the grooves were straight.

The self-filling mechanism comprises a small suction device operating within the barrel. A piston 19, suitably air tight, is secured to a threaded plunger rod 20 which extends into a correspondingly threaded block 21 held in the lower portion of the barrel. In frictional engagement with said block is the thumb piece 22 having a knurled head 23 whereby the piston may be reciprocated in the barrel by turning the same, as will be readily understood.

I claim:

1. In a stylographic fountain pen having a barrel, a pen point of hard material adapted to be held in said barrel having a writing point at one end thereof and curved channels running from the other end converging to said point wherethrough the ink is fed from the barrel to the point.

2. In a stylographic pen, a pen point of hard material formed with curved channels on the surface thereof converging to a writing point, and tapered at the opposite end, said channels running from said tapered end to said point.

3. A stylographic fountain pen comprising a barrel, a feed member, a pen holding member and a pen point held in the latter and tapered at the end extending therein to form a space therebetween and said holding member, said channels running from said tapered end to said point.

4. A stylographic fountain pen comprising a barrel, a feed member, a pen holding member and a pen point held in the latter and tapered at the end extending therein to form a space therebetween and said holding

member, said pen point comprising a piece of hard material formed on the outer surface thereof, with curved channels converging to a writing point, said channels running from said tapered end to said point.

5. In a stylographic fountain pen having a barrel, a pen point of hard material adapted to be held in said barrel having a writing point at one end thereof and being tapered at the other end and curved channels running from said tapered end and converging to said point wherethrough the ink is fed from the barrel to the point.

6. In a stylographic fountain pen having a barrel, a pen point of hard material adapted to be held in said barrel having a writing point at one end thereof and being tapered at the opposite end, said tapered end having channels formed therein communicating with said writing point to feed the ink from the barrel thereto.

Signed at New York city, in the county of New York and State of New York, this 23rd day of June, A. D. 1919.

CHARLES WEITZ.