

C. F. BACKMYER.

PEN.

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1,055,507.

Patented Mar. 11, 1913.

Fig. 1

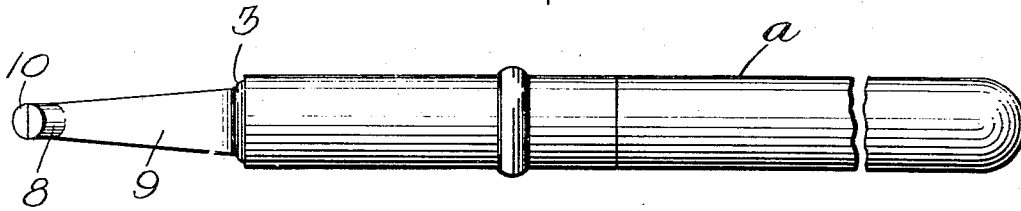


Fig. 2

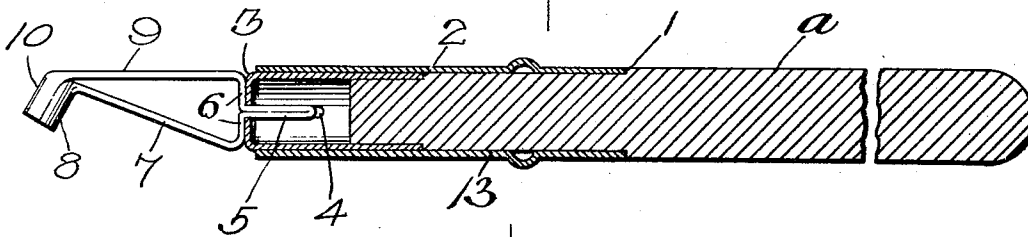


Fig. 3

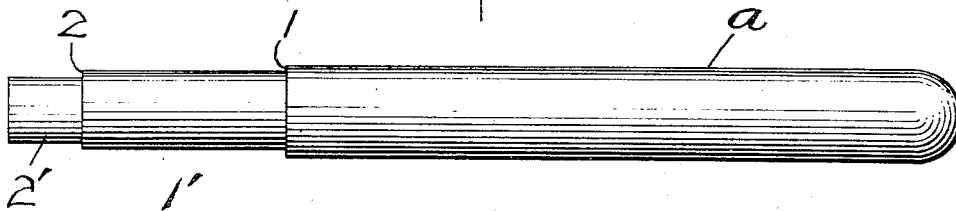


Fig. 4

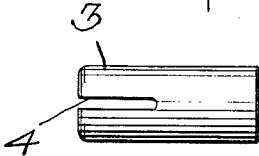


Fig. 5

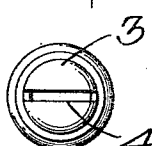
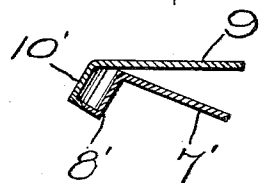


Fig. 6



Witnesses

Ed. R. Luby
Geo. Lamb

Inventor
Christopher F. Backmyer

By

Geo. W. Lues.

Attorney

UNITED STATES PATENT OFFICE.

CHRISTOPHER F. BACKMYER, OF CHICAGO, ILLINOIS.

PEN.

1,055,507.

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To all whom it may concern:

Be it known that I, CHRISTOPHER F. BACKMYER, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Pens, of which the following is a specification, reference being had to the accompanying drawings.

The object of my invention is to provide a writing or drawing pen which will make a line of uniform width regardless of the direction in which the pen is drawn.

In the accompanying drawings forming a part of this specification:—Figure 1 shows a bottom view of a pen embodying my invention with portions broken away. Fig. 2 is a lengthwise sectional view disclosing the pen point in side view. Fig. 3 shows a detached detail of the holder. Fig. 4 is a detail in side view of the keeper as used in my invention. Fig. 5 shows an end view of the keeper, while Fig. 6 shows a fragmentary portion in section of a modification in which the pen nibs are cup-shaped.

In carrying out the aim of my invention which is to provide a pen adapted to be used in writing, lettering, and in ruling lines, I provide a pen so constructed, that the same will make a broad line of uniform width, regardless of the direction in which the pen is moved. In many arts, a pen is required that will make a broad black line of equal and uniform width such pens being used by artists and others in lettering, and also in ruling work.

In the drawings, the numeral *a* identifies a suitable staff forming the holder, made of wood, rubber, or any other suitable material, which is provided with the circular shoulders 1 and 2, as clearly disclosed in Fig. 3. This staff or holder is of any suitable length, thickness, and diameter. Secured to the reduced end, 2' of the staff is the tubular keeper 3, provided with a cap having a slot 4, within which the pen tang is held. The pen comprises two resilient arms, marked 7 and 9, from the upper one of which extends, in prolongation with the edge of the holder *a*, these arms being in the form of flat spring members slightly tapering toward their forward ends. Extending from the outer end of the arm 9, is the nib or point 10, in the form of a solid semi-cylinder, the flat end or face of which extends in a plane

forming an acute angle with the arm 9. The nib 10 extends obliquely from the arm 9, and forms an obtuse angle therewith. Extending at right angles from the opposite end of the arm 9, is the shoulder forming section 6, centrally from which is continued the tang 5 of double thickness, and continued from this shoulder is the lower arm 7, ending in the semi-cylindrical nib 8, which with the nib 10 forms a complete cylinder. These nibs 8 and 10, are held in yielding relation, the ends of both terminating in a common plane, and forming a complete circle. As shown in Fig. 2, the arm 7 extends obliquely to the arm 9.

While the nibs 8 and 10 in most cases will be solid, they may be in the form of semi-cups, as shown in the modification disclosed in Fig. 6, so that the nibs form an ink reservoir.

Secured to the staff *a* is a ferrule 13, which is securely held upon the staff portion 1', and snugly held within this ferrule 13, and upon the end portion 2' of the staff is the slotted tubular keeper 3 arranged to have its end project slightly beyond the end of the ferrule 13 as shown in Fig. 2. This tubular keeper is in the form of a cap having one end closed, and the closed end serves as a stop upon which the members 6 rest as shown in Fig. 2. The socket or slot 4, enters through the cap, as disclosed in Fig. 4. The tang 5 is of a width so as to snugly fit into the ferrule 13 while the springing tendency of the two-part tang is sufficient to firmly hold the pen point within the keeper.

As disclosed, the flat faces of the nibs 8 and 10, extend approximately at an angle of 30° to the upper spring arm 9.

From the foregoing it will be seen that I provide a pen, the nibs of which present a flat circular face of a diameter equal to the width of the line to be made. The ink flows by capillary action along the arms 7 and 8 and between the nibs, which are made of some suitable non-corrosive material.

It is immaterial in what direction the pen is drawn, as long as the faces are in proper contact with the paper, the width or thickness of the line made by the pen will be uniform.

It is of course understood that the pens may be made in different sizes. The pen is filled as is any ordinary bow-pen in placing the ink between the arms 9 and 7.

Having thus described my said invention, what I claim as new and desire to secure by United States Letters Patent is:—

1. A pen of the character described, comprising the combination of two semi-cylindrical nibs each terminating in a semi-circular face, held at an angle to the axis of the pen.
2. A pen of the character described comprising the combination of two yieldingly held semi-circular nibs, each terminating in a semi-cylindrical face, held at an acute angle to the axis of the holder.
3. A pen comprising the combination with a keeper, of two arms extending therefrom, each ending in a semi-circular face, the combined faces forming a disk.
4. The combination with a pen holder, of a keeper, two yieldingly held arms, extending from said keeper, each arm terminating

in a semi-circular nib, said combined nibs forming a disk face extending in a plane at an angle to the axis of the pen.

5. The combination in a pen, of a holder, a ferrule secured to said holder, a keeper secured to said holder and held within said ferrule, and a writing pen comprising a tang held within said slotted tubular keeper including two arms held in yielding relation, said arms terminating in a semi-circular nib, the ends or faces of said nibs extending in a common plane at an angle to the axis of the pen.

In testimony whereof I affix my signature, in presence of two witnesses.

CHRISTOPHER F. BACKMYER.

Witnesses:

MINNIE C. WERDEN,
BESSIE SCHWARTZ.