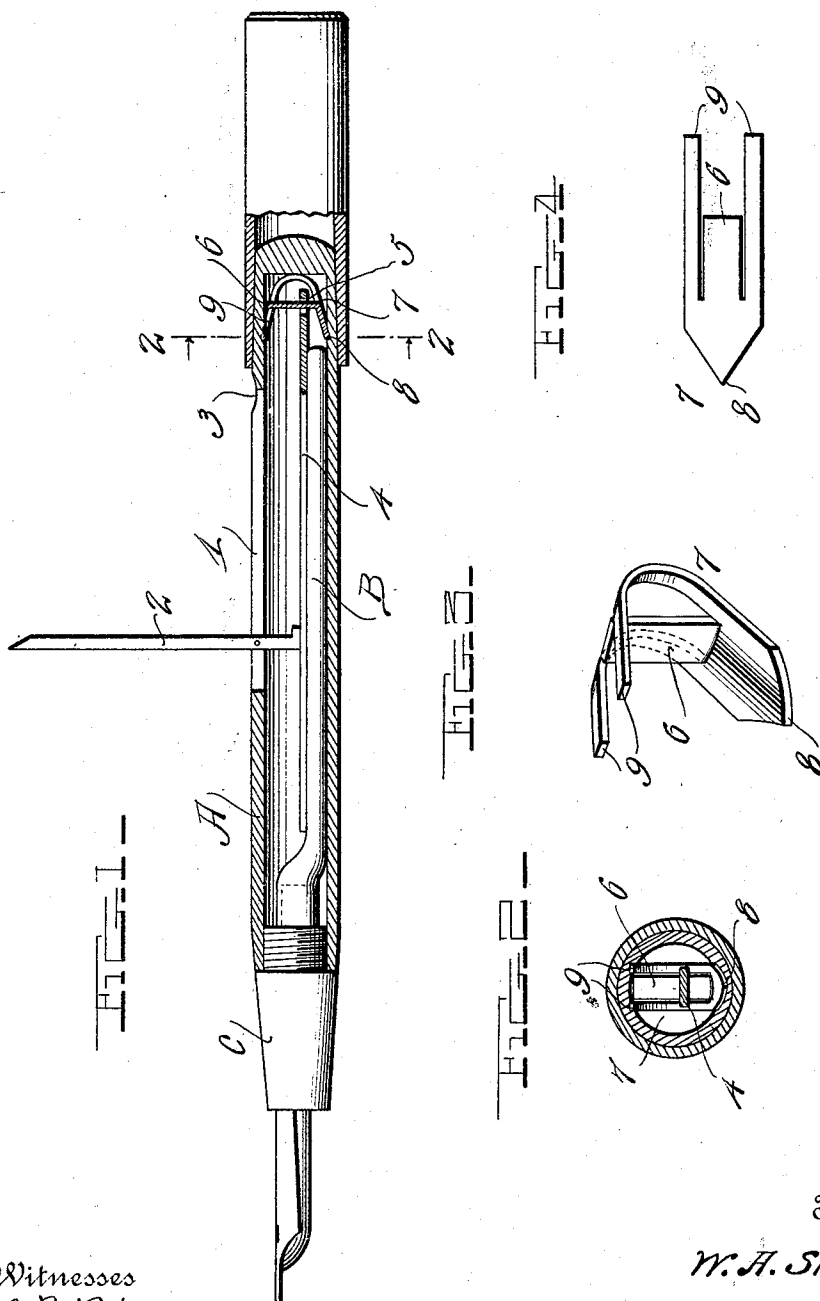


W. A. SHEAFFER.
 FOUNTAIN PEN ATTACHMENT.
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1,046,660.

Patented Dec. 10, 1912.



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UNITED STATES PATENT OFFICE.

WALTER A. SHEAFFER, OF FORT MADISON, IOWA.

FOUNTAIN-PEN ATTACHMENT.

1,046,660.

Specification of Letters Patent.

Patented Dec. 10, 1912.

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To all whom it may concern:

Be it known that I, WALTER A. SHEAFFER, a citizen of the United States, residing at Fort Madison, in the county of Lee and State of Iowa, have invented certain new and useful Improvements in Fountain-Pen Attachments; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in fountain pens employing an elastic ink tube or reservoir and a lever and plate for compressing the tube or reservoir to create a vacuum therein, a suction being established through the pen holder section during the expansion of the elastic tube or reservoir whereby the same will be refilled with ink during the expansion of said tube into its normal position.

The object of this invention is to provide simple and efficient means for securing the reservoir compressing plate in the barrel of the pen, without the use of rivets or pins.

With this and other objects in view the invention consists of certain novel features of construction, combination and arrangement of parts, as will be more fully described and claimed hereinafter.

In the accompanying drawings Figure 1 represents a side elevation partly in longitudinal section of a fountain pen equipped with this improvement. Fig. 2 is a transverse section thereof taken on the line 2—2 of Fig. 1. Fig. 3 is a detail perspective view of the plate securing element constituting this invention. Fig. 4 is a plan view of the blank from which said element is formed.

Referring more particularly to the drawings the outer casing A, an elastic ink reservoir or tube B, and the pen holder section C of a fountain pen are shown, all of which may be of any ordinary or approved construction and therefore need no particular description.

The casing A is provided near its outer end with a longitudinally extending slot 1 between the walls of which and at a point preferably adjacent to the inner end thereof is pivoted an operating lever 2 which when in its normal position, extends the full length of the slot 1.

In the pen, at the outer end of the slot 1,

a recess 3 is formed in the outer casing for the insertion of the finger nail to raise the long end of the lever 2 when it is desired to compress the ink reservoir. This lever is normally held within the slot 1 by the engagement of its short end with the expanded reservoir B.

A compressing member 4, preferably in the form of a flat, rectangular metallic plate, is arranged between the ink reservoir or tube and the outer casing, the outer end of the plate being formed with a transversely arranged slot 5 designed to engage loosely a tongue 6 of a securing element 7 which holds the plate reliably in position in the pen barrel or casing, and permits it to move freely thereon in a direction transversely of the casing but prevents it from moving longitudinally therein. This plate securing member 7 is made in the form of a spring clip having diverging spurs 8 and 9 which are designed to engage the inner walls of the casing A at substantially diametrically opposite points and thereby hold the plate 4 connected with the tongue 6 thereof in operative position. This clip 7 is formed from a sheet metal plate which is preferably slightly resilient, and is pointed at one end to form the spur 8 and is slit longitudinally near its opposite edges at its other end to form the biting fingers or spurs 9 which are bent to lie in a plane substantially parallel with the spur 8, said planes diverging slightly toward the free ends of said spurs. The end of the plate between the fingers or spurs 9 is bent at right angles to the spur 8 and cut off to form the tongue 6 with which the plate 4 is engaged. The device or clip 7 when complete is in substantial U-shape the cross bar of which forms the plate engaging tongue. By the use of this clip the plate is reliably held in position without the use of rivets and it may be cheaply manufactured and quickly applied, without the use of tools.

I claim as my invention—

1. A securing clip for a compressing member of a fountain pen, comprising a substantially U-shaped element with the legs thereof diverging and having spurs at their free ends, and a tongue extending transversely between said legs.

2. A securing clip for a compressing member of a fountain pen comprising a substantially U-shaped element having one leg

sharpened to form a spur and the other leg slit to form two spurs and a tongue, said tongue being arranged between said pair of spurs and of less length.

- 5 3. A securing clip for a compressing member of a fountain pen comprising a substantially U-shaped element having one leg sharpened to form a spur and the other leg slit to form two spurs with a tongue be-
10 tween them, said tongue being bent in a

plane at right angles to said first mentioned spur.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WALTER A. SHEAFFER.

Witnesses:

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ALTA B. GARROTT.