

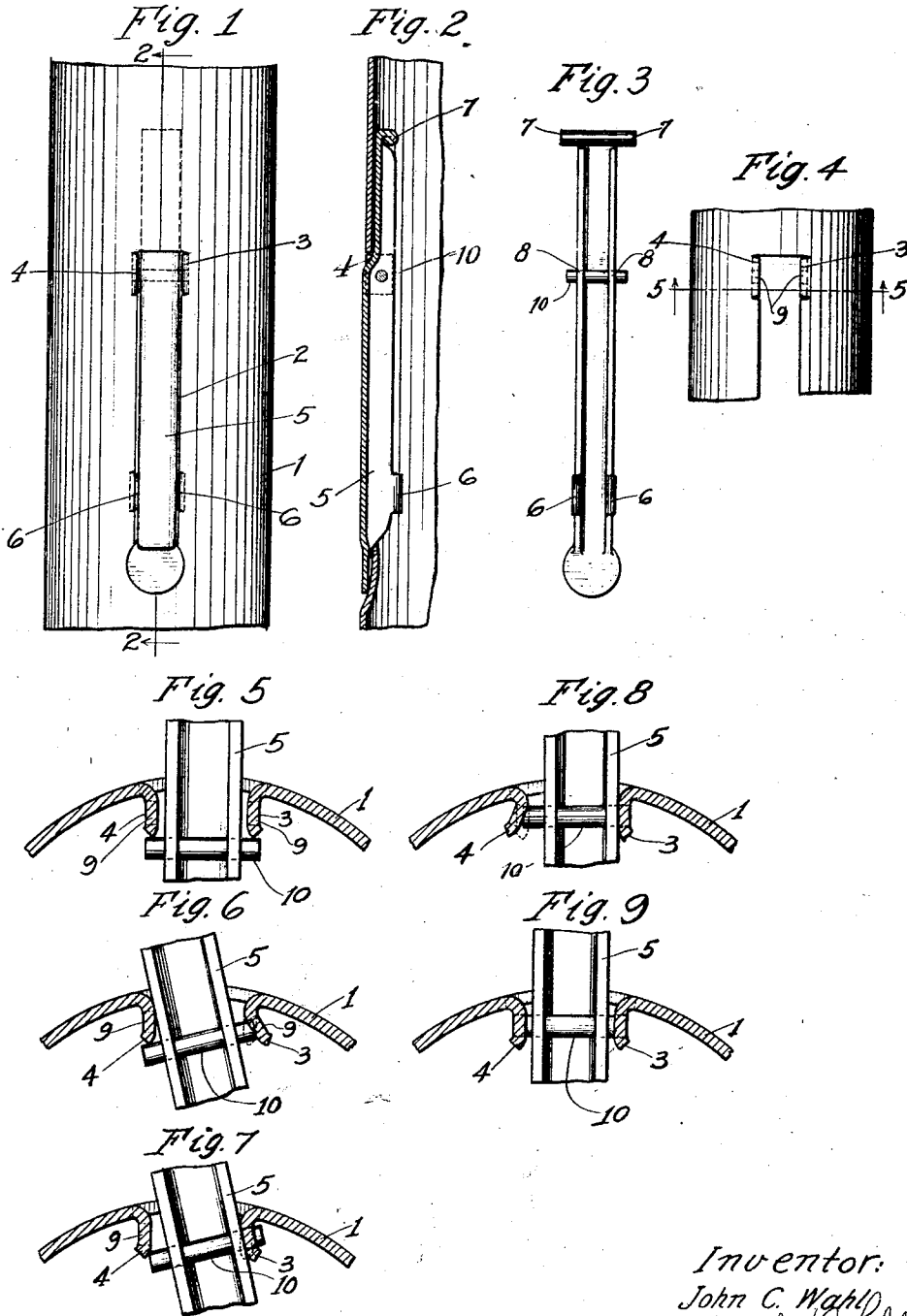
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J. C. WAHL

FOUNTAIN PEN

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UNITED STATES PATENT OFFICE.

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FOUNTAIN PEN.

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To all whom it may concern:

Be it known that I, JOHN C. WAHL, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Fountain Pens, of which the following is a specification.

My invention relates to an improved lever for fountain pens and has special reference to the method of mounting the improved lever within the pen barrel.

An object of my invention is the novel and simple manner in which the lever is detachably affixed to the outer casing of a fountain pen.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed and will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Fig. 1 is a fragmentary view of a fountain pen barrel showing a lever in closed position,

Fig. 2 is a longitudinal sectional view on the line 2—2 of Fig. 1,

Fig. 3 is a bottom plan view of the lever,

Fig. 4 is a fragmentary longitudinal view of the pen barrel showing the inturned flanges in the slot,

Fig. 5 is a cross sectional view on the line 5—5 of Fig. 4 showing a lever inserted in the slot preparatory to being attached to the barrel.

Figs. 6, 7 and 8 are cross sectional views of Fig. 4 illustrating the successive stages necessary to mount the lever in its proper position, and

Fig. 9 is a cross sectional view of Fig. 4 with the lever affixed thereto.

Referring to the drawings, 1 indicates a relatively thin metal barrel having a longitudinal slot 2 stamped therein. In stamping the slot the edges at the forward end thereof are so inturned as to form flanges 3 and 4, whose function will hereinafter be described.

A lever 5 is provided having wings 6 at its outermost extremity and outwardly extending lugs 7 at its innermost extremity, the innermost extremity being that portion of the lever that extends through the slot in the barrel, and co-acts with the presser bar to depress an ink sack mounted directly

therebelow. Aligned apertures 8 are punched in the sides of the lever intermediate the lugs 7 and wings 6. Apertures 9 corresponding to the aforementioned apertures are punched in the flanges 3 and 4. A pin 10 is fixedly mounted in the lever, its ends extending through the apertures in the side walls thereof, said ends being adapted to co-operate with the apertures in the flanges 3 and 4 for fulcruming the lever in the slot in the barrel. The method for assembling is as follows:—

The lever is entered in the slot 2 of the casing or barrel 1 by being positioned at right angles to its normal positioning in the slot. The insertion of the lever in the slot in this manner is made necessary by the fact that the length of the pin 10, located in the apertures 8 in the side of the lever 5, is of a greater length than the width of the slot 2 in the barrel, thus the pin passes through the slot longitudinally to the sides thereof. When the pin has passed beyond the flanges 3 and 4 in the slot 2, the lever is then turned to its proper position within the casing as is illustrated in Fig. 5. It will be seen that the pin 10 lies immediately below the flanges 3 and 4 in the casing 2. The width of the slot in the casing or barrel 1 is a trifle greater than the width of the lever. To introduce the ends of the pin into the apertures in the flanges 3 and 4 the slight space between the sides of the lever and the sides of the slot permits the lever to be tilted laterally, causing one end of the pin to be raised upwardly and pressed against the outwardly inclined lower end of one of the flanges, and due to the resiliency of the metal from which the flange is made, it will flex outwardly until the end of the pin reaches the aperture therein, whereupon the pin engages the aperture, and the flange will spring back to its normal position as is illustrated in Fig. 7. The lever is then brought back to a vertical position, and in so doing, the other end of the pin will be pulled upwardly against the flange, which flange will be flexed outwardly from its normal position until it has reached the plane of the other end of the pin when the pin will engage the aperture in the flange as is shown in Fig. 9. When both ends of the pin 10 are engaged in the apertures in the flanges, the lever is ready for use. The extreme end of the flanges 3 and 4 are out-

turned as shown in the drawings to more easily facilitate the entry of the ends of the pin between flanges 3 and 4 in the process of lodging the ends of pin 10 in the apertures 9 in the flanges.

When the two flanges are sprung back to their original position, the pin is locked therein and the lever cannot become detached from the fountain pen.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

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

1. In a fountain pen in combination, a casing provided with a slot therein, resilient perforated lug members thereon, depending from the marginal edge thereof and fashioned with out-turned portions at their low ends, a lever, a pin, fixed transversely of the lever with its ends projecting laterally therefrom, whereby relative seating of the lever pin in the perforations in the resilient lug members directly into the barrel of the pen may be accomplished by force applied through the pin to flex the lug members until seating position is attained.

2. In a fountain pen, in combination, a casing provided with a longitudinal slot therein, resilient perforated lug members disposed at the forward end of the slot and depending within the pen casing and being a part thereof, a lever provided with a transverse pin fixed thereto and projecting therefrom adapted to be entered between the lug members against the resiliency of the lugs for seating within the perforations.

3. In a fountain pen, in combination, a casing provided with a slot therein, perforated lug members depending from the marginal edges of the slot and being a part thereof and relatively divergently spaced to provide clearance way at their lower ends to facilitate entry of pivoting members of a lever, a lever, provided with laterally projecting pivot members, including a relative length dimensioning with respect to the spacing of the lug members to facilitate entry of said pivot members between the lug members against the resilient tension of the latter to pivotal seating position therein.

4. In a fountain pen, a casing provided with a slot extending longitudinally therein, a pair of perforated oppositely spaced resilient lugs formed on the marginal edges

of said slot to extend into said casing, a lever having laterally extending pivot members adapted to be rotatably seated in the perforations of said lugs, the resiliency of said lugs permitting said pivot members to be forced into seating position in said perforations.

5. In a fountain pen, a casing provided with a longitudinal slot therein, a pair of inwardly extending perforated resilient lugs formed on the marginal edges of said slot and positioned opposite each other with their perforations in alinement, said lugs being spaced apart to receive a lever therebetween, a lever adapted to extend through said slot, a bearing extending outwardly from each side of said lever and adapted to be rotatably seated in said perforations, the inner side of the free edge of said lugs being beveled to permit said bearings to be successively forced into bearing position in said perforations against the resiliency of said lugs.

6. The method of assembling a filling lever in the casing of a fountain pen, which consists in forming a slot in the casing and resilient perforated lugs on the marginal edges of the slot, providing a lever with opposite laterally extending bearings, passing the bearings portion of the lever through the slot into the interior of the casing, tilting the lever sidewise to cause one bearing to bend the adjacent lug outwardly against its resiliency until the bearing and perforation in the lug come into registry and the pin relatively snaps into the perforation, and then moving the lever in the opposite direction until the other lugs snaps over the other bearing.

7. The method of assembling a lever in a fountain pen casing which consists in providing in said casing a slot with marginal resilient perforated lugs, then providing a lever with laterally projecting bearings, passing said lever through said slot and then tilting said lever first in one direction and then back to force said bearings into the perforations respectively against the resiliency of the lugs.

8. The method of assembling a lever having laterally extending bearings, in a fountain pen casing having a slot provided with inwardly extending perforated resilient marginal lugs, which consists in passing the lever into the slot, and then forcing the bearings past the marginal edge portion of the lugs against the resiliency of the latter until the bearings and perforated lugs respectively snap into seating position.

In witness whereof, I have hereunto subscribed my name.

JOHN C. WAHL.