

H. CATUCCI.
SELF FILLING FOUNTAIN PEN.
APPLICATION FILED MAY 17, 1919.

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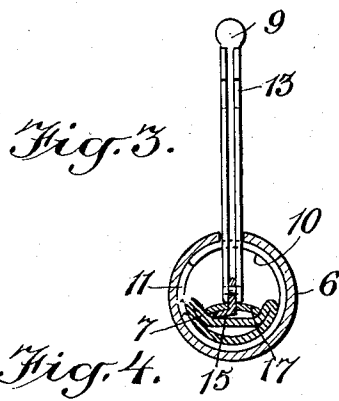
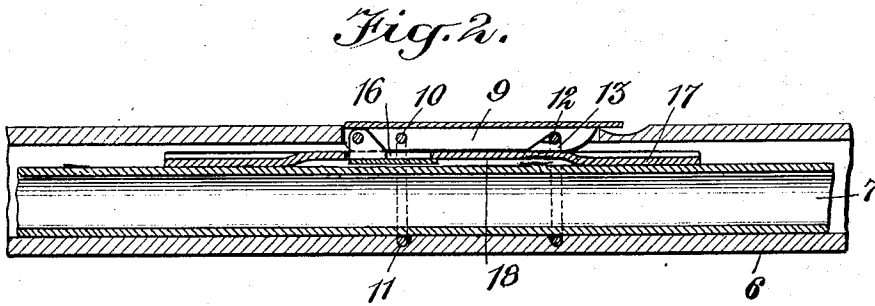
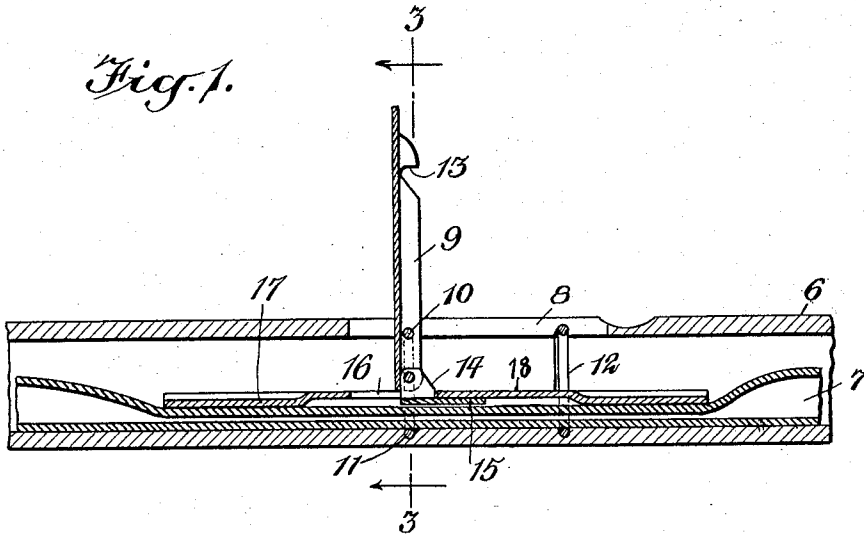
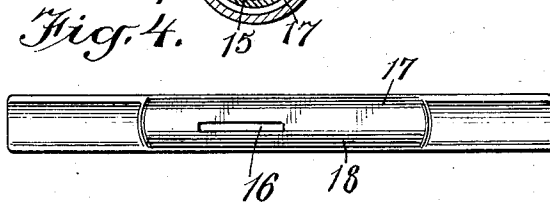
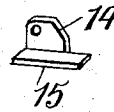


Fig. 5.



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UNITED STATES PATENT OFFICE.

HOMER CATUCCI, OF NEW YORK, N. Y., ASSIGNOR TO MABIE, TODD & CO., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

SELF-FILLING FOUNTAIN-PEN.

1,321,188.

Specification of Letters Patent.

Patented Nov. 11, 1919.

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To all whom it may concern:

Be it known that I, HOMER CATUCCI, a citizen of the United States, a resident of the city of New York, county and State of New York, have discovered a new and industrially-useful Self-Filling Fountain-Pen, of which the following is a specification.

My invention relates to fountain-pen fillers of the type which constitute an elastic ink sack adapted to substantially fill the barrel of the pen, and means for compressing the sack to expel the air before the nib end of the pen is inserted into the ink. In fillers of this type pressing means are utilized which include a presser bar lying within the barrel and adapted to be moved against the sack by means which are accessible from the outside of the barrel.

In pens of this type it is necessary to provide means for preventing the presser bar from moving longitudinally within the barrel when the same is moved to and from the sack, and this feature forms the subject of my invention and is characterized by the provision of a slide interposed between the presser bar and the operating lever and which slide also forms the necessary connection between the presser bar and the operating lever.

An illustrative embodiment of my invention is shown in the accompanying drawings in which—

Figure 1 is a longitudinal sectional view of a fragment of the barrel of a fountain-pen equipped with a device embodying my invention, the parts being shown in position when emptying or filling the elastic sack.

Fig. 2 is a similar section showing the operating parts in normal or rest position.

Fig. 3 is a cross-section on line 3—3 Fig. 1.

Fig. 4 is a top plan view of the presser bar, and

Fig. 5 is a perspective view of the slide.

Referring to the drawings in which the reference numbers indicate the same or corresponding parts in all the figures, and wherein 6 is the barrel which accommodates an elastic sack 7. The barrel 6 has an elongated slot 8 which is adapted to house the operating lever 9. The lever 9 is pivotally mounted between the ends by means of a yielding ring 10 housed within an inner annular groove 11 formed in the barrel.

The lever when moved into the slot 8 is retained by a yielding catch 12 disposed to engage the notch 13 in the lever.

The lever 9 is connected pivotally to the rising lug 14 of a slide 15. The lug 14 projects through an elongated slot 16 of the presser bar 17. The presser bar has a raised portion 18 to house the slide 15 therein so that the same does not come in contact with the sack. The slot 16 is sufficiently long to allow the lug 14 to move therein when the presser bar is raised or lowered by the movement of the lever 9. The end of the lever 9 is rounded so as to bear against the presser bar as will be seen from Figs. 1, 2 and 3, thereby preventing the lug 14 from moving up and down within the slot 16 when the presser bar is actuated.

It will be noted that the connection between the lever slide and presser bar is such that whenever pressure is to be applied to the sack, the work is done directly by the lever acting against the presser bar, as will be seen from Figs. 1 and 3. The slide prevents the lever from carrying the presser bar therewith and it supplies pressure to the presser bar. The lever 9 is of channeled shape to accommodate the lug 14 of the slide and thereby reduce the clearance between the presser bar and the lever when the same are in collapsed or rest position.

I claim:

1. In a self-filling fountain-pen a presser bar, an operating lever and a member mounted to slide in the presser bar longitudinally of the bar and connected pivotally to the lever.

2. In a self-filling fountain-pen a presser bar having an elongated slot, a slide having a lug projecting through the slot and adapted to move longitudinally of the presser bar and an operating lever connected pivotally to the lug.

3. In a self-filling fountain-pen, a barrel, a presser bar in the barrel, an operating lever pivotally connected to the barrel, said presser bar having an elongated slot, and a slide having a lug projecting through the slot and connected pivotally to the operating lever.

4. In a self-filling fountain-pen a presser bar, an operating lever pivotally mounted between its ends, and a member slidably mounted in the presser bar and pivotally connected to one end of the lever.

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5 5. In a self-filling fountain-pen a barrel, a presser bar in the barrel, an operating lever pivotally connected to the barrel, and a member pivotally connected to the lever and mounted to slide in the presser bar.

6. In a self-filling fountain-pen a presser bar having a raised portion between the ends, said presser bar having an elongated slot in said raised portion, a member

adapted to be located in the raised portion 10 of the presser bar, said member having a lug projecting through the slot so that the said member is free to slide relatively to the presser bar, and an operating lever pivotally 15 mounted between the ends and having one of its ends pivotally connected to the lug of the member.

HOMER CATUCCI.