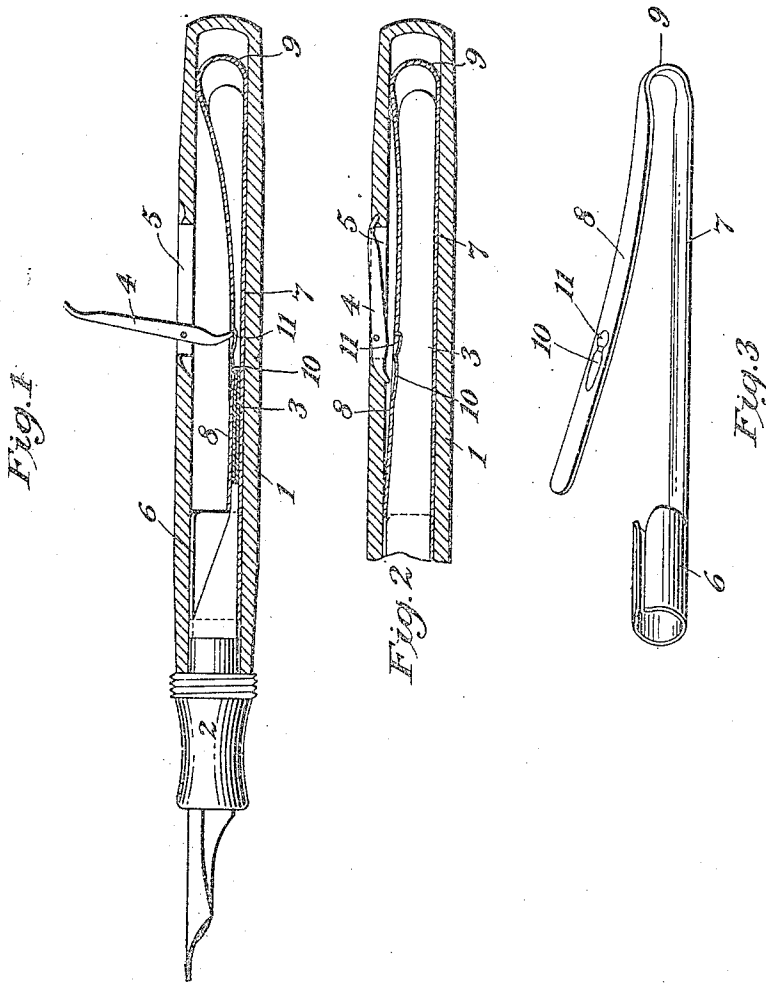


M. E. HEILBRUN.
 FOUNTAIN PEN.
 APPLICATION FILED FEB. 23, 1917.

1,231,256.

Patented June 26, 1917.



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UNITED STATES PATENT OFFICE.

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FOUNTAIN-PEN.

1,231,256.

Specification of Letters Patent. Patented June 26, 1917.

Application filed February 23, 1917. Serial No. 150,297.

To all whom it may concern:

Be it known that I, MONROE E. HEILBRUN, a citizen of the United States, residing at the city, county, and State of New York, have invented certain new and useful Improvements in Fountain-Pens, of which the following is a specification.

My invention relates to fountain pens of the so-called self-filling type. Such pens are generally provided with a collapsible ink sack and a lever actuated presser-bar for compressing the sack.

This invention is concerned particularly with improvements in the construction of the compression device.

The principal objects of my improvement are to provide a compression device of inexpensive construction which is simple and effective in action; and to provide a construction made entirely of a single piece of material having a rigid and a spring portion between which the sack lies and by which it may be compressed when desired.

I attain the objects specified, as well as others not specifically stated, by means of the construction and arrangement of parts hereinafter described and particularly pointed out in the claims.

In the accompanying drawings illustrating a preferred embodiment of the improvement, Figure 1 is a vertical section, on an enlarged scale, of a fountain pen showing the sack compressed, Fig. 2 is a fragmentary section of the barrel showing the parts in normal position, and Fig. 3 is a perspective view of the compression device.

Referring to the drawings 1 designates a tubular barrel, 2 a pen section, 3 a resilient and collapsible ink sack fitted on the pen section and 4 a lever pivoted in a longitudinal slot 5 in the wall of the barrel. The parts specified are all old in the art and may be of any ordinary or approved construction.

The compression device to which this invention particularly relates is preferably made of a single piece or strip of spring metal or other suitable material. The strip is formed with a collar 6 of a size to fit tightly into the bore of the barrel, an arm 7 extending rigidly under the sack, an arm 8 extending above the sack and constituting the presser-bar of the device, and a connecting portion 9 bent in U-shape to form a spring for the presser-bar 8, and

preferably reduced in width to increase the resiliency. The arms 7 and 8 are preferably curved in cross section to conform to the curvature of the inner surface of the barrel.

In assembling the pen, the bar is inserted into the barrel with the presser-bar 8 in alinement with the slot 5, the free end of said arm extending forwardly a substantial distance beyond its point of contact with the foot of the lever 4; the collar 6 serving to maintain or anchor the bar in proper position in the barrel. It is apparent that when the lever is moved to an upright position, as shown in Fig. 1, the sack will be firmly compressed or squeezed between the lower, rigid, arm 7 and the upper, spring, arm or presser bar 8 of the device. Now, as the lever is returned to its initial position, the presser-bar 8 will spring upward and the resilient sack will expand thereby drawing in a charge of ink.

According to my invention, whereby the sack is squeezed or compressed in a positive manner between two arms of the device, I am enabled to obtain a more effective compression of the sack and thereby to obtain a greater suction and a more complete filling of the pen than heretofore.

Recesses or depressions 10 and 11, having a hump or ridge between them are formed in the presser-bar 8 to guide and limit the movement of the lever. As the lever is being raised its foot rides in and is guided by the recess 10 and then over the hump into the recess 11, which acts as a stop and indicates the position of maximum depression of the presser-bar 8. When on the return movement, the lever is disengaged from the recess 11, the spring action of the presser-bar will drive the lever back to its initial position. Various modifications may be made in the device as hereinabove described without departing from the scope of the invention as defined in the claims.

What I claim as my invention and desire to secure by Letters Patent is:

1. In a self-filling fountain pen the combination with a barrel having a longitudinal slot, a lever pivoted in the slot, a pen section, and a collapsible ink sack, of a compression device formed of a strip of spring metal bent intermediate its ends and provided with anchoring means, one arm of the device lying under the sack and the other

above the sack and in line with the slot, the free end of the upper arm extending forwardly a substantial distance beyond the point of contact with the lever, whereby, upon moving the lever to upright position, said upper arm will be depressed to compress the sack between it and the lower arm.

2. In a self-filling fountain pen the combination with a barrel having a longitudinal slot, a lever pivoted in the slot, a pen section, and a collapsible ink sack fitted to the

pen section, of a compression device made of a single piece of material having a collar which fits tightly into the barrel, an arm extending from the collar and lying under the sack, an arm extending above the sack in line with the slot, said upper arm having recesses for guiding and limiting the movement of the lever, and a bent connecting portion forming a spring support for the upper arm.

MONROE E. HENLBRUN.