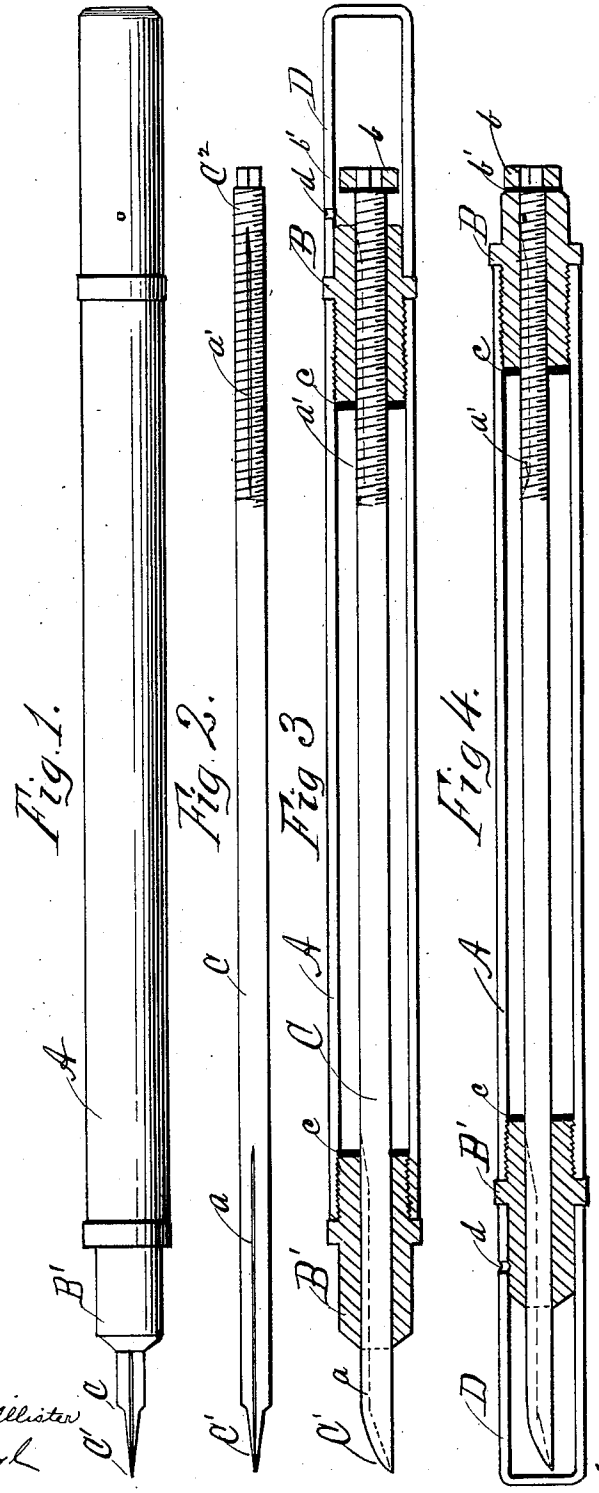
(No Model.)

F. J. PRIBYL.

FOUNTAIN PEN.

No. 589,368. Patented Aug. 31, 1897.



Witnesses:
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UNITED STATES PATENT OFFICE.

FRANCIS J. PRIBYL, OF HAZLETON, PENNSYLVANIA.

FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 589,368, dated August 31, 1897.

Application filed February 2, 1895. Serial No. 537,130. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS J. PRIBYL, a citizen of the United States, and a resident of Hazleton, county of Luzerne, and State of Pennsylvania, have invented a certain new and useful Fountain-Pen, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar letters of reference indicate corresponding parts in all the figures.

This invention relates to a fountain-pen, and has for its object to provide a simple, durable, readily-constructed, and perfectly-operating device by means of which the flow of ink through the pen may be immediately adjusted or regulated, and further provide means whereby a single turn will increase or decrease the diameter of the ink-outlet and simultaneously and correspondingly increase or decrease or close the air-inlet while the ink-outlet is still slightly open.

The invention consists in the novel construction and arrangement of parts whereby the above-mentioned and other desirable results are attained and hereinafter fully described.

Referring to the drawings, Figure 1 represents the pencil-pen ready for use. Fig. 2 shows a view of the pencil-pen and ink and air-feed device. Fig. 3 shows a sectional view of the pencil-pen. Fig. 4 shows the pencil-pen closed.

In the practice of my invention I construct the pencil-pen of a hollow tubular body A, with plugs B B′ screwed in either end thereof, and extending longitudinally through said body I insert the pencil-pen and feed-rod C.

The forward end of the feed-rod C projects through the plug B′ and is pointed to form the pen C′, as indicated in the drawings. The end of rod C′ is flattened to produce sharp edges upon the groove *a* for about one-fourth of an inch back from the point, and the line of these edges running back from the point of the pen is made slightly oval, especially near the point. This rod, and especially the point C′, is manufactured from non-corrodible metal or other such like substance. Throughout this portion of the rod, in the under surface thereof, I form a longitudinal slot or groove *a*, increasing slightly in width and diminishing as it enters the tube.

The opposite or rear end of the rod C^2 is exteriorly screw-threaded, the plug B through which it extends being correspondingly attached to receive the same, and upon the extreme end of said rod I secure a turning head or disk *b*, upon the inner face of which is secured a washer *b*′. In this threaded portion C^2 of the rod C, I form a longitudinal slot or groove *a*′, increasing slightly in depth from the outer end inwardly to within the hollow part of the tube A.

Upon the inner face of each of the plugs B B′, I secure rubber washers *c*, and I also provide the usual cylindrical cap D, provided with the air inlet or aperture *d*.

The principle of this invention is to allow the flow of ink by gravity unimpeded by air-pressure but regulating the quantity of the flow by the size of slot-opening, while the air-pressure may also be utilized.

I operate my invention thus: Having screwed the ring *b* close upon plug B, I unscrew plug B′ and fill the tube A with ink and close the tube again. A few turns of ring *b* to the left draws the ink-feeding slot *a* within the tube and allows the ink to flow to point C′. Another turn of the ring *b* to the left and the air-slot *a*′ admits air into tube A to facilitate or increase the flow of fluid. When I have finished using the pencil-pen, I screw the ring *b* fast upon the plug B′, by which operation the rod C is projected forward and the grooves entering the plugs protected by rubber washers are perfectly closed, and then I put the cap D over the end of tube B′ and slip the pencil-pen into my pocket without fear of soiling the pocket. By this arrangement, as indicated herein and accompanying drawings, I secure a simple and durable writing implement which writes with ink same as a pencil if held straight up or with the slot outward. Turning the slot downward or to the right it writes and shades like an ordinary pen. According as it is held in the hand horizontally or obliquely and with the point turned outward or inward it will form hair-lines or heavy lines even one-fourth of an inch wide. It may be used as a drawing-pen or marking-brush, as the flow of ink can be regulated for rapid or slow use by turning the ring *b* to the left or right. It is also proof against all leakage when not in use,

while the flow of ink is immediate when in use, and the flow is perfectly under the control of the writer.

What I claim as new in this my invention, and especially ask Letters Patent for, is—

1. A fountain-pen composed of a non-corrodible rod, or strong wire, passing through a tube plugged at each end, and having at both ends a tapering longitudinal groove, one for the outflow of writing fluid and the other for admission of air, and means for projecting and retracting said rod to simultaneously expose greater or less portion of said grooves or wholly closing same, substantially as set forth.

2. A fountain-pen comprising a tubular body, a rod extending longitudinally therethrough, threaded upon its rear end and adapted to be turned to project or retract the same, a groove in the forward end of said rod, increased in size from the inner end thereof outwardly for the outflow of the fluid, and a corresponding groove in the rear end of the rod increasing from the outer end inwardly for the admission of air, whereby the inward movement of the forward end of the rod creates a greater or less outlet for the fluid, and similarly actuates the opposite groove for the inlet of air, substantially as set forth.

3. A fountain-pen comprising a tubular body, having plugs secured in either end thereof, a rod extending longitudinally through said body, screw-threaded at the rear and working in the rear plug, the forward end of said rod having a pen thereon with the point in the periphery of the rod, the slot running through the rod narrowing down to same, the sharp edges of the slot running diametrically and longitudinally in slightly oval line to opposite side of the point three-eighths of an inch, more or less, and then extending through the rod into the tube, increasing in depth and diameter from the inner end outwardly; and the rear end of said rod having a corresponding groove therein increasing slightly in depth from the outer end inwardly, and a head secured upon the rear end of said rod to turn the same, and having a washer upon the inner face thereof to seal the pen when said rod is turned to close the grooves, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 31st day of January, 1895.

FRANCIS J. PRIBYL.

Witnesses:
JOHN F. PRIBYL,
ARCHIBALD T. MCALLISTER.