

F. M. KEGRIZE.
FOUNTAIN PEN.

APPLICATION FILED DEC. 9, 1902.

NO MODEL.

FIG. 1.

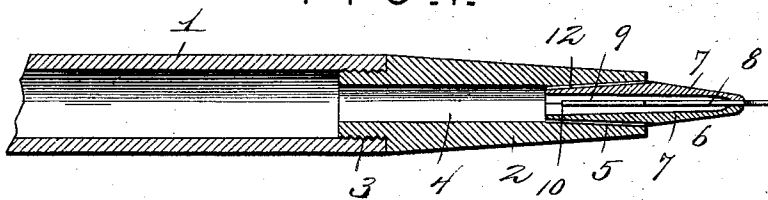


FIG. 2.

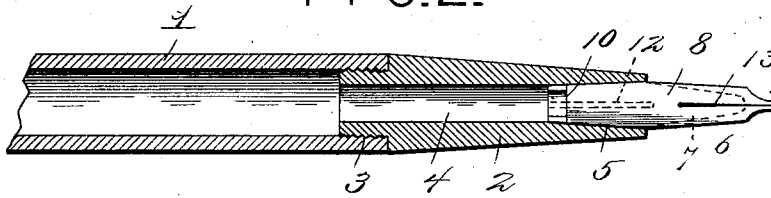


FIG. 3.

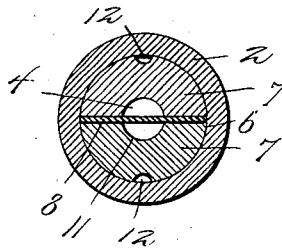


FIG. 4.

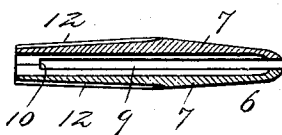


FIG. 5.

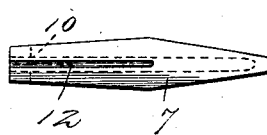


FIG. 7.

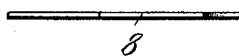


FIG. 8.

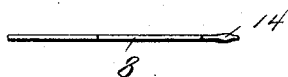
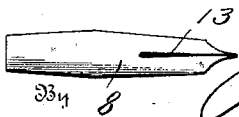


FIG. 6.



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Witnesses

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UNITED STATES PATENT OFFICE.

FRANK M. KEGRIZE, OF PHILADELPHIA, PENNSYLVANIA.

FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 734,563, dated July 28, 1903.

Application filed December 9, 1902. Serial No. 134,514. (No model.)

To all whom it may concern:

Be it known that I, FRANK M. KEGRIZE, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Fountain-Pen, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to fountain-pens, the principal object of the invention being to provide a pen of the class referred to which is always ready for use and which may be reversed or used either side up, the ink being supplied simultaneously to both sides of the pen-point, provision being also made at the same time whereby air is admitted to the pen-reservoir at either or both sides of the pen-point to insure the proper flow of ink.

A further object of the invention is to construct the pen holder or clamp in such manner that the proper positioning of the pen-point therein will be insured, the placing of the holder or clamp in the body of the pen made easier and more reliable, and the cost of the pen as a whole reduced to a minimum.

With the above and other objects in view, the nature of which will more fully appear as the description proceeds, the invention consists in the novel construction, combination, and arrangement of parts, as hereinafter fully described, illustrated, and claimed.

In the accompanying drawings, Figure 1 is a central longitudinal section through a fountain-pen constructed in accordance with this invention, said view being taken at right angles to the plane of the pen-point. Fig. 2 is a similar section taken at right angles to Fig. 1 and omitting one of the pen holder or clamp sections. Fig. 3 is an enlarged cross-section taken through the end portion of the pen. Fig. 4 is a detail longitudinal section through the pen holder or clamp sections. Fig. 5 is a plan view of one of the pen holder or clamp sections. Fig. 6 is a plan view of the pen-point. Figs. 7 and 8 are edge views of the pen-point, Fig. 8 illustrating a slight modification of the construction shown in Fig. 7.

Like reference-numerals designate corresponding parts in all the figures of the drawings.

Referring to the drawings, the pen is seen

to comprise the usual barrel-shaped body or reservoir 1, having a tapering end portion 2, which is made removable from the main body or reservoir by a screw-thread joint, (shown at 3.)

In carrying out the present invention the bore 4 of the end portion 2 is enlarged or made flaring outwardly, as shown at 5, adjacent to the extremity of said end portion in order to adapt it to receive with a wedging fit the tapering inner portion of the pen holder or clamp 6.

The pen holder or clamp 6 is preferably composed of twin sections 7, which taper reversely from about the center in opposite directions, as best illustrated in Figs. 1 and 4, the taper of the inner portions of the sections corresponding with the flare of the outer portion of the bore 4, so that when the sections are pushed into the end of the body they will be held frictionally after the manner of a wedge and will at the same time securely clamp the pen-point 8 between them.

In order to receive and hold the pen-point 8, the parts 7 of the pen holder or clamp are recessed, as shown at 9, to provide a space equal to the thickness of the pen-point, shoulders or stops 10 being at the same time formed at the rear ends of the sections 7 to limit the backward movement or insertion of the pen-point, thus permitting the proper amount of the pen-point to project beyond the outer end of the holder or clamp.

Each section 7 is also provided interiorly with a longitudinal groove 11, which forms the ink-duct, the latter extending from the inner end of the holder or clamp nearly to the outer extremity thereof, as shown in Figs. 1 and 4. Each section is further provided exteriorly with a relatively small groove 12, which forms the air-duct, said groove extending from the inner end of the holder or clamp to a point slightly beyond the center, or, more accurately speaking, beyond the end of the body of the pen when the holder or clamp is in its inserted position, thus permitting air to pass into the reservoir to take the place of the ink flowing therefrom.

The pen-point 8 is perfectly flat, being clamped or otherwise cut from sheet metal of the requisite thickness. The pen-point is preferably provided with an ink-holding re-

cess 13, while the point or nib may be enlarged or thickened, as shown at 14 in Fig. 8, or left the same thickness of the body of the pen-point, as shown in Fig. 7.

5 From the foregoing description it will be understood that ink is supplied automatically to both sides of the pen-point and that air may enter the reservoir also at both sides
10 of the pen-point. Therefore it matters not which side of the pen-point is used in writing, thus enabling the device to be used either side up. This feature is of special value to rapid writers, who are compelled to frequently lay down and take up the pen. It will also
15 be observed that the pen is extremely simple to repair and clean, it only being necessary to apply sufficient pulling force to the sectional holder or clamp to withdraw the same from the end portion of the body or reservoir,
20 whereupon the sections of the holder and the pen-point may be disassociated. In reassembling the parts the pen-point is inserted between the sections of the holder or clamp until its rear end abuts against the shoulders 10.
25 The holder or clamp as a whole is then, together with the pen-point, inserted in the body or reservoir and pressed inward with sufficient force to enable the holder to be held within the flaring part of the end portion of
30 the body frictionally or with a wedging fit. The holder or clamp sections are thus caused to bind against the pen-point on opposite sides and securely hold the latter in proper position.

35 Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. A fountain-pen comprising a body, a sectional pen holder or clamp seated with a
40 wedging fit in the end of the body, and a pen-point held between the sections of the holder or clamp.

2. A fountain-pen comprising a body, a sectional pen holder or clamp having a tapering

rear end portion seated with a wedging fit in 45 the end of the body, and a pen-point held between the sections of the holder or clamp.

3. A fountain-pen comprising a body having a tapering and outwardly-flaring seat, a sectional pen holder or clamp having a tapering 50 rear portion held with a wedging fit in the tapering seat, and a pen-point held between the sections of the holder or clamp.

4. A fountain-pen comprising a body, a sectional pen holder or clamp seated with a 55 wedging fit in the end of the body and provided with oppositely-located ink-ducts, and also having a pen-point recess terminating at the rear in a shoulder, and a pen-point held between the sections of the holder or clamp. 60

5. A fountain-pen comprising a body having a tapering and outwardly-flaring seat, a pen holder or clamp consisting of sections the inner portions of which are tapered adapting 65 them to be inserted with a wedging fit in the tapering seat, each section being provided with ink and air ducts, a pen-point held between the sections of the holder or clamp, and oppositely-located shoulders on said sections for limiting the insertion of the pen-point. 70

6. In a fountain-pen, a holder or clamp for the pen-point having means for conducting ink simultaneously to both sides of the pen-point and also means for admitting air at both 75 sides of the pen-point.

7. In a fountain-pen, a flat pen-point, in combination with a pen holder or clamp constructed to supply ink to both sides of the pen-point and also to admit air at both sides of the pen-point whereby the pen-point may 80 be used either side up, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK M. KEGRIZE.

Witnesses:

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