

(No Model.)

P. FARWELL.
FEED BAR FOR FOUNTAIN PENS.

No. 540,017.

Patented May 28, 1895.

Fig. 1.

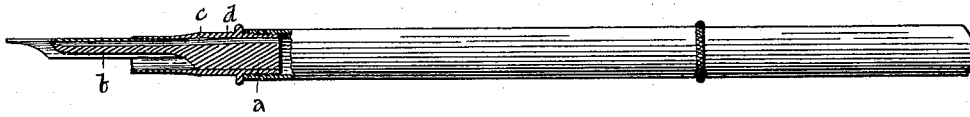


Fig. 2.

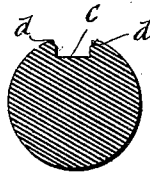
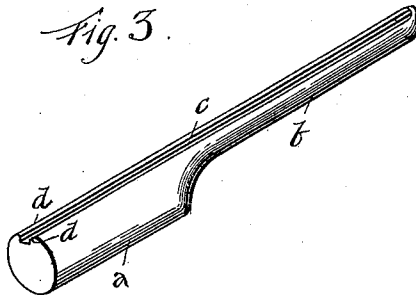


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

PULASKI FARWELL, OF FREDERICK, ILLINOIS.

FEED-BAR FOR FOUNTAIN-PENS.

SPECIFICATION forming part of Letters Patent No. 540,017, dated May 28, 1895.

Application filed September 5, 1894. Serial No. 522,197. (No model.)

To all whom it may concern:

Be it known that I, PULASKI FARWELL, a citizen of the United States, and a resident of Frederick, in the county of Schuyler and State of Illinois, have invented certain new and useful Improvements in Feed-Bars for Fountain-Pens; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a partial central longitudinal section of a pen, showing invention applied. Fig. 2 is a cross-section of invention. Fig. 3 is a perspective view of same.

The object of this invention is to provide a feed bar for fountain pens by means of which a more even flow of ink is secured, which will not clog up, thereby enabling a poorer quality of ink to be used in the pen, and which can be readily cleaned.

With this object in view the invention consists in the novel construction and combination of parts, all as hereinafter described, and pointed out in the appended claims.

By reference to the accompanying drawings it will appear that the invention more particularly consists in the provision of a feed bar, having a plug *a*, which fits the case or holder of the pen, and a reduced feed extension *b*. Formed in one side of said bar is a longitudinal open or surface duct, or channel, having a substantially flat bottom wall, and side walls which are parallel with each other for a portion of their height, but whose upper portions are beveled outwardly and upwardly, forming inclined surfaces *d, d*, which in use are adjacent to the wall of the case or holder and to the pen, and form therewith lateral ink conduits, which are independent of the body of the duct which serves as the air duct only. The shape of the duct is uniform throughout its length. I find in practice that the construction prevents clogging or stoppage of the ink, rendering the flow more even and regular, and permitting the use in the pen of an inferior quality of ink if necessary or desired. The construction also presents no places for the catching and reception of sediment, and the bar can be thoroughly cleaned by merely wiping with a piece of paper or cloth.

In the drawings I have shown the bevels *d, d*, as extending about to one half the depth of the channel or duct, such being the usual arrangement. I do not, however, limit myself to any precise point on the walls of the duct at which the bevels shall commence.

I am aware that it is common to provide a feed bar for fountain pens with ink conduits of various forms, and that in some of these bars the lateral walls of the groove forming such conduits meet the pen at an acute angle; but these lateral walls have been continuous, that is to say, there has been no line of positive separation between the ink and air conducting portions of the conduit. The present invention is distinguished therefrom in the fact that the beveled surfaces *d, d* form ink conducting surfaces which are independent of the body of the channel, which is found to produce a much more even and regular feed, as the air enters the ink chamber without in any way obstructing the outward flow of the ink.

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

1. As a new article of manufacture, the herein described improved feed bar for fountain pens, consisting of a plug portion *a*, and a reduced feed extension *b*, said plug portion and extension having therein a longitudinal open or surface duct or channel, whose side walls are parallel for a portion of their height, but whose upper portions are beveled outwardly and upwardly, forming inclined surfaces, which when the bar is in use, constitute ink conducting surfaces, independent of the body of the channel, which serves as the air duct, substantially as specified.

2. A feed bar for fountain pens, having a single open channel therein, said channel having lateral walls which are parallel for a portion of their height, but whose upper portions are outwardly beveled to form ink conducting surfaces independent of the body of the channel, substantially as specified.

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

PULASKI FARWELL.

Witnesses:

GEO. BRINGNORD,
W. M. GRIMWOOD.