(No Model.)

J. T. WILCOX.

FOUNTAIN PEN.

No. 420,504. Patented Feb. 4, 1890.

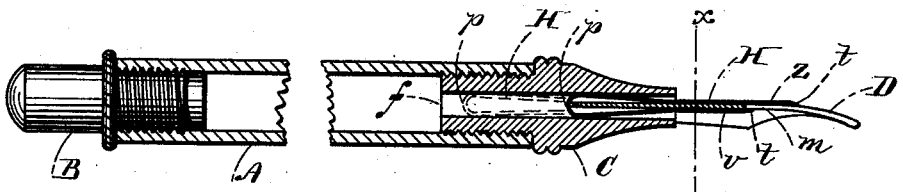

Fig. 1.

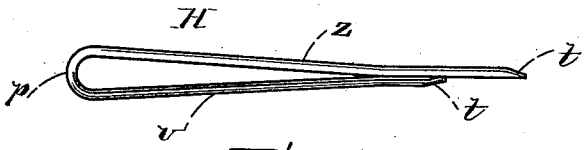

Fig. 2.

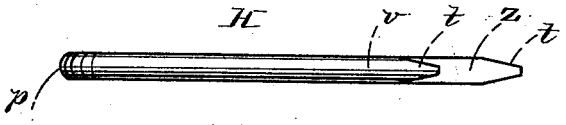

Fig. 3.

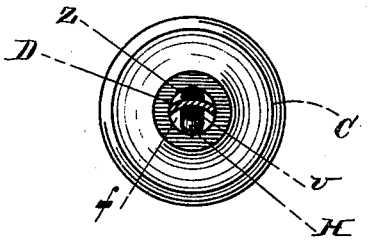

Fig. 4.

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UNITED STATES PATENT OFFICE.

JOHN T. WILCOX, OF LEOMINSTER, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO ALBERT W. WILLIAMS, OF SAME PLACE.

FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 420,504, dated February 4, 1890.

Application filed August 14, 1889. Serial No. 320,721. (No model.)

To all whom it may concern:

Be it known that I, JOHN T. WILCOX, of Leominster, in the county of Worcester, State of Massachusetts, have invented a certain new and useful Improvement in Fountain-Pens, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical longitudinal section of my improved pen; Figs. 2 and 3, respectively, a side elevation and under side plan of the feed removed; and Fig. 4, a sectional elevation taken on line *x x* in Fig. 1.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates especially to an improved feed for fountain-pens; and it consists in certain novel features hereinafter fully set forth and claimed, the object being to produce a simpler, cheaper, and more effective device of this character than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation.

In the drawings, A represents the body or reservoir of the pen; B, the head or plug; C, the pen-piece, and D the pen. The body is cylindrical and is screw-threaded at one end to receive the plug B. The opposite end is interiorly screw-threaded in the ordinary manner to receive a threaded pen-piece C. The pen-piece is provided centrally with a longitudinal duct *f* of the same diameter throughout.

The pen D may be of any ordinary construction and of a size to fit tightly into the mouth of the duct, as best shown in Fig. 4.

The feed H consists of a strip of hard rubber or similar elastic material, preferably semi-cylindrical in cross-section, said strip being bent into U shape, with its curved surface outward, one arm *v* being shorter than the companion arm *z*. The ends of said arms are rounded or pointed at *t*, and the feed is so constructed that when detached from the pen the free end of the arm *v* engages the arm *z*, as shown in Fig. 2. The pen is disposed between the feed-arms, as shown in Fig. 1, the short arm *v* engaging the under side of the pen with its point *t* at the inner end of the pen-slot *m*. The pen and its feed-strip may now be readily adjusted in the mouth of the duct *f*. The feed being semi-cylindrical and of less diameter than the duct, a space for the flow of ink is left at either side of said feed, as shown in Fig. 4.

In Fig. 1 the inner end of the pen is shown as engaging the curved end *p* of the feed; but said feed may be constructed of such length that it will project nearly to the inner end of the duct *f*, as represented by dotted lines in said figure.

By the use of my improvement the ink follows the feed-arms *v z* from the reservoir and supplies the pen with an under and upper feed at the same time. The curved end *p* of the feed-strip extending across the duct serves as a check to prevent the ink from flowing too freely.

The elastic nature of the material and the peculiar formation of the feed cause it to bind closely onto the pen and prevent it from readily becoming displaced.

It will be seen that by this arrangement the pen and feed can easily be removed for cleaning, and replaced at slight cost when broken.

Having thus explained my invention, what I claim is—

1. A feed for fountain-pens comprising a U-shaped rod semicircular in cross-section and having arms of unequal length, substantially as described.

2. A feed for fountain-pens formed from a single strip of hard rubber bent into U shape and having arms of unequal length, the shorter arm being normally in engagement with the companion arm, substantially as described.

JOHN T. WILCOX.

Witnesses:
G. F. MORSE,
A. G. MORSE.