

(No Model.)

W. F. CUSHING.
FOUNTAIN PEN.

No. 533,350.

Patented Jan. 29, 1895.

Fig. 1.

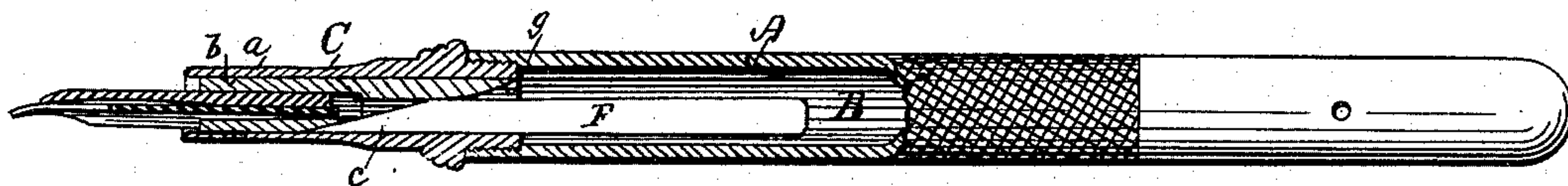


Fig. 2.

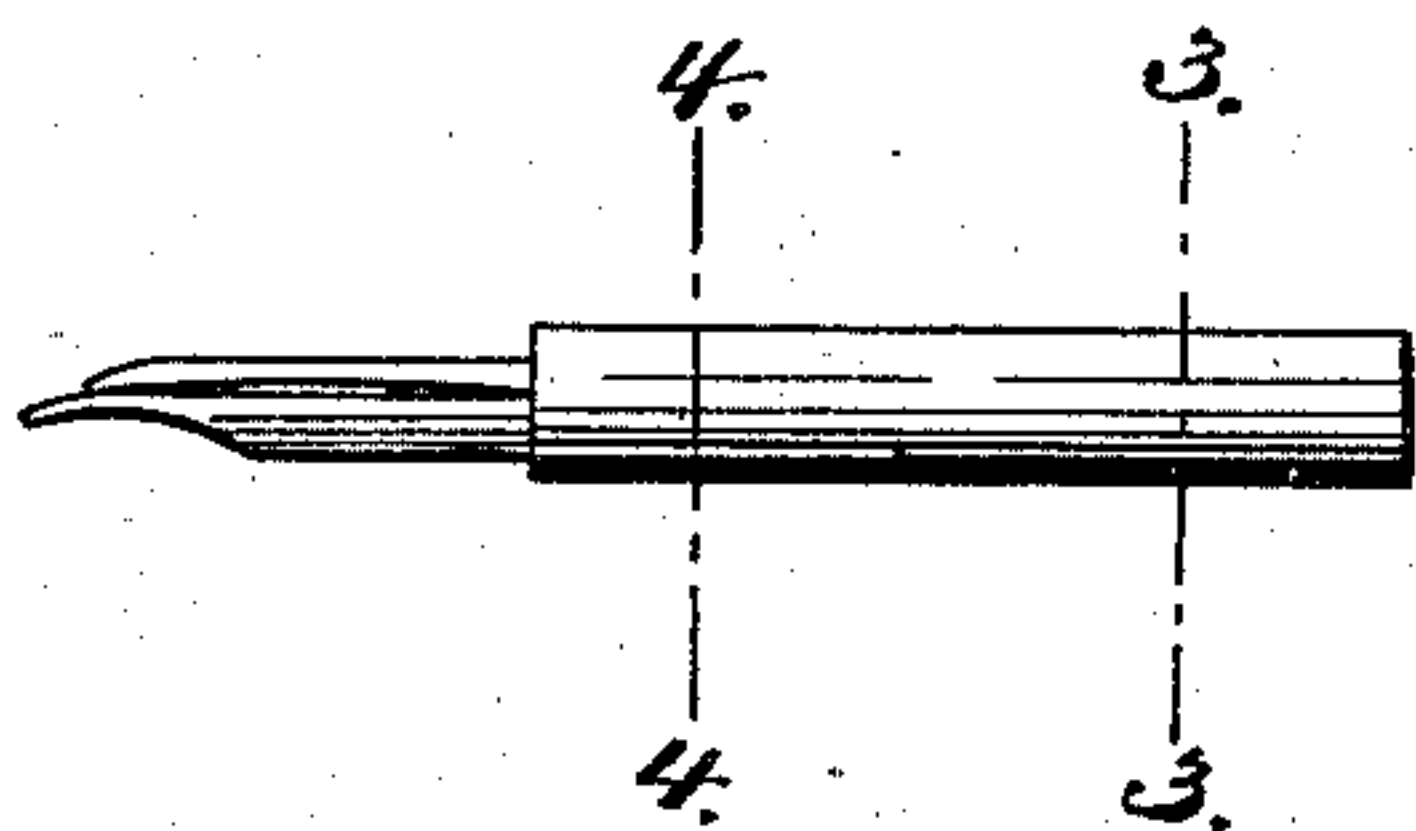


Fig. 3.



Fig. 4.



Fig. 5.

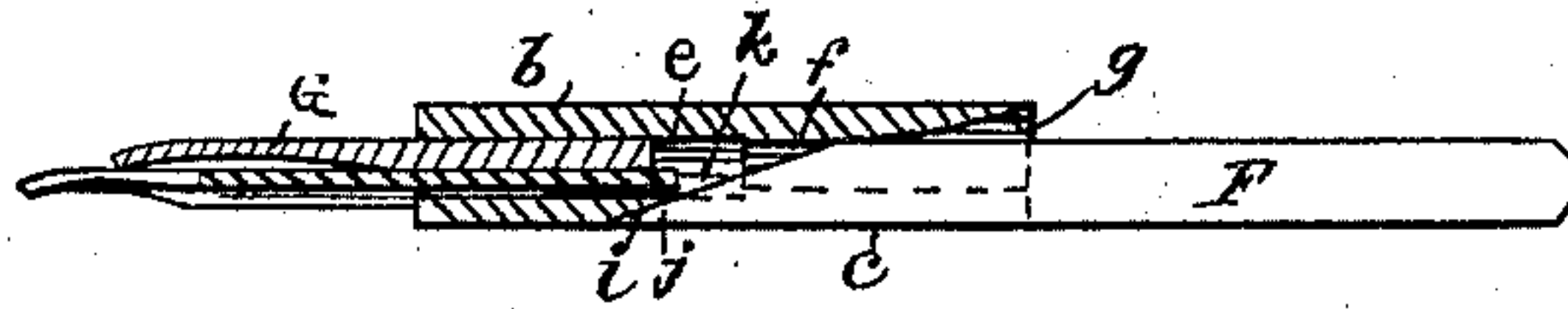


Fig. 6.



Witnesses

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UNITED STATES PATENT OFFICE.

WALTER F. CUSHING, OF MEDFORD, MASSACHUSETTS.

FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 533,350, dated January 29, 1895.

Application filed June 14, 1893. Serial No. 477,562. (No model.)

To all whom it may concern:

Be it known that I, WALTER F. CUSHING, a citizen of the United States, residing at Medford, in the county of Middlesex, State of Massachusetts, have invented a new and useful Improvement in Fountain-Pens, of which the following is a specification.

The object of my invention is to provide a fountain pen in which the ink will be fed from the reservoir with great regularity, and my invention consists in the improved construction and arrangement of the ink feeding parts of the point section, as hereinafter fully set forth.

In the accompanying drawings: Figure 1, represents a longitudinal section of a fountain pen provided with my improvement. Fig. 2, represents a side view of the inner tube of the point-section. Fig. 3, represents a transverse section taken in the line 3, 3, of Fig. 2. Fig. 4, represents a transverse section in the line 4, 4, of Fig. 2. Fig. 5, represents a longitudinal section of the inner tube removed from the outer tube of the point-section. Fig. 6, represents an edge view of the feed-bar.

In the accompanying drawings, A represents the hollow barrel, which forms the ink chamber or reservoir B, and C is the point-section, which screws into the end of the barrel A. Within the outer tube *a* of the point-section, is placed the frictionally held cylindrical tube *b*, which is provided at its outer end with longitudinal slits *d*, adapted to receive and hold the shank of the pen D, and at its inner end with a longitudinal slot *c*, extending through the wall of the inner tube *b*, from its central cavity, to the wall of the outer tube *a*; the said slot *c* being made through that side of the tube *b*, which is opposite to the under side of the pen D. The inner tube *b* is preferably made with an enlarged bore *e* at its lower portion, with a smaller bore *f* extending from about its middle, to the upper end, and at the side of the bore *f* opposite the slot *c*, is made the interior notch *g*, adapted to form an opening between the wall of the tube *b*, and the edge of the feed bar F, for the passage of the ink. The feed bar F is made of a thin strip beveled at its lower end, as shown in Fig. 5, so that when the feed bar is

forced downward into the point section C, the tube *b* will be wedged tight, the slot *c* being so made that a beveled surface *i* will be formed at the outer side of the wall of the tube *b*, to receive the tapering point *j* of the feed-bar.

The shank of the pen D, is placed in the holding slits *d*, in the sides of the inner tube *b*, which slits are inclosed by the outer tube *a*, and over the pen D, is placed the ink guide G, which extends upward into the cavity of the inner tube *b*, in which it is frictionally held, leaving a passage at each side of the guide for the downward flow of ink; and projecting outwardly over the top of the pen, to guide the downward flow of ink to the nibs, and between the upper end of the guide G, and the beveled end of the feed-bar F, is formed the small ink chamber K.

I claim as my invention—

1. In a fountain pen, the combination with the outer tube of the point section, and the cylindrical frictionally held inner tube provided at its outer end with slits adapted to receive the shank of the pen, and at its inner end with a longitudinal slot extending through the wall of the said inner tube, from its central cavity, to the wall of the said outer tube, and located at that side of the said inner tube, which is opposite the under side of the pen, of the pen, held in the slits of the inner tube, the feed bar frictionally held in the said slot of the wall of the inner tube, and the frictionally held ink-guide, extending upward into the cavity of the inner tube wherein it is frictionally held, and projecting outwardly over the top of the pen, substantially as described.

2. In a fountain-pen, the combination with the outer tube of the point section, and the inner tube slotted at its side, and beveled at its lower end of the slot, of the beveled feed-bar in the slot and adapted to tighten the inner tube within the outer tube, substantially as described.

3. In a fountain-pen, the combination with the outer tube of the point-section, and the inner tube having a bore of different diameter and slotted at one side, of the feed-bar held in the slot of the inner tube, the pen, the ink-guide above the pen, the chamber between

the end of the ink-guide, and the feed-bar, substantially as described.

4. In a fountain-pen, the combination with the outer tube of the point-section, and the
5 inner tube slotted at one side and provided with an interior notch at the other side, of the feed-bar held in the slot of the inner tube,

the pen, and the ink-guide above the pen, substantially as described.

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Witnesses:

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