

(No Model.)

C. H. COURT & A. J. KLETZKER.
FOUNTAIN PEN.

No. 300,224.

Patented June 10, 1884.

Fig: 1.

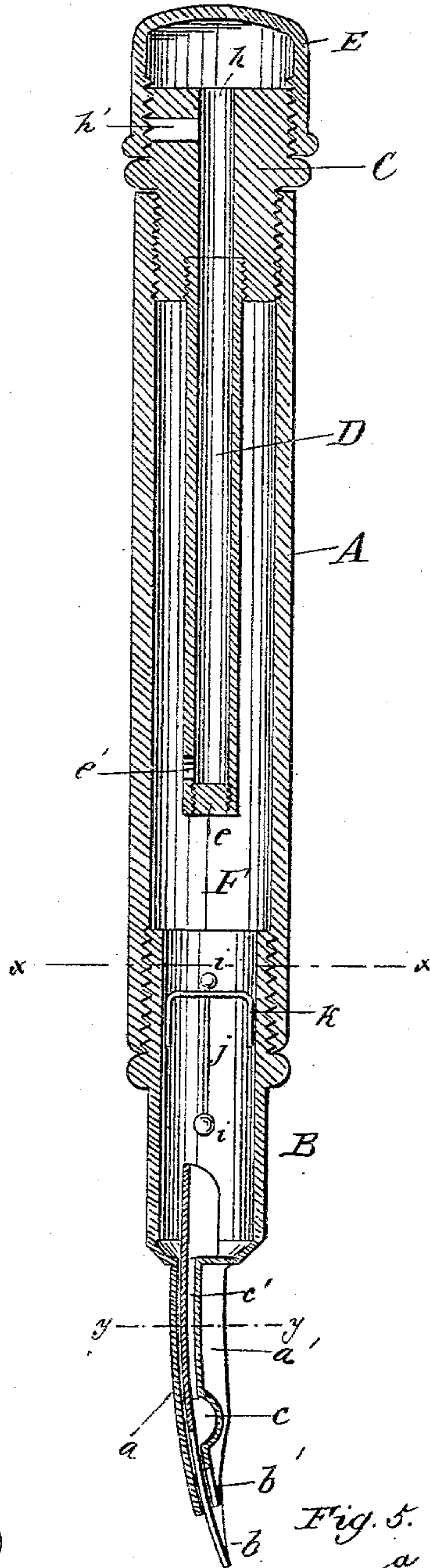


Fig: 2.

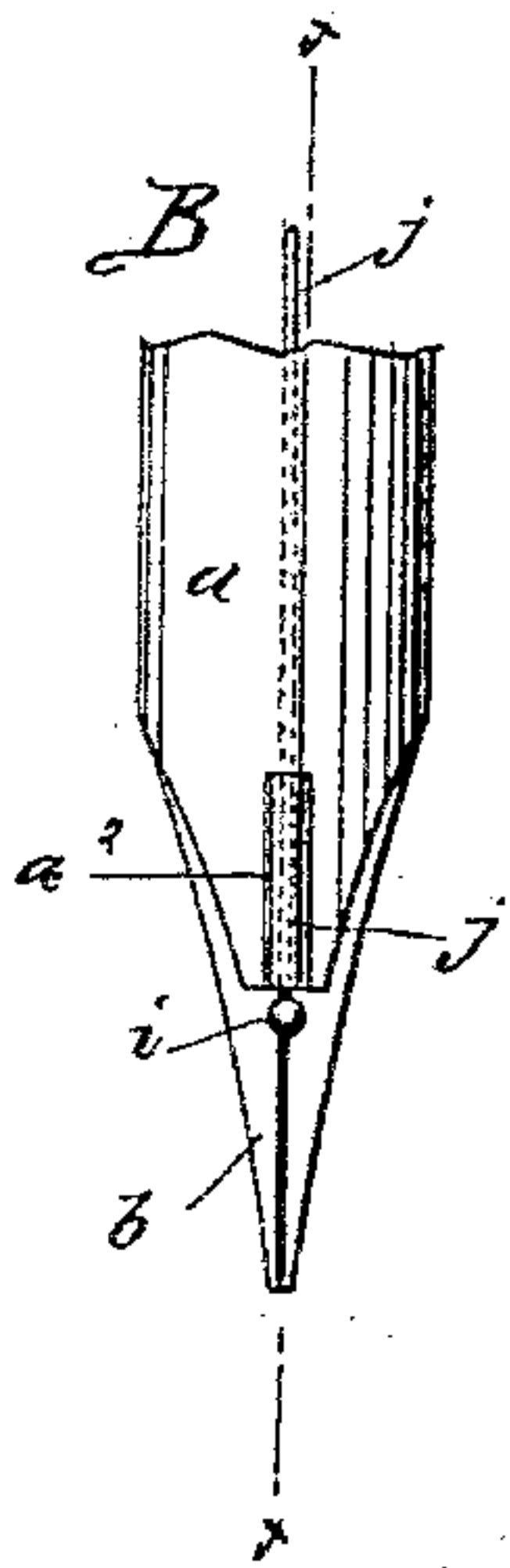


Fig: 3.

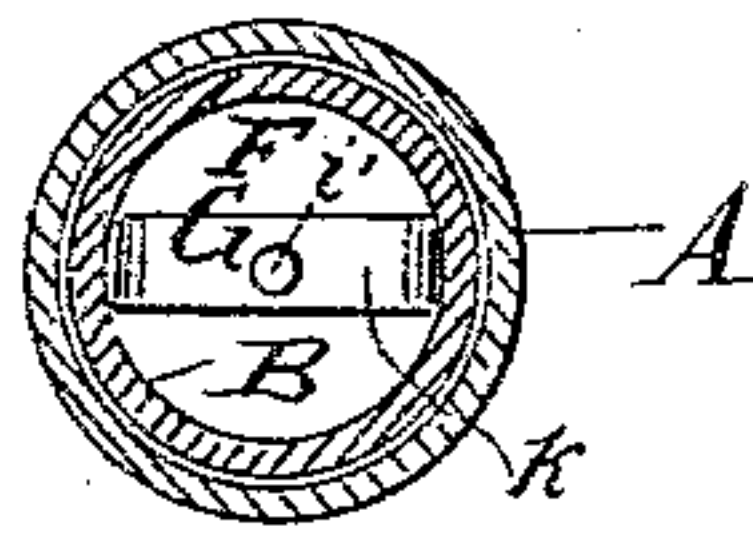


Fig: 4.

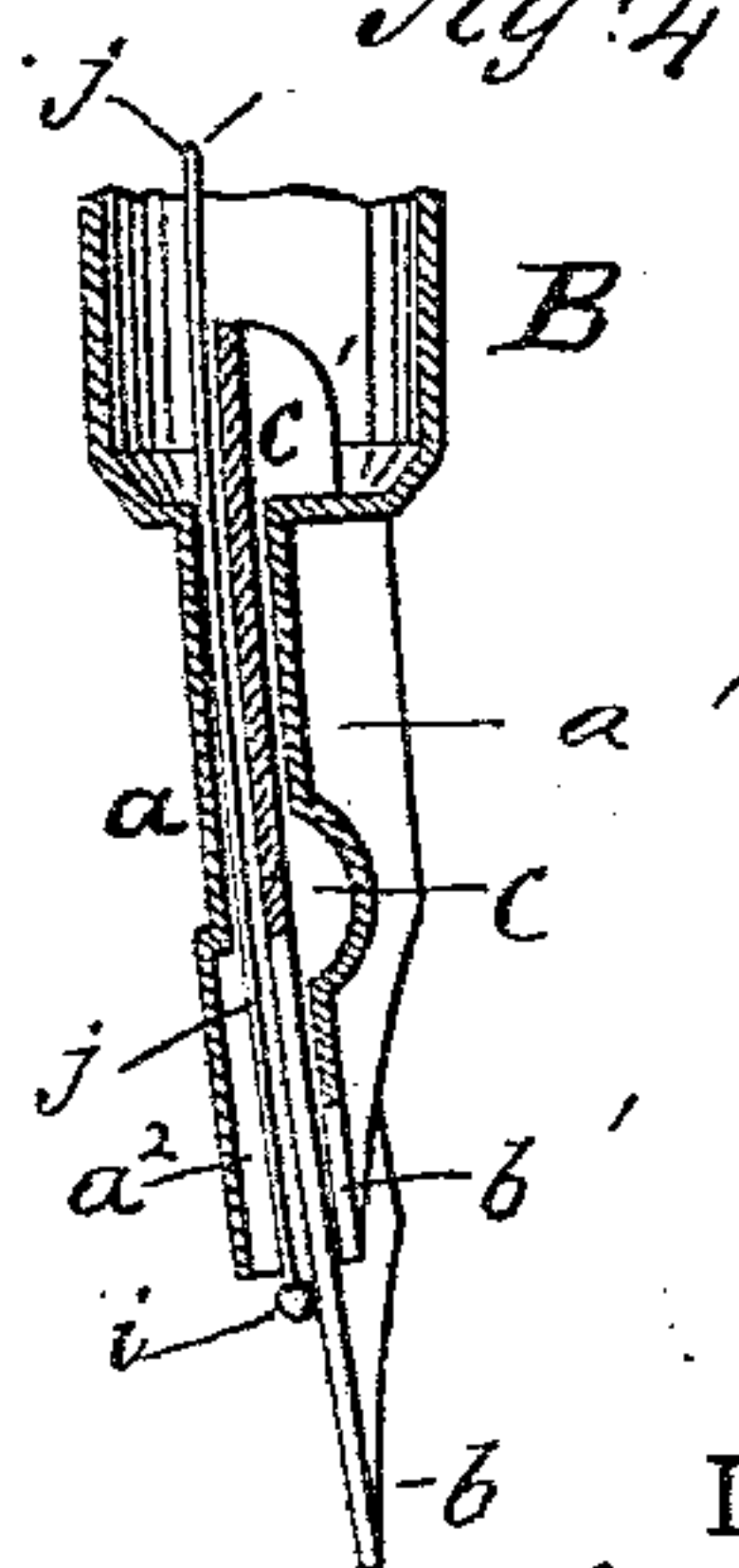


Fig: 5.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES H. COURT, OF JERSEY CITY, NEW JERSEY, AND ALBERT J. KLETZKER, OF NEW YORK, N. Y.; SAID COURT ASSIGNOR OF ONE-HALF OF HIS RIGHT TO SAID KLETZKER.

FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 300,224, dated June 10, 1884.

Application filed March 31, 1882. (No model.)

To all whom it may concern:

Be it known that we, CHARLES H. COURT, of Jersey City, in the county of Hudson and State of New Jersey, and ALBERT J. KLETZKER, of the city, county, and State of New York, have invented a new and Improved Fountain-Pen, of which the following is a full, clear, and exact description.

Our invention relates to that class of fountain-pens in which nib-pens are used, and are partly within the reservoir; and it consists, principally, of the construction, arrangement, and combination of the parts of the pen, all as hereinafter fully described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a sectional elevation of our new and improved fountain-pen. Fig. 2 is a detailed plan view of the upper surface and pen, showing the agitator. Fig. 3 is a cross-section taken on the line *xx* of Fig. 1. Fig. 4 is a sectional elevation taken on the line *xx* of Fig. 2, showing a little more of the pen-stock; and Fig. 5 is a section on line *yy* of Fig. 1.

A represents the main handle or barrel of the pen, which forms the main part of the reservoir, and is internally screw-threaded at its ends.

B represents the pen-section, which screws into one end of the handle A, and is hollow, and completes the reservoir; and C represents the plug, which screws into the other end of the handle A, and carries the tube D, and is adapted to receive the screw-cap E upon its outer end, all as clearly shown in Fig. 1. The pen-section B is first formed into a cylindrical tube. Then one side, *a'*, of the lower end is pressed in to support the under side of the pen *b'*, the other side, *a*, of the said lower end of the tube B being formed to support the upper side of the pen. The lower end of each of these supports *a a'* is shaped somewhat like a pen-point, to retain the ink far down upon the pen, and the under support, *a'*, is split a short distance, as shown at *b'*, Figs. 1 and 4. The lower face of the lower support, *a'*, is indented to form a cavity for holding a small quantity of ink, and with a longitudinal gutter or channel, *c'*, leading from said cavity to

the reservoir, for supplying the ink to the cavity and pen. The ink passes from the reservoir through the said gutter or channel *c'* to the cavity *c*, and then passes through the slots of the pen into the space between the pen and the upper surface, *a*, of the section B. A small quantity of ink being maintained in the cavity *c* insures a gradual feed, and the upper surface of the pen being always moist keeps the pen ready for instant use.

i j represent the agitator, which in Fig. 1 is shown located in the pen or point section; but it may be placed in the handle A, or it may be attached to the lower end of the detachable tube D. This agitator consists of the balls *i i* upon the ends of the wire *e j*, (or a narrow plate may be substituted for the wire,) which wire passes through a suitable perforation, *i'*, Fig. 3, in the frame or bent sheet-metal plate *k*, which bears against the side walls of the pen-section or handle portion A, as the case may be, with sufficient force to hold the agitator in place. The wire *j* is smaller than the perforation *i'* in the plate *k*, and is of considerable length, so that the agitator is adapted to have both side and longitudinal movement for keeping the ink thoroughly stirred up and always in proper condition for supplying the pen. The tube D, made detachable from the plug C, as shown, is closed at the lower end by the plug *e*, and is perforated above the plug *e* with the hole *e'*. The vertical bore of this tube D coincides with the passage *h* through the plug C, as shown. In the plug C is formed the side passage, *h'*, which intersects the passage *h*, and this passage *h'* is closed by the screw-cap E. When the cap E is unscrewed, a supply of air will pass through the passages *h'* and *h* and through the tube D and perforation *e'* into the reservoir of the pen, to fill the vacuum formed by the use of the ink.

The surface *a* at the back of the pen may be indented to form a trough extending a short distance back from the outer end, as shown at *a'*, if desired, and the support *a'* will by preference have the short slot *b'* in it.

The agitator *i j* may extend from the reservoir along the top face of the pen-point, the

groove a^2 in the support a being provided to allow one of the balls i to recede when the agitator plays longitudinally.

By this construction of the pen the same is
5 always in condition for instant use, and the feed of ink is regulated exactly in accordance with the demand—neither too rapid nor too slow—so that the pen is thus made practical for its purposes. Besides, it is cheap of construction and durable.
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Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a fountain-pen, the point-section B, having its lower end pen-shaped, and provided with the cavity c on its under side, substantially as and for the purpose set forth.
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2. In a fountain-pen, the combination, with the point-section B, constructed substantially

as herein shown and described, of the agitator $i j$, arranged in said section, and having both lateral and longitudinal movement, substantially as and for the purpose set forth. 20

3. In a fountain-pen, the combination, with the point-section B, of the plate k , provided with the aperture i' , and held in said section by its elasticity, and the rod j , provided with the balls i at its ends, substantially as and for the purpose set forth. 25

4. The combination, with the upper support, a , of the lower pen-shaped support, a' , provided with a split, b' , substantially as shown and described. 30

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Witnesses:

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