

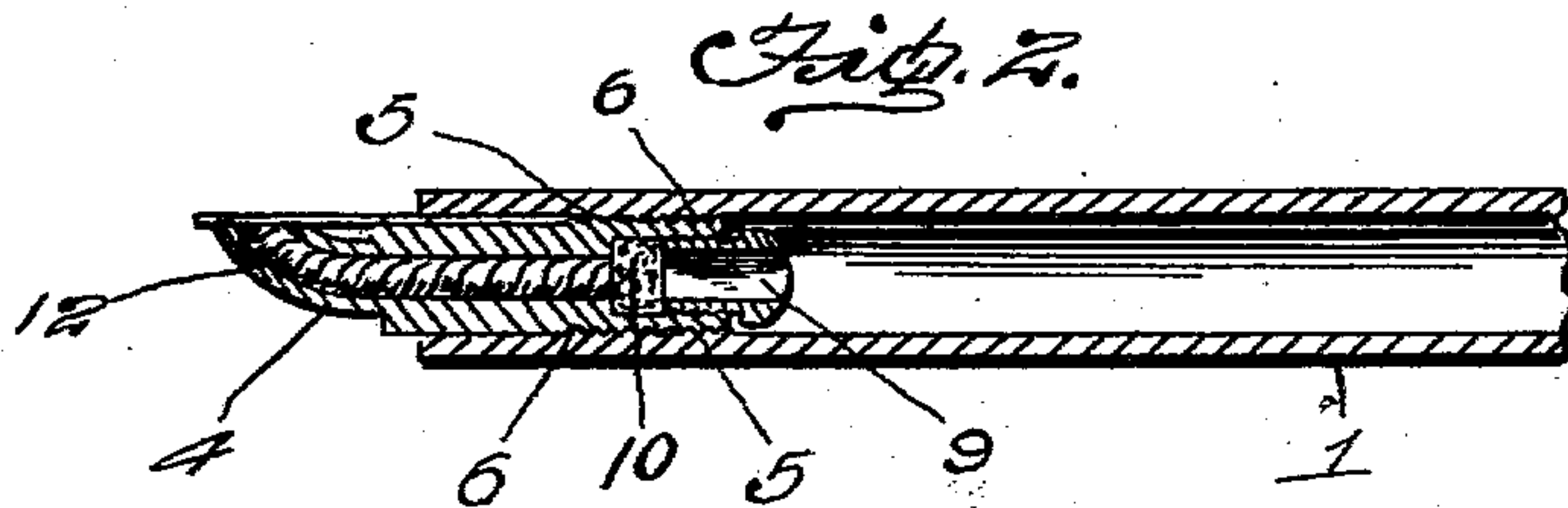
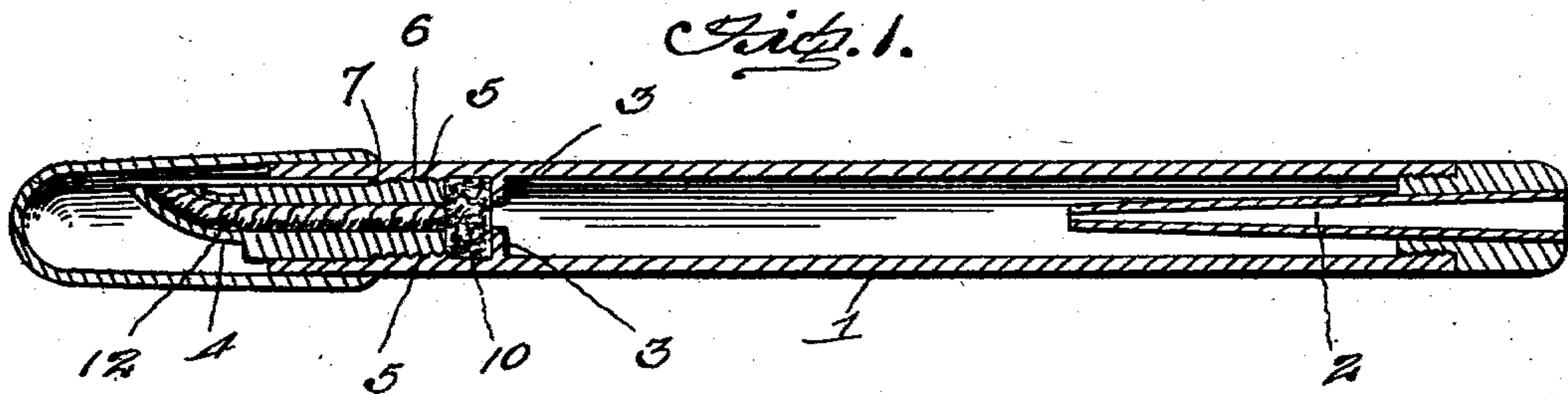
No. 715,359.

Patented Dec. 9, 1902.

R. B. DICKIE.
FOUNTAIN PEN.

(Application filed Aug. 18, 1902.)

(No Model.)



Witnesses

Jas. A. G. Wehl.

[Signature]

Inventor

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By

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Attorneys

UNITED STATES PATENT OFFICE.

ROBERT B. DICKIE, OF NORTH FREEDOM, WISCONSIN.

FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 715,359, dated December 9, 1902.

Application filed August 18, 1902. Serial No. 120,141. (No model.)

To all whom it may concern:

Be it known that I, ROBERT B. DICKIE, a citizen of the United States, residing at North Freedom, in the county of Sauk and State of Wisconsin, have invented certain new and useful Improvements in 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.

The invention relates to fountain-pens.

The object of the invention is to provide a fountain-pen which shall be simple in construction, durable in use, comparatively inexpensive of production and one that will not leak, ink the fingers, nor blot the paper, one in which any ordinary pen-point can be used, which may be replaced when worn out, one which gives a free and steady flow, which can be regulated by the user, and one that is always ready to write when touched to the paper.

With these and other objects in view the invention consists in certain novel features of construction, combination, and arrangement of parts, which will be hereinafter more fully set forth, and particularly defined in the appended claims.

In the accompanying drawings, Figure 1 is a longitudinal sectional view through a fountain-pen embodying my invention, and Fig. 2 is a modification of the means employed for regulating the flow of ink to the feed-tube.

Referring to the drawings, 1 denotes the barrel of the pen, 2 the capillary tube connected at its upper end and used for the same purpose as that set forth in my Patent No. 699,499, dated May 6, 1902, and made removable for the purpose set forth in my pending application for patent filed June 26, 1902, Serial No. 113,269. Near its lower end the barrel is provided with an interior annular shoulder or collar 3.

4 denotes the feed-tube, which is adjustably connected to the lower end of the barrel in any suitable manner, preferably formed on its upper end with a screw-thread 5, which engages a similar thread 6, formed on the interior wall of the barrel at its lower end. Confined between the upper end of the barrel and the collar or shoulder 3 is a packing of hygroscopic material 10—such, for instance,

as raw cotton or blotting-paper. By adjusting the feed-tube toward the shoulder or collar 3 the hygroscopic packing is compact or solidified, thus decreasing the flow of ink from the barrel to the feed-tube, and by adjusting the feed-tube in a direction away from said shoulder or collar the hygroscopic packing is loosened, thus permitting an increased flow of ink through the feed-tube. The feed-tube at a point below its threads is reduced in diameter to form a pen-point-receiving space or seat 7, in which is adapted to be inserted a pen, with its nibs in contact with the discharge end of the feed-tube.

Instead of employing the construction shown in Fig. 1 for regulating the flow of ink to the feed-tube I employ the construction shown in Fig. 2, which consists in forming the upper end of the feed-tube with a chamber 8, into which is screwed a hollow screw 9 for regulating the density of the hygroscopic packing 10.

12 denotes a wick located in the feed-tube and leading from the hygroscopic packing to the discharge end of the tube for the purpose of conducting the ink from the packing to the nibs of the pen-point.

From the foregoing description, taken in connection with the accompanying drawings, the construction, operation, and advantages of my invention will be readily apparent, it is thought, without requiring a more extended explanation.

Various changes in the form, proportion, and minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of my invention.

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

1. In a fountain-pen, the combination with the barrel provided with an interior annular shoulder, of a removable feed-tube, and a hygroscopic packing confined between the inner end of the feed-tube and the annular shoulder, substantially as set forth.

2. In a fountain-pen, the combination with the barrel having an interior annular shoulder, of a hygroscopic packing placed to one side of the shoulder, and a feed-tube secured within the barrel and adjustable toward and

away from the annular shoulder to clamp the hygroscopic packing, substantially as set forth.

3. In a fountain-pen, the combination with the barrel having an interior annular shoulder, of a feed-tube, a packing between the inner end of the feed-tube and the shoulder, and means for compacting the packing, substantially as set forth.

4. In a fountain-pen, the combination with the barrel having an interior annular shoulder, of a feed-tube, a packing between the inner end of the feed-tube and the shoulder, means for compacting the packing, and a wick located within the feed-tube and leading from the packing to the discharge end of said tube, substantially as set forth.

5. A fountain-pen comprising a barrel, a capillary tube located at the inner end of the barrel, an annular shoulder located within the barrel near its lower end, a feed-tube adjustably connected to the barrel below the annu-

lar shoulder, a hygroscopic packing between the inner end of the feed-tube and the annular shoulder, and a wick located within the feed-tube and extending from the hygroscopic packing to the discharge end of the feed-tube, substantially as set forth.

6. In a fountain-pen, the combination with a barrel, of a feed-tube communicating therewith, a hygroscopic packing for partially obstructing the passage of ink from the barrel to the tube, and means for varying the density of said packing to increase or diminish the flow of ink into the tube, substantially as set forth.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ROBERT B. DICKIE.

Witnesses:

S. R. POLLARD,
S. E. PEARSON.