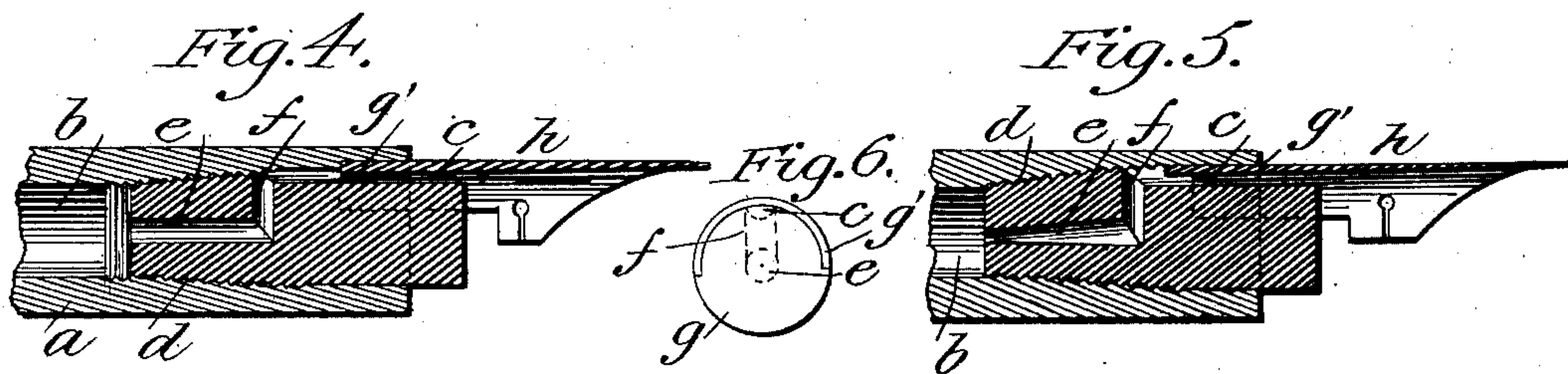
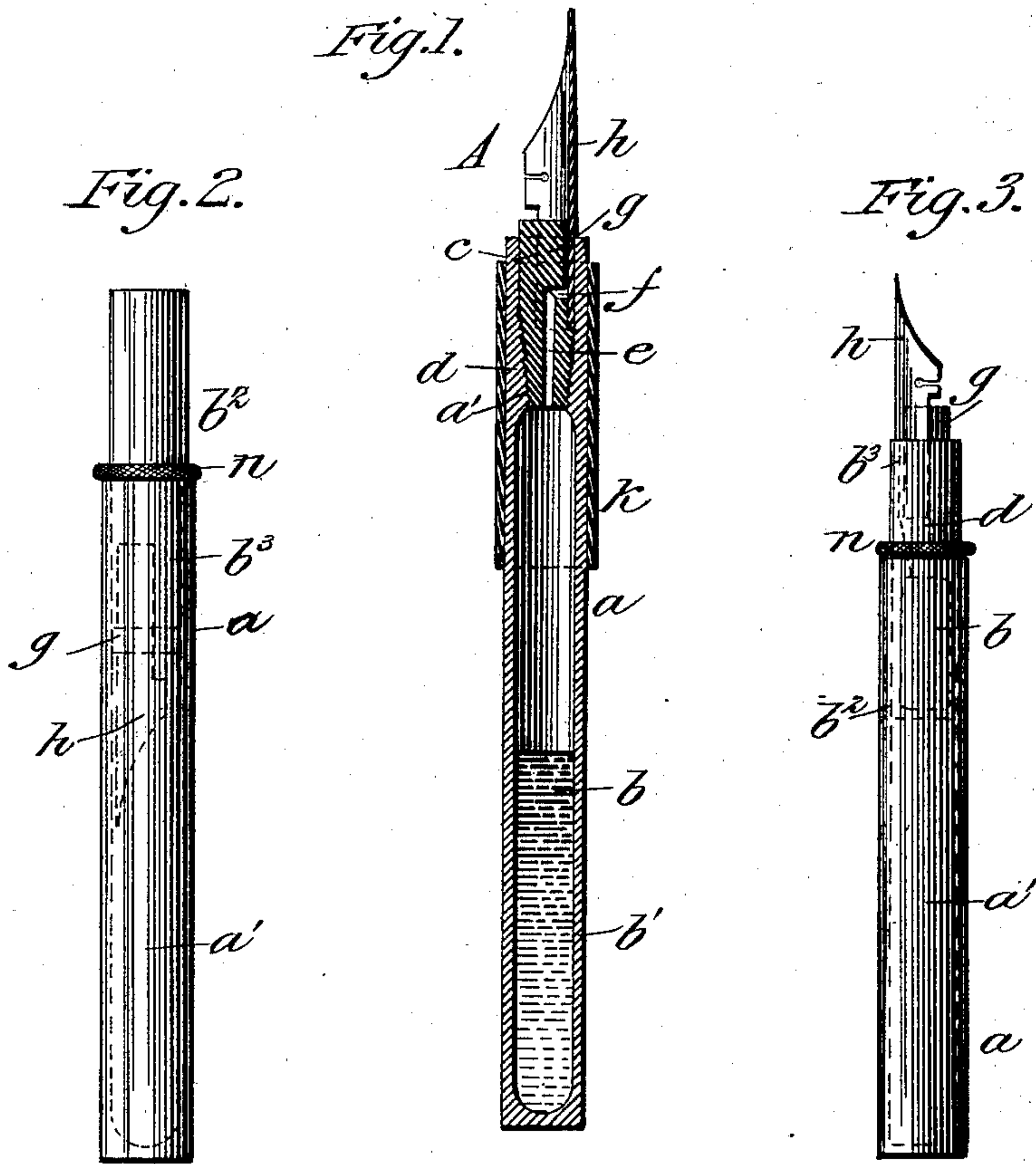


(No Model.)

A. FYFE.
FOUNTAIN PEN.

No. 367,752.

Patented Aug. 2, 1887.



Witnesses.

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UNITED STATES PATENT OFFICE.

ALEXANDER FYFE, OF PATERSON, NEW JERSEY, ASSIGNOR OF TWO-THIRDS
TO NATHAN BARNERT AND THOMAS BROMLEY, BOTH OF SAME PLACE.

FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 367,752, dated August 2, 1887.

Application filed October 9, 1886. Serial No. 215,809. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER FYFE, of Paterson, in the county of Passaic and State of New Jersey, have invented a certain 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 which will combine simplicity of construction, ease of operation, and cheapness—one holding a good supply of writing-fluid, with a flow capable of being regulated to suit the writer, and not as liable to get out of order as the fountain-pens that are now in use.

In the specification reference will be made to the accompanying drawings, which form a part thereof.

Similar letters of reference indicate like parts in the figures—1, 4, 5, and 6.

The invention consists of a tubular holder or reservoir, a plug of rubber or other suitable material to fit or screw into the same, the nib or pen, and a covering for same, constructed as hereinafter specified, and as shown in the drawings.

Figure 1 shows a section of pen; Fig. 2, an elevation of modified form closed; Fig. 3, an elevation of pen, modified form, open; Fig. 4, a part section of pen, showing the orifice in plug open; Fig. 5, a part section of pen, showing the orifice in plug partly closed; Fig. 6, a front view of plug, showing recess or depression in plug to receive the pen.

The pen completed consists of the tube or handle *a*, sliding sleeve *a'*, to cover the pen, the reservoir *b*, holding the ink *b'*, rubber plug *g*, and the nib or pen *h*.

The inner walls of the tube or handle *a* are perpendicular for a short distance from the mouth, and then begin to taper or grow less in circumference, and the taper part thus formed is provided with a screw-thread, *d'*.

The rubber plug *g* is made straight part way, as seen by *g'* in Fig. 4, to act as a guide in entering the tube *a*, and so as to fit in the straight part of the tube *a*. There is a slight depression or recess, *g'*, in the plug *g* to receive the pen *h*.

The plug *g* is made taper and provided with a screw-thread, as shown by *d* in Figs. 1, 4,

and 5; but it is not tapered as much and is not as long as the taper part of the tube *a*, which is provided with the screw-thread *d'*.

The plug *g* is provided with the channels *e* *f* and groove *c*, to allow the writing-fluid to pass from the reservoir *b* to the under surface of the pen *h*. The flow of ink from said reservoir to the pen may be regulated and stopped entirely, if necessary, by screwing the rubber plug *g* into said tube *a* until the mouth of the channel *e* is partly or entirely closed, as will be seen by comparing Figs. 4 and 5 in the drawings.

In Fig. 4 the plug *g* is not screwed in the whole way, and the passage-way *e* is wide open for the admission of ink from the reservoir *b*, and in Fig. 5 the orifice in the plug *g* is nearly closed, the plug being screwed in farther, and the flow of ink is diminished accordingly. The ink thus conducted to the pen flows naturally to the point, and may be used until the contents of the reservoir are exhausted. Fig. 6, which is a front view of the rubber plug *g*, shows a recess or slight depression to receive the pen.

g' indicates the depression, *e* the horizontal channel, *f* the vertical continuation of the ink-channel, and *c* the groove in which the ink flows to the pen *h*.

In Fig. 1 the tube *a* is shown constructed with the portion marked *k* straight, and provided with an outer covering or sliding sleeve, *a'*, which is drawn over the pen when not in use. Said sleeve may be secured in any suitable manner; but it is proposed to make the pen in another form, and secure thus, perhaps, a greater degree of convenience and usefulness.

The invention is shown in the modified pen in Figs. 2 and 3. In Fig. 2 it is closed. In Fig. 3 it is open.

In Figs. 2 and 3 letters of reference refer to similar parts.

In the modified form, *b*² is the reservoir end of pen, and *b*³ is the plug and pen end. Midway between the pen and the end of the reservoir *b*, which is indicated by the dotted line, there is the enlarged part or shoulder *n* on the holder and reservoir; but said shoulder *n* may be placed at any desirable point. *b*², the reservoir end, and *b*³, the plug and pen

end, are of the same size—that is, the reservoir and holder is the same dimension on each side of the shoulder *n*, and the sleeve or case *a'* fits on the pen and plug end *b*³ when not in use, as is shown in Fig. 2, in which the dotted lines indicate the position of the plug *g* and the pen *h*, the shoulder *n* forming a stop for the sleeve or case *a'*, and the reservoir end *b*² being exposed. In this form the pen may be carried about the person, and in order to use the pen the sleeve or case is removed from the pen end *b*³ and placed on the reservoir end *b*², as is shown in Fig. 3.

The modification consists merely in the shoulder *n* and the case or sleeve *a'*, to receive either end of the reservoir and holder.

With this description of my invention, what I claim is—

1. In a fountain-pen, a tubular ink-reservoir provided with a taper screw-thread inside at or near the mouth or entrance of tube, to receive and hold a rubber plug partly taper, on which is a screw-thread, and through which there is an opening or passage to conduct the ink from the reservoir to the pen held between

the plug and tube, all substantially as shown and specified, and for the purpose set forth.

2. In a fountain-pen, a tubular reservoir having a shoulder to act as stop for sliding cover, and the interior of which is, for a short distance from the mouth, of the same circumference, then gradually tapering for a short distance, the taper part provided with a screw-thread, in combination with a rubber plug partly straight and partly taper, having a screw-thread and a slight depression to receive broad end of gold or steel pen, said plug being provided with an opening extending from the inner end of said plug through the same and upward to the under surface of pen, the opening or passage for ink through the plug to be increased or diminished in size by screwing the plug into the tubular reservoir, all substantially as shown and specified, and for the purpose set forth.

ALEXANDER FYFE.

Witnesses:

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SAMUEL BELL.