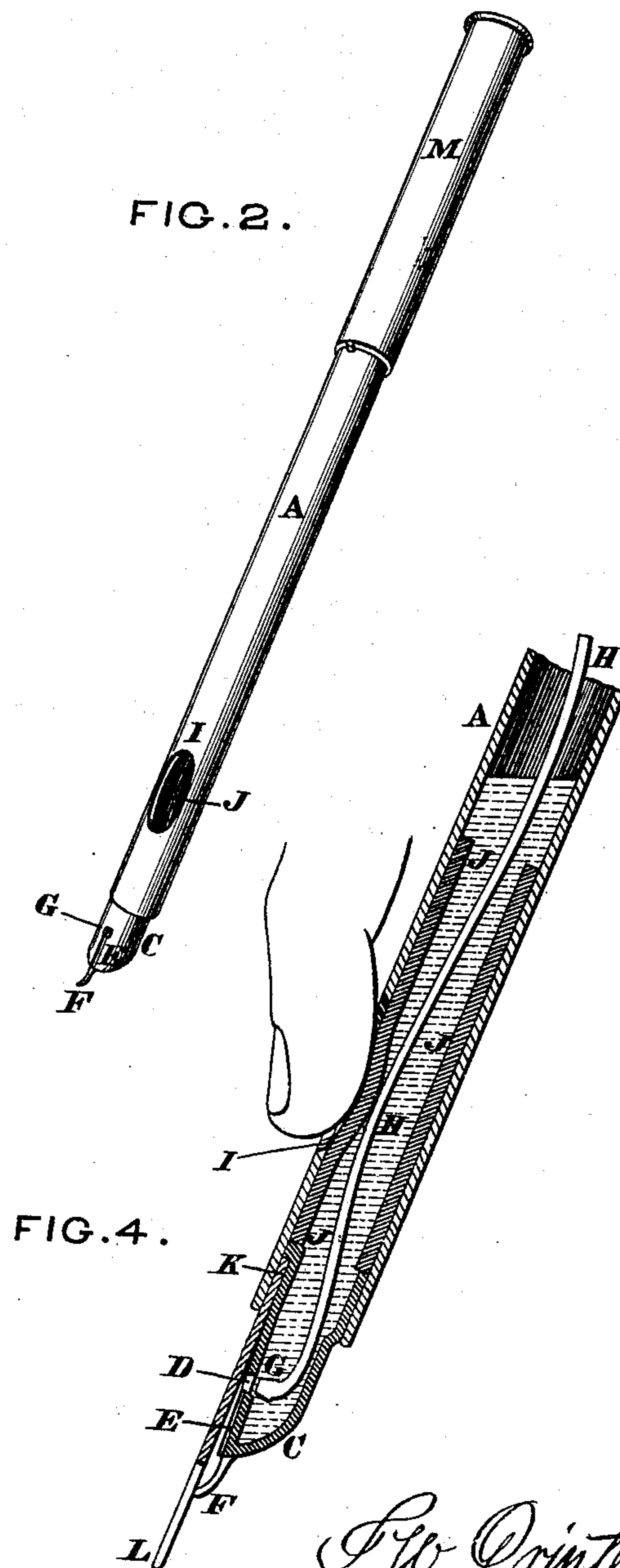
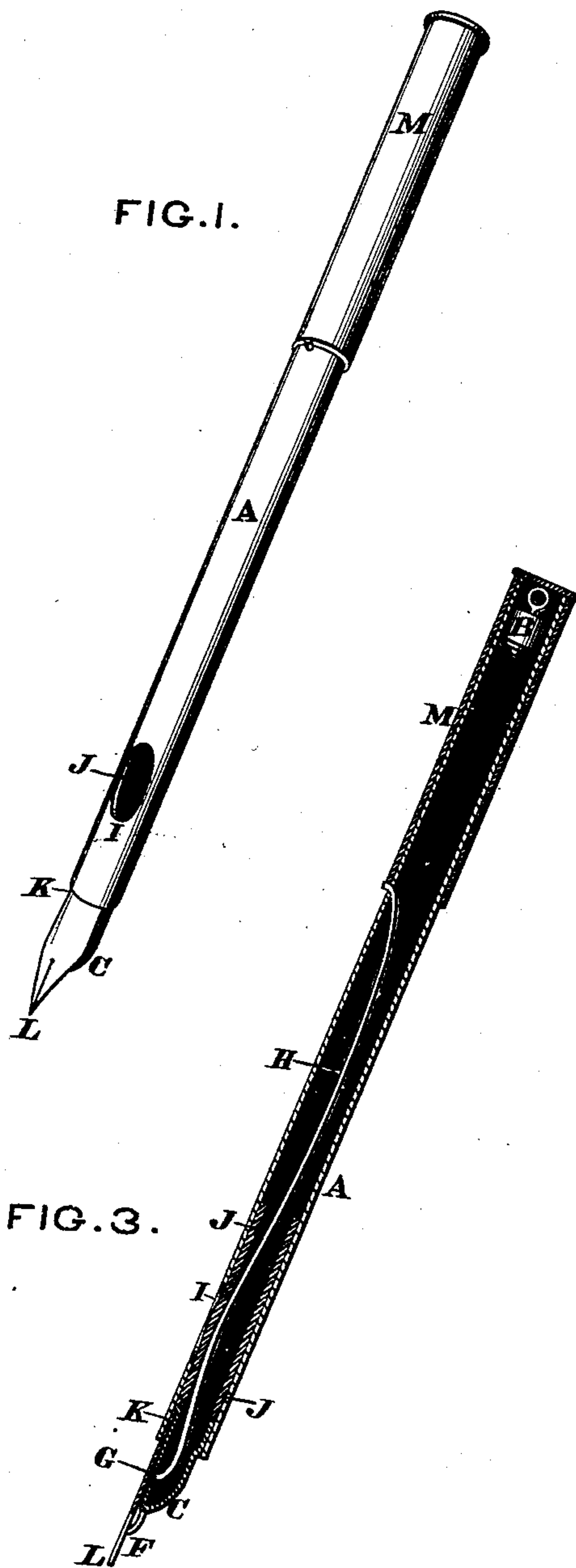


T. W. GRINTER.
FOUNTAIN PEN.

No. 103,737.

Patented May 31, 1870.



ATTEST.
Jas. H. Layman.
William Bauer.

T. W. Grinter
INVENTOR.
By Knight Bros
Attys.

United States Patent Office.

THOMAS W. GRINTER, OF RUSSELLVILLE, KENTUCKY.

Letters Patent No. 103,737, dated May 31, 1870.

IMPROVEMENT IN FOUNTAIN-PENS.

The Schedule referred to in these Letters Patent and making part of the same

I, THOMAS W. GRINTER, of Russellville, Logan county, Kentucky, have invented a new and useful Fountain Pen-Holder, of which the following is a specification.

Nature and Objects of the Invention.

The object of this invention is to enable the penman to maintain a proper supply of ink in the nib without the necessity of dipping the same in an inkstand; and

My invention consists in the application to the reservoir-handle, customarily used with fountain-pens, of a device whereby the ink is caused to flow to the nib, at the time and in the quantity desired, by the simple pressure of the user's finger.

General Description with Reference to the Drawing.

Figure 1 is a perspective view of a holder embodying my invention with the pen in position.

Figure 2 is a similar view with the pen removed.

Figure 3 is a longitudinal section through the holder.

Figure 4 is a longitudinal section through lower portion of the holder; on an enlarged scale, the reservoir being represented filled with ink, and with its delivery-valve open.

A is a tubular shaft or holder, having its upper end closed by a cap or plug, B, which is capable of ready removal when it is desired to charge the holder with ink.

The lower end of the holder is closed by an oblique end or head, C, and near the salient part of said end the side of the shaft is traversed by a minute hole, D, which constitutes the ventage for the ink.

From this hole, the side of the shaft is channeled downward, as at E, and terminates in a tongue or spur, F, which forms a continuation of said channel.

The ventage D is normally closed by a valve or

stopper, G, whose spring shank H, being attached to the interior of the shaft, holds the said valve within the hole, and prevents the escape of ink.

This shaft has, on its upper side, where the index-finger of the user comes, an opening, I, which is closed by an India-rubber tube, J, which, while permitting the depression of the shank H to open the valve G, prevents the escape of ink through said opening I.

K is a socket, of customary form, for a common nib, L.

M is a cap, which is slipped over the lower end of the holder, so as to protect the nib when not in use.

Operation.

The reservoir A, being charged with ink at its upper end, is closed by plug B. The writer then, grasping the pen in the usual manner, liberates a quantum of ink by pressing upon the rubber J, which ink flows out, through the orifice D, down the channel E and tongue F, to the concave side of the nib, near its point, and thus supersedes dipping the pen, or the necessity of an inkstand.

A pen thus constructed may be carried about in the pocket, and be ready for use at any moment.

Claim.

I claim as new and of my invention—

The tubular shaft or handle A, having an orifice, I, at the place where the fore-finger rests, closed by a rubber tube, J, in the described combination with the channel E and tongue F, and the spring or yielding valve G, closing the ink-vent D, substantially as set forth.

In testimony of which invention I hereunto set my hand.

THOS. W. GRINTER.

Witnesses:

GEO. H. KNIGHT,
JAMES H. LAYMAN.