

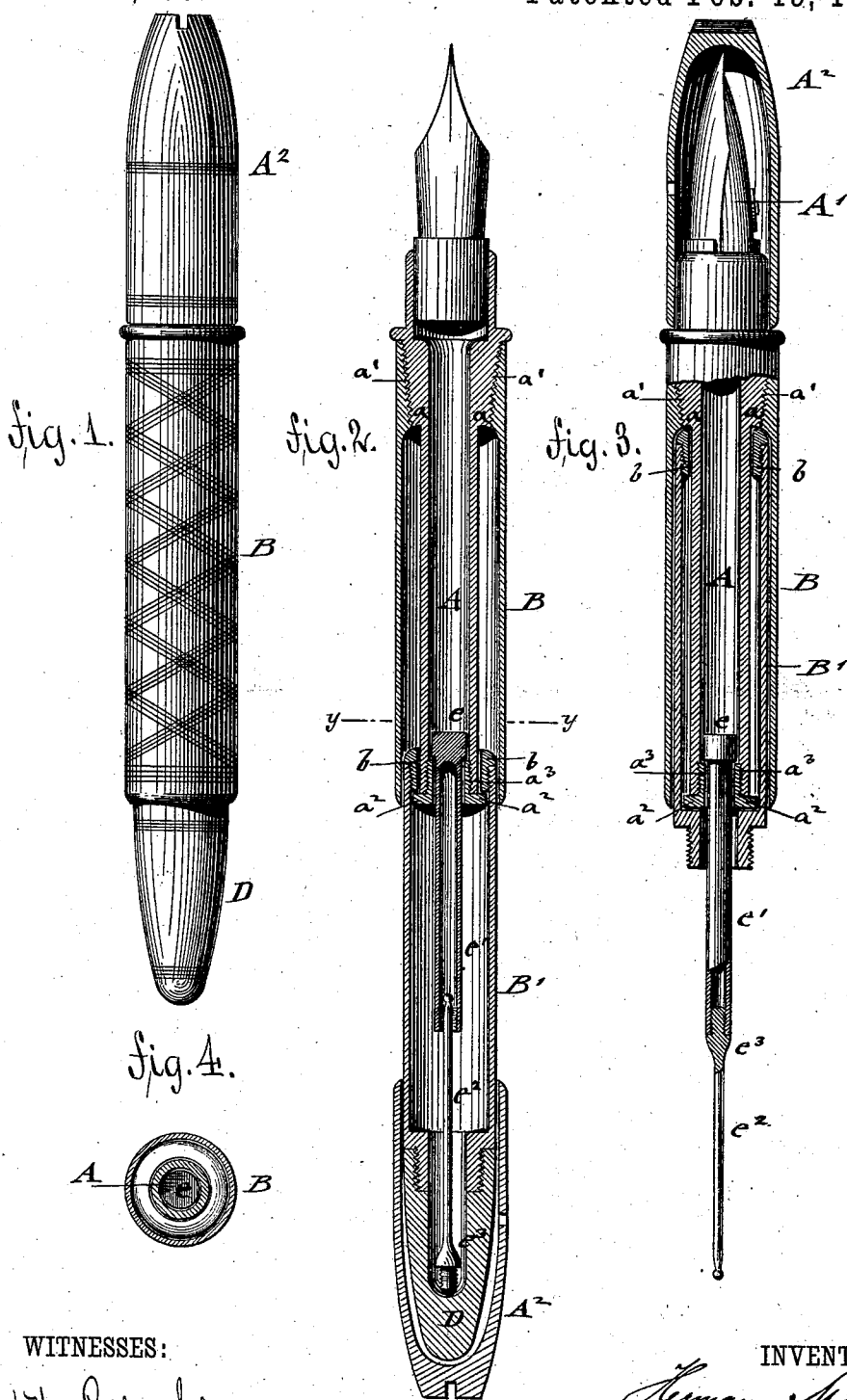
(No Model.)

H. MADEHEIM.

FOUNTAIN PEN.

No. 293,759.

Patented Feb. 19, 1884.



WITNESSES:

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HERMANN MADEHEIM, OF BROOKLYN, NEW YORK.

FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 293,759, dated February 19, 1884.

Application filed November 2, 1883. (No model.)

To all whom it may concern:

Be it known that I, HERMANN MADEHEIM, of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Fountain-Pens, of which the following is a specification.

Most of the fountain-pens heretofore in use could be carried only with some inconvenience in the pocket, and were consequently liable to get broken on account of their great length, while the shorter fountain-pens were not so convenient in writing.

The object of this invention is to furnish a fountain-pen which can be carried conveniently in the pocket when not required for use, and which can be extended to the proper length when used for writing; and the invention consists of an extension handle-section which is guided in an annular space between the ink-fountain and a fixed exterior handle-section. The ink-fountain is provided with stop-shoulders at both ends, against which a stop at the inner end of the sliding extension-section abuts when arriving at either shoulder. The ink-fountain is filled through a valved spout by a piston, the hollow piston-rod of which is extended by a detachable section that screws into a socket at the outer end of the piston-rod, as will more fully appear hereinafter.

In the accompanying drawings, Figure 1 represents a side elevation of my improved fountain-pen. Fig. 2 shows a vertical longitudinal section of the same with its extension-handle drawn out to its full length. Fig. 3 is a vertical longitudinal section, shown with extension-handle pushed in and the piston-rod of the ink-fountain in position for filling the ink-fountain; and Fig. 4 is a horizontal section on line *y y*, Fig. 2.

Similar letters of reference indicate corresponding parts.

In the drawings, A represents a tubular ink-fountain, at one end of which is arranged a valved ink-discharge spout, A', and the socket for the gold or other pen. The spout A' and the pen are protected by a cap, A², in the usual manner. The ink-fountain is provided with a shoulder, *a*, and exterior threaded portion, *a*, at that part next to the spout, and with an exterior shoulder, *a*², at its rear end.

To the threaded portion *a*' an exterior tubular main handle-section, B, is screwed, which is

equal in length with the ink tube or fountain A. A sliding tubular extension, B', of the handle B is guided by a shoulder, *b*, at its inner end in the annular space between the ink-fountain A and the fixed handle-section B. The shoulder *b* of the extension-handle B' abuts against the shoulder *a*² of the ink-fountain when the extension-handle is drawn out to its full extent, or against the shoulder *a* when it is pushed in, as shown in Figs. 2 and 3, respectively. The extension-handle B' can thus be moved forward or back, but cannot be withdrawn from the space between the ink-fountain and the fixed handle-section. The upper end of the extension-handle B' is provided with a screw-thread and with a hollow detachable cap, D.

At the interior of the ink-fountain A a tightly-fitting piston, *e*, is arranged, which is provided with a hollow piston-rod, *e*', having an interior screw-thread at its outer end. The piston *e*, on being drawn back by its rod, abuts against an interior stop-shoulder, *a*³, of the rear end of the ink-fountain. A detachable extension, *e*², of the piston-rod *e*' screws by its threaded end into the screw-socket at the end of the piston-rod *e*' until a shoulder, *e*², of the extension *e*² abuts against the piston-rod. When ink is to be drawn into the ink-fountain through the discharge-spout, the extension-piston *e*² is screwed into the socket of the hollow piston-rod *e*', as shown in Fig. 3. The spout A is placed into the ink-fountain, and the piston then drawn back, so that its suction fills the ink-fountain with ink. The extension *e*² of the piston-rod *e*' is then unscrewed and stored away in inverted position in the hollow piston-rod *e*', so as to be out of the way of the telescoping extension-handle when the same is pushed into the main section of the handle, as shown in Fig. 2.

When the fountain-pen is used, the extension-handle is drawn out to its full length, whereby writing is facilitated, while when it is pushed into the main handle-section the size of the pen is reduced, so that the same can be carried more conveniently in the pocket.

I do not claim the piston, broadly, as this feature is old and well known.

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

1. In a fountain-pen, the combination of an

ink-fountain having a discharge-spout, a fixed exterior handle-section surrounding the ink-fountain, and a telescoping extension that is guided between the ink-fountain and the main
5 handle-section, substantially as set forth.

2. In a fountain-pen, the combination of an ink-fountain having a discharge-spout and a stop-shoulder at each end, a fixed handle-section inclosing the ink-fountain, and a telescoping
10 extension-handle having a shoulder at its inner end, by which it is guided between the ink-fountain and handle-section, substantially as specified.

3. The combination of the ink-fountain hav-

ing a valved ink-discharge spout, a piston hav- 15
ing a hollow piston-rod, and a detachable extension piston-rod adapted to be screwed into a socket at the end of the hollow piston-rod, or placed in inverted position into the same
when not in use, substantially as set forth. 20

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

HERMANN MADEHEIM.

Witnesses:

PAUL GOEPEL,
CARL KARP.