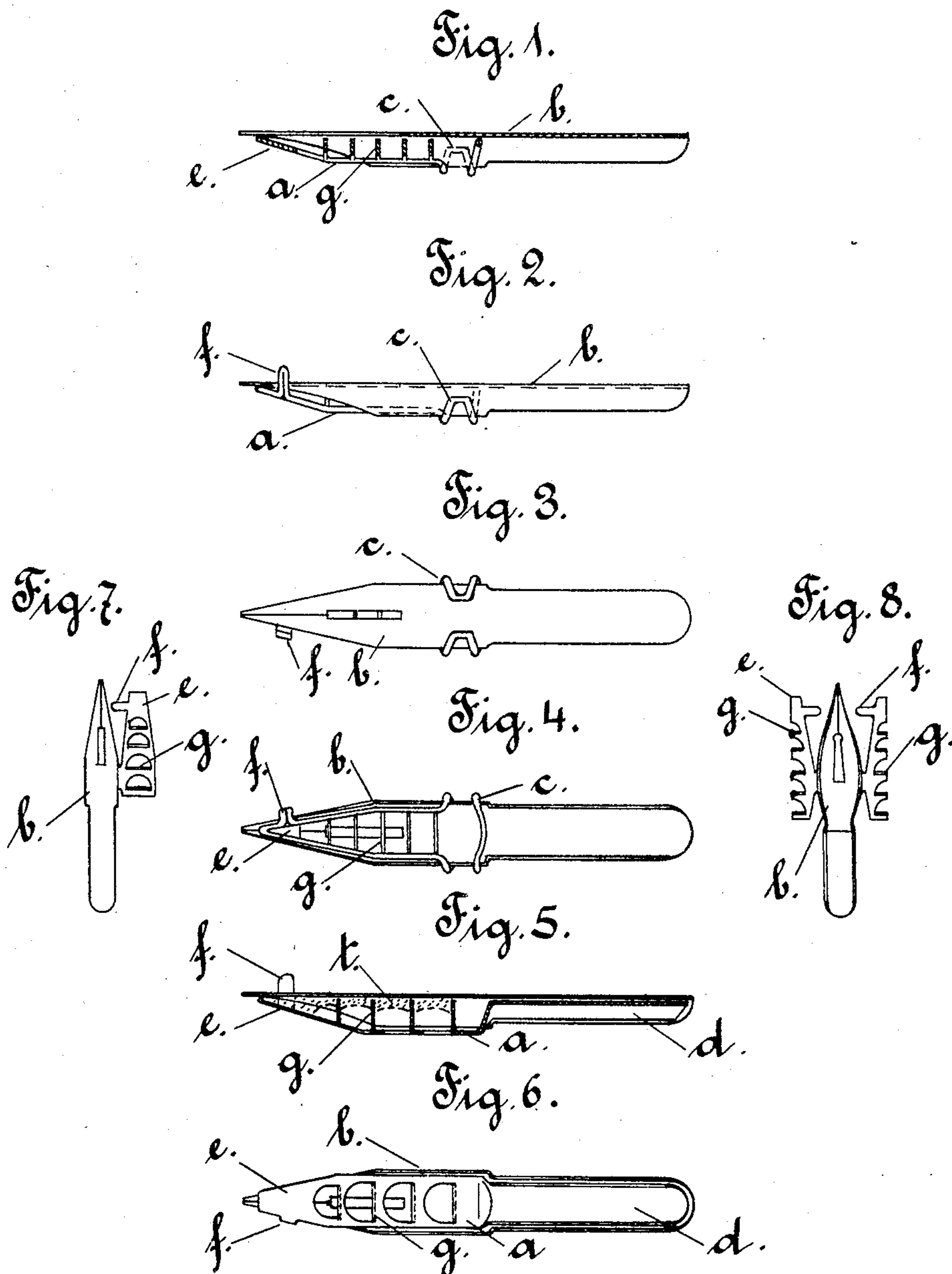


No. 779,567.

PATENTED JAN. 10, 1905.

H. TARTSCH.
RESERVOIR ATTACHMENT FOR PENS.
APPLICATION FILED APR. 12, 1904.



Witnesses:
M. Peters.
Arthur Lips.

Inventor:
Herman Tartsch
by *Erich Peters* his atty.

UNITED STATES PATENT OFFICE.

HERCULAN TARTSCH, OF KÖNIGSBERG, GERMANY.

RESERVOIR ATTACHMENT FOR PENS.

SPECIFICATION forming part of Letters Patent No. 779,567, dated January 10, 1905.

Application filed April 12, 1904. Serial No. 202,776.

To all whom it may concern:

Be it known that I, HERCULAN TARTSCH, engineer, a subject of the King of Prussia, German Emperor, residing at 7 Mühlenberg, Königsberg, Germany, have invented a new and useful Improvement in Reservoir Attachments for Pens, of which the following is a specification.

My present invention deals with a device which may be attached to any sort of pen to the end that a pen equipped with such device takes up so much ink at a single dipping that one may write considerably more in a much shorter time than with a pen not equipped with this contrivance. The devices which have heretofore been known and used for this purpose had the fault that the ink attached itself to them and dried there, thus making the device unfit for use.

The object of this invention is a device of such character that the ink is completely used up by the pen, which therefore always remains ready for use.

In the accompanying drawings, Figures 1 to 4 show a construction selected to demonstrate the method of operation, viz: Fig. 1 is a longitudinal section of the pen and the attachment; Fig. 2, a side view of same; Fig. 3, a view from above; Fig. 4, a view from below. Figs. 5 to 8 show constructions which would most probably be adopted for the trade, viz: Fig. 5, a longitudinal section; Fig. 6, a view from below; Figs. 7 and 8, a view from below, pen and reservoir device punched from one piece and represented as not yet bent.

The fountain attachments which have been known up to the present time form in every case hollow spaces which are closed below. For this reason the ink clings to the lower parts of these contrivances, as the above-mentioned hollow spaces in the same present a large surface. If the connection between the ink in the lower parts of these hollow spaces and that in the upper parts on the pen proper is broken, the ink in the lower parts remains there to no purpose.

A frame *a*, of wire or of thin springy (sheet) metal, is so attached to the pen that it lies entirely under the concave surface of the same.

The frame is fastened to the pen *b* by means of small claws *c*, which clasp the posterior part of the pen, as is shown in Figs. 1 to 4, or by means of a prolongation *d* of the ink-holder, which is inserted into the pen-holder in the same manner as the pen itself, or the ink-holder and pen may be punched together out of the same piece of metal, Figs. 7 and 8.

The springy portion *e* of the holder lying under the nib is a thin plate from which extends a small projection *f*, which is bent upward at right angles to the ink-holder and extends above the upper surface of the pen. Attached to the frame at right angles to it and transverse to the axis of the pen are thin sheets *g*, which extend nearly to the inner surface of the hollow of the pen. By this means small compartments for the ink are formed, which are completely open below, so that the ink adheres to the pen above between the sheets *g* and must be completely consumed by the movement of the nib, as the ink in the various chambers always remains in contact with the pen and is continuous. When the pen is to be used no longer and the ink to be removed, the projection *f* is pressed against the side of the ink-well, through which the entire contrivance *a e g* is raised away from the inner surface of the pen, and the ink runs to the point of the pen and drops off.

What I claim as my invention, and desire to secure by Letters Patent, is—

A reservoir attachment for pens comprising an elastic frame adapted to be fitted under the concave side of the pen, means on the frame for holding same in connection with the pen, cross-walls on said frame forming cross-compartments which are open below, in the mold of the pen, a springy plate at the end of the frame underneath the nib of the pen, and a projection near the rear end of said plate, all as described and for the purpose set forth.

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

HERCULAN TARTSCH.

Witnesses:

M. HANNKE,
LEOP. REY.