

R. YOUNG.
RESERVOIR PEN.
APPLICATION FILED APR. 8, 1910.

962,485.

Patented June 28, 1910.

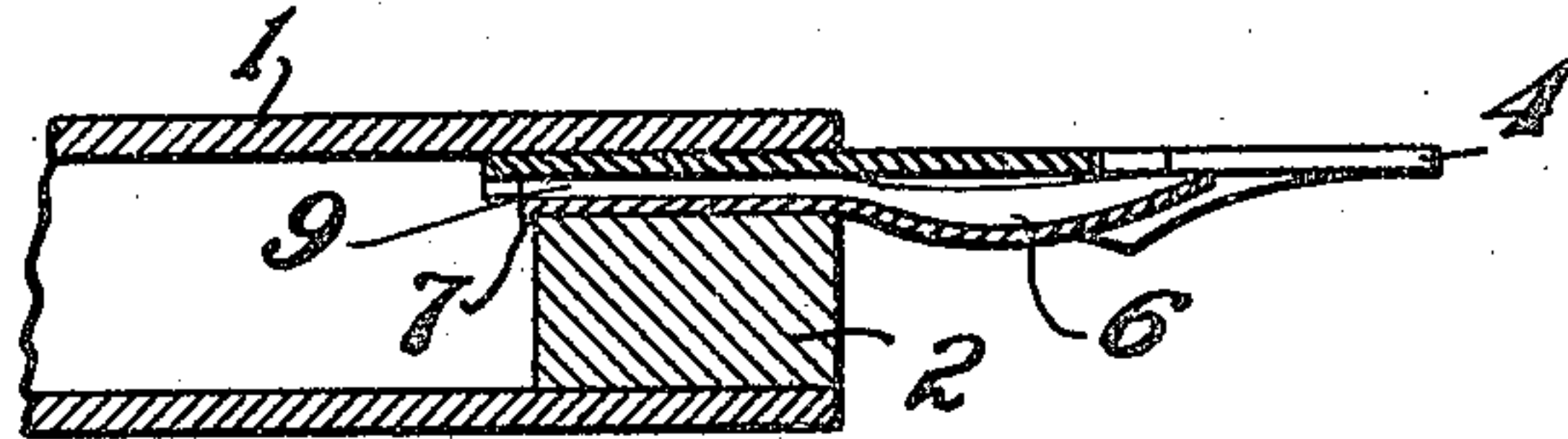


FIG. 1

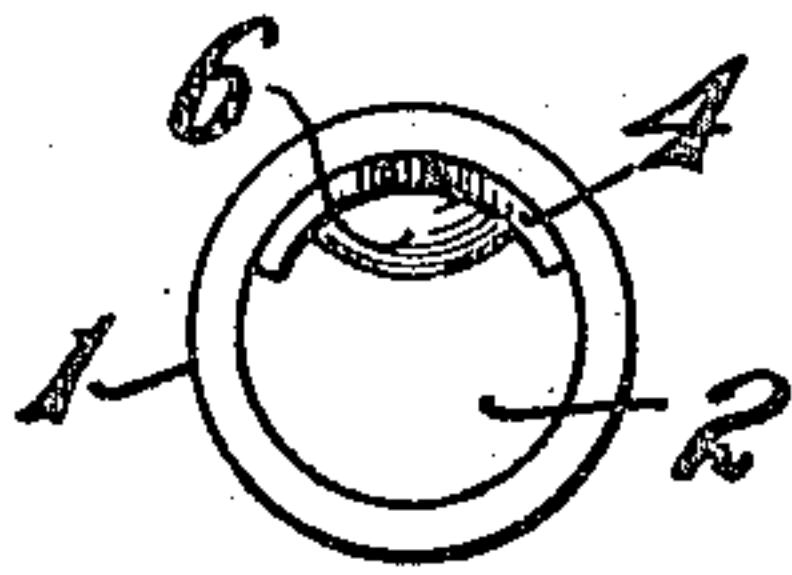


FIG. 2

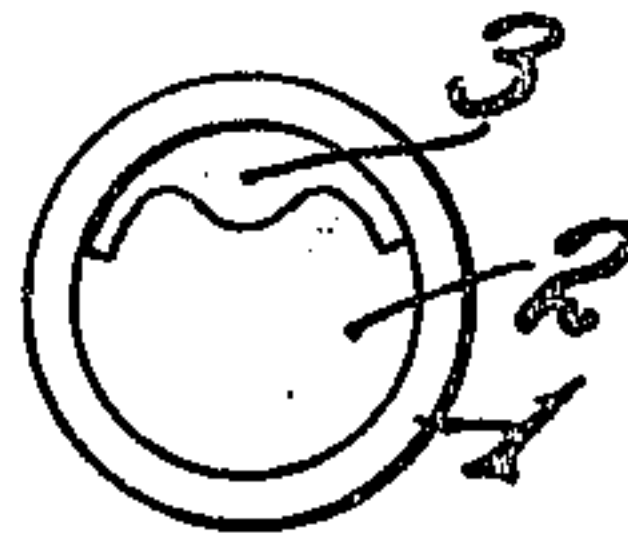


FIG. 3

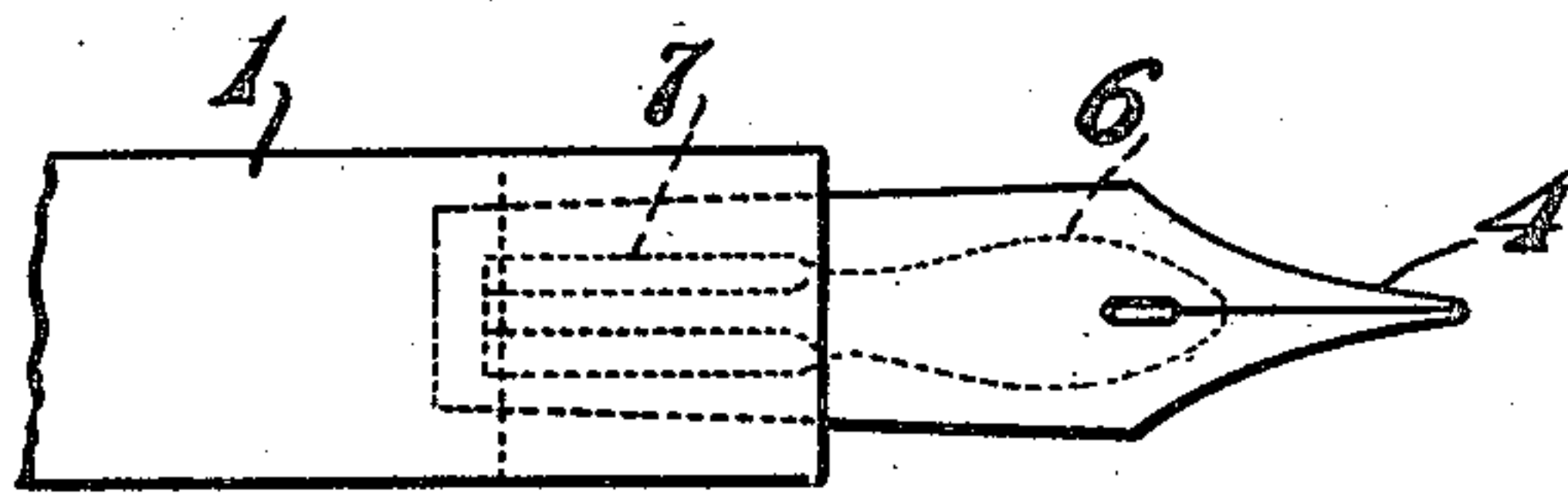


FIG. 4

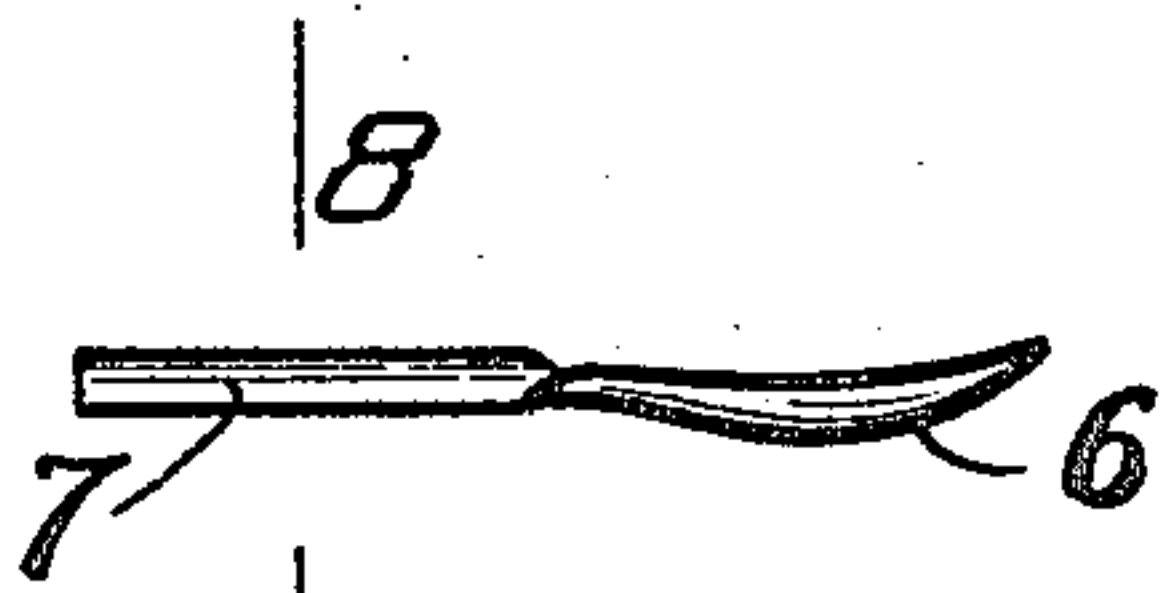


FIG. 5

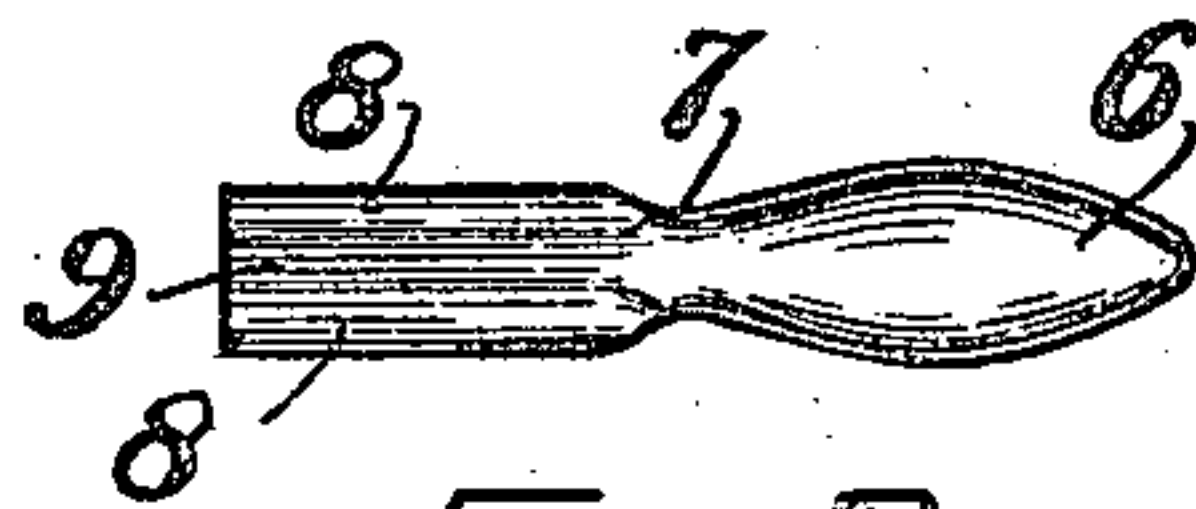


FIG. 6

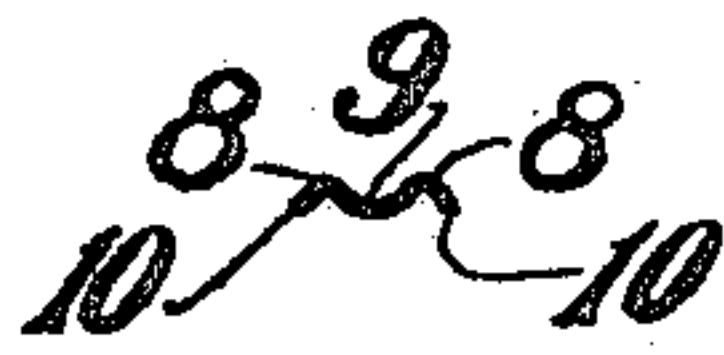


FIG. 7

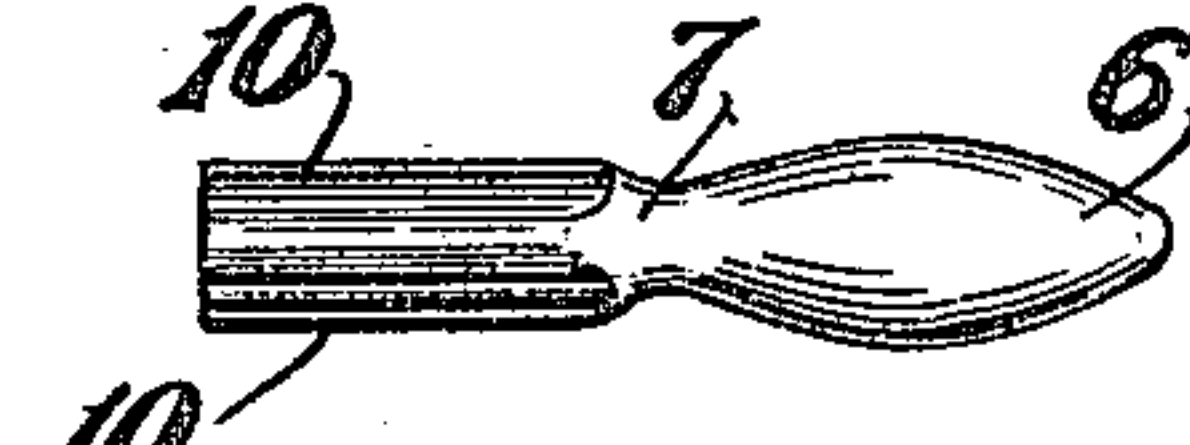


FIG. 8

WITNESSES
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RESERVOIR-PEN.

962,485.

Specification of Letters Patent. Patented June 28, 1910.

Application filed April 8, 1910. Serial No. 554,087.

To all whom it may concern:

Be it known that I, ROBERT YOUNG, a citizen of the United States, residing at Fitchburg, county of Worcester, Commonwealth of Massachusetts, have invented certain new and useful Improvements in Reservoir-Pens, of which the following is a specification.

This invention relates to pens, and particularly to the construction of the feed in reservoir or fountain pens.

In reservoir pens, one of the great difficulties has been that, if made integral with the pen point, the feed structure was apt to be expensive to make, or to involve difficulties of construction which effected the writing properties of the nib. If, on the other hand, the reservoir feature was made separate, the matter of assemblage with the various styles of pen points used was made difficult and the retention of the reservoir and pen in a holder a matter of further difficulty. In fountain pens the feed has usually been formed of rubber and been built in so that it was not only not removable itself, but prevented the removal of the pen point in case of leakage or damage.

It is, therefore, the object of my present invention to provide a structure in which pen points of any style or shape to suit the tastes of the individual user may be used with either a barrel or a reservoir capable of easy assemblage and ready removal for the purposes of cleaning or of removing the point. To this end I have provided a special form of feed having an improved shank construction and also a barrel or holder construction well adapted to cooperate with such. This will be more fully described in the specification which follows in which I have described the construction and operation of my device by reference to an illustrative embodiment which I have shown in the drawings accompanying the specification.

Throughout specification and drawings reference to the various parts is made through the medium of numerals correspondingly used throughout and in the drawings.

Figure 1 is a central vertical section of a pen point and feed set in a portion of a handle or barrel, Fig. 2 is a front view of a pen handle with point and feed in place, Fig. 3 is an end view of a handle with the

point and feed removed, Fig. 4 is a view of the upper side of the pen point, feed and handle, Fig. 5 is a side view of a feed, Fig. 6 is a top view of the same, and Fig. 7 is a bottom view of the same.

In the end of a handle or barrel 1 is formed, preferably by the insertion of a molded piece 2, a slot or opening 3 left between the piece 2 and the upper portion of the holder 1. Within this is inserted an ordinary point 4 of any type satisfactory to the user and below this a feed 6 having a shank 7 which is suitably alined with the shank of the pen point 4. The feed has a reservoir 6, is spoon shaped at its forward end and at its rear end is narrowed into the shank 7 which has a double crimp 8—8 with a central groove 9. The outer edges 10—10 are downturned to conform to the inner curve of the pen shank. This crimping of the shank of the reservoir provides not only a stiffened shank of suitable shape with a central top duct 9 and double bottom vents but also provides a laterally compressible shank adapted to be gripped within the curved shank of the pen when the same is forced within the holder.

When the parts are assembled, as shown in Figs. 1, 2 and 4, the pen, if used as a reservoir pen may be dipped in the ink, thus filling the reservoir 6. In use, the ink from the reservoir 6 feeds down through the nib of the pen, a uniform air relief or vent being afforded through the groove 9. Owing to the structure of the shank 7 the pen point and reservoir may be readily removed, either for the cleaning of the point and reservoir or for the insertion of a new point. When used as a fountain pen the feed through the duct 9 will be maintained by the air relief of the supply in the barrel by the vents below the shank 8—8.

Various modifications may obviously be made in the construction and operation of my device, all without departing from the spirit of my invention if within the limits of the appended claim.

What I, therefore, claim and desire to secure by Letters Patent is:—

A sheet metal reservoir feed attachment for a pen point, comprising a spoon shaped ink container having the ink retaining depression stamped on its upper side and a longitudinally corrugated stem having a central longitudinal depression stamped on its

upper side and connecting with said depression of said spoon shaped ink container and a depression near each edge of the shank on its under side and opening at the base of the
5 spoon shaped ink container, the same being formed by the said corrugation of the stem, substantially as shown and described.

In testimony whereof, I affix my signature in presence of two witnesses.

ROBERT YOUNG.

Witnesses:

JOSEPH W. DOWNS,
ELLIS SPEAR, Jr.