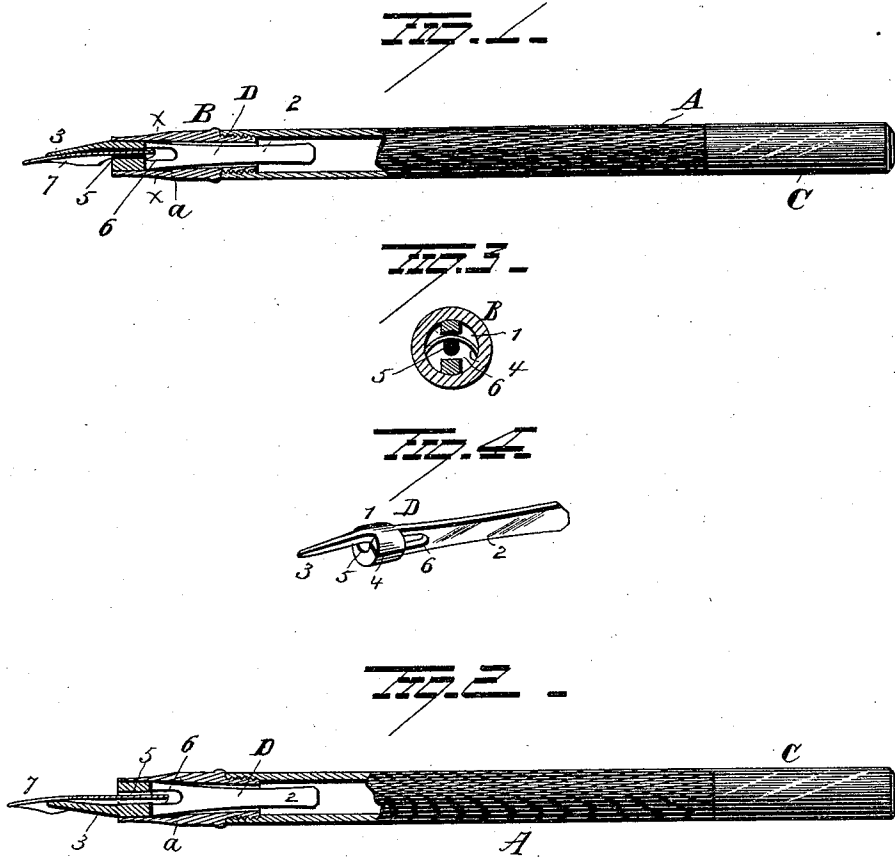


(No Model.)

G. S. PARKER.
FOUNTAIN PEN.

No. 455,023.

Patented June 30, 1891.



Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE S. PARKER, OF JANESVILLE, ASSIGNOR OF ONE-HALF TO WILLIAM F. PALMER, OF NEENAH, WISCONSIN.

FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 455,023, dated June 30, 1891.

Application filed November 26, 1890. Serial No. 372,733. (No model.)

To all whom it may concern:

Be it known that I, GEORGE S. PARKER, a citizen of Janesville, in the county of Rock and State of Wisconsin, have invented certain new and useful Improvements in Fountain-Pens; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in pens, and more particularly to fountain-pens, its object being to produce an improved pen of the class specified, whereby the stem, disk, and feeding-finger of the plug may be made in one piece and so constructed that the heel of the pen may be brought into contact with the supply of ink in the barrel.

A further object is to so construct the plug that the ink will be led down to the pen and also furnish surface to retain the ink in the barrel, and in a measure prevent its overflow when the ink is nearly exhausted in the barrel.

A further object is to so construct the plug that when the pen is inserted the shank of said plug will lead the ink away from the pen, thus preventing the ink between the pen and feeding-finger from flowing over the side of the tubular piece, and thus soiling the fingers when the pen is next used.

A further object is to provide a plug for a fountain-pen having a shank of sufficient length and strength to permit the user to push the plug out of the tubular piece, so the pen may be cleaned or a new one inserted in case of repairs, &c.

A further object is to so construct a fountain-pen that the ink will be fed to the top or to the under side of the pen and flow by gravity and capillary attraction to the nibs of the pen, and so than an easy ingress of air to displace the ink, as the latter is drawn out in writing, will be afforded and the prompt and regular action of the pen insured.

With these objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts as hereinafter set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is an elevation of my improved pen, partly in

longitudinal section, showing an upper-feeding pen. Fig. 2 is an elevation of my improved pen, partly in longitudinal section, showing an under-feeding pen. Fig. 3 is a view on the line *xx* of Fig. 1. Fig. 4 is a separate view of the plug.

A represents the barrel of the pen, which may be of any preferred construction, said barrel being provided at one end with internal screw-threads for the reception of the screw-threaded shank of a tubular piece B, which is provided internally, at a point between its ends, with a shoulder *a*, for a purpose explained further on. On this tubular piece B the usual cap C is adapted to fit. Located in the tubular piece B, against the shoulder *a*, is a plug D. The plug D comprises a disk 1 and integral shank or stem 2, adapted to extend up into the barrel A, and a feeding-finger 3, integral with and projecting forwardly from the edge of the disk 1. The disk 1 is provided with a slit 4, extending entirely or partially across said disk and adapted to receive the heel of a pen of special or ordinary construction. The disk 1 is also provided with an opening or perforation 5, which extends through it and communicates at its upper end with a recess 6, made in the shank 2, immediately above the disk 1, in which recess the heel of the pen 7 is adapted to project. From this construction it will be seen that the ink will be brought into contact with the heel of the pen, and will be carried by capillary attraction of the finger 3 to the nibs of the pen, and that sufficient air will be permitted to flow through the opening or perforation 5 to compensate for the ink displaced. The short distance the ink is compelled to flow at all by the capillary attraction and the thin partition or disk allows an easy ingress of air and insures a prompt and regular action.

In the form of the invention shown in Fig. 2 the plug is practically the same as above described, and the slit 4 preferably made to extend entirely across the same, the finger 3 being adapted to extend beneath the pen, instead of above, and the opening 5 being above the shank of the pen. Thus it will be seen that my improved plug may be employed to feed the ink either to the upper or under face of the pen.

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

1. In a fountain-pen, a plug comprising a 5 cylindrical disk, a shank and feeding-finger integral with the disk, the latter constructed with a longitudinal opening and the shank having a transverse slot in communication with the opening in the disk, substantially as 10 set forth.

2. In a fountain-pen, a plug comprising a disk, a shank and a feeding-finger made of one piece of material, said disk being provided with an opening adapted to communicate with 15 a recess in the shank, substantially as set forth.

3. The combination, with the barrel of a fountain-pen and a tubular piece, of a plug 20 inserted in said tubular piece, said plug comprising a disk having an opening or perforation, a shank having a recess adapted to communicate with the opening or perforation in the disk, and a finger adapted to feed ink to the nibs of the pen, said disk being provided

with a slit to receive the heel of a pen and 25 permit said heel to project into the recess in the shank or stem, substantially as set forth.

4. The combination, with the barrel of a fountain-pen and a tubular piece, said tubular piece having a shoulder therein, of a plug 30 inserted in said tubular piece against the shoulder therein, said plug comprising a disk having an opening or perforation, a shank having a recess adapted to communicate with the opening or perforation in the disk and a 35 finger adapted to feed ink to the nibs of the pen, said disk being provided with a slit to receive the heel of a pen and permit said heel to project into the recess in the shank or stem, substantially as set forth. 40

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

GEORGE S. PARKER.

Witnesses:

W. S. FLAGLER,
SILAS HAYNER.