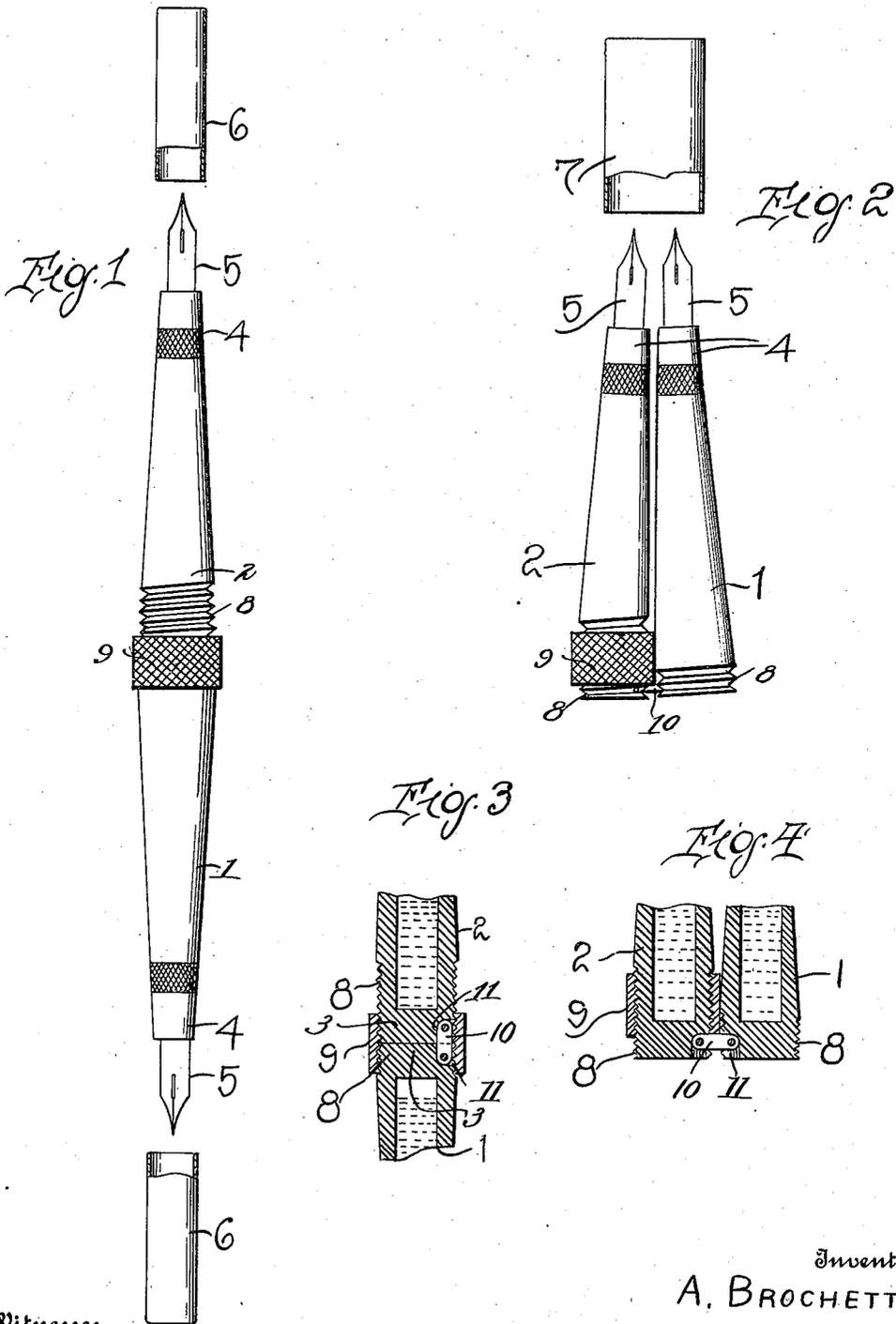


A. BROCHETTI & J. FAMILLET.  
 DUPLEX FOUNTAIN PEN.  
 APPLICATION FILED AUG. 19, 1914.

1,166,741.

Patented Jan. 4, 1916.



Witnesses

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# UNITED STATES PATENT OFFICE.

AMADIO BROCHETTI AND JOSEPH FAMILLET, OF DUNKIRK, NEW YORK.

## DUPLEX FOUNTAIN-PEN.

1,166,741.

Specification of Letters Patent.

Patented Jan. 4, 1916.

Application filed August 19, 1914. Serial No. 857,545.

*To all whom it may concern:*

Be it known that we, AMADIO BROCHETTI and JOSEPH FAMILLET, citizens of the United States, residing at Dunkirk, in the county of Chautauqua and State of New York, have invented certain new and useful Improvements in Duplex Fountain-Pens, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in fountain pens, and particularly to improvements in that class of fountain pens wherein duplex barrels are provided whereby two colors of ink may be carried in the barrels and the pens may be used independently of each other.

The primary object of our invention is the provision of a duplex fountain pen of the character above stated, which consists of a pair of barrels each carrying a pen point and so hinged to each other that the barrels may be either alined or arranged in parallel relation, and that when the barrels are alined they will abut against each other firmly, a further object being in this connection to provide means for connecting the barrels in their alined relation and holding them securely alined.

In the accompanying drawings: Figure 1 is an elevation of our improved pen showing the barrels in alined position; Fig. 2 is an elevation showing the barrels in folded position; Fig. 3 is a fragmentary longitudinal sectional view of the barrels in alined position; and Fig. 4 is a longitudinal section of the barrels in folded position.

Referring more particularly to the drawing, the numerals 1 and 2 designate a pair of barrels which are adapted to receive ink of different character such as black and red ink, the barrels being hingedly connected at their butt ends 3 and each of the barrels having a plug 4 mounted in the usual manner in its outer end to receive a pen point 5. If desired caps 6 may be provided to inclose each of the pens 5, when the barrels are in folded position, or a larger cap 7 of sufficient size to inclose both pens may be provided so that the same may hold the barrels in folded position when the same are not desired for use.

In the practical use of our improved pen, when the same is desired for use, the barrels 1 and 2 are swung to alined position, so that either pen point may be used by simply reversing the position of the pen, and when

the pen is not desired for use or when it is desired to use the pens with the pen points in parallel relation the barrels are then swung to folded position so that the same extend in parallel relation with each other to receive the large cap 7 or the small caps 6, in which position the pen is adapted to be placed in a pocket with both pen points extending upwardly, so that danger of leakage of ink from the barrel is obviated. The use of the large cap 7 is preferable, as the same prevents any unfolding of the barrels, thereby maintaining the same in their compact relation and preventing accidental breaking of the hinge.

The barrels are hinged to each other by means of a link 10 disposed in a recess 11, this link being pivotally connected to each barrel and being of such length that when the barrels are turned into alined position, as shown in Fig. 3, the butt ends 3 of the barrel will engage firmly with each other. In order to lock the barrels in their alined position, each of the barrels is reduced in diameter at its butt end and screw threaded, as at 8, to engage with a sleeve 9. This sleeve when the barrels are in alined position is adapted to be moved so as to partially inclose each of the threaded extensions, to lock the barrels in alined position whereby accidental folding of the barrels is prevented, the barrels being held in alined position until the sleeve is moved from disengagement with the extension of the barrel 1. By using the large cap 7 in connection with the locking sleeve 9, it will be seen that the barrels may be locked either in folded position or in alined position.

It will be noted from Figs. 3 and 4 that the hinged connection of the barrels to each other consists of a link 10 whose ends are disposed in recesses 11 formed in the abutting ends of the barrels, the link being less in width than the depth of said recesses so that when the barrels are turned to an alining position, as in Fig. 3, the links will not project beyond the exterior faces of the barrels but will be within the lines of said exterior faces so as to permit the sleeve 9 to be shifted down over the joint between the two barrels. It will further be noted that the link 10 is further necessary because it accommodates the sleeve 9 between the barrels when the barrels are shifted to the position shown in Fig. 4. It is also pointed out that the screw threads on the barrel 1 are

relatively short and approximately extend for a distance about one-half the length of the sleeve 9. As a consequence when the sleeve is turned down to the position shown in Fig. 3, it will more or less bind upon the screw threads on the barrel 1, holding the sleeve from accidental reversal which would shift the sleeve to such a position as to allow the barrels to "break."

10 Having thus fully described our invention, what we desire to claim and secure by Letters Patent is:

A fountain pen comprising a pair of barrels the abutting ends of which are correspondingly recessed, a hinged member disposed in the recesses and less in width than the depth of the recesses, the hinged member being pivotally connected at its ends to the adjacent wall of each barrel, the abutting ends of the barrels having flat end faces and both of the barrels at their abutting ends

being exteriorly screw threaded, and a sleeve having screw threaded engagement with the barrels, the screw threaded portion of one barrel being greater in length than the sleeve 25 whereby the sleeve may be moved upon the last named barrel to permit the barrels to break at the joint, the screw threaded portion of the other sleeve being approximately one-half of the length of the sleeve whereby 30 to limit the movement of the sleeve upon said last named barrel to a position where the sleeve shall overlap equally on both barrels.

In testimony whereof we hereunto affix 35 our signatures in the presence of two witnesses.

AMADIO BROCHETTI.  
JOSEPH FAMILLET.

Witnesses:

JOHN J. MADIGAN,  
JOHN G. FLAHAREN.