

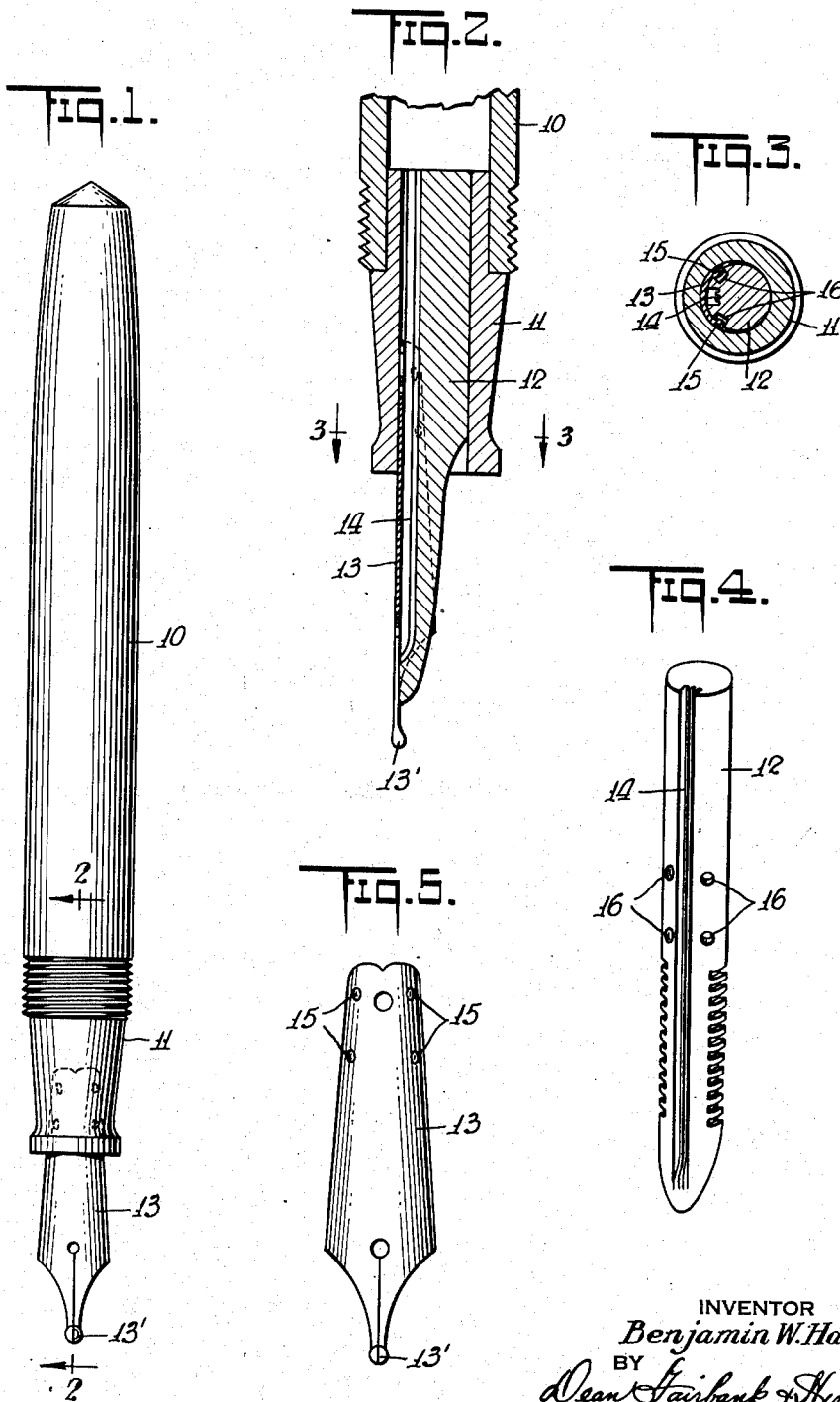
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FOUNTAIN PEN

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## UNITED STATES PATENT OFFICE

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## FOUNTAIN PEN

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2 Claims. (Cl. 120—50)

The present invention relates more especially to fountain pens of very low price which do not admit of the cost of repair service, and have heretofore been usually discarded when the short-lived base-metal pen nib thereof becomes inoperative or broken, even though the barrel, feed and filler structure remain intact.

An object of the invention is to multiply the useful life of fountain pens of the above type by facilitating the replacement of a worn out or inoperative nib with a new one by the ordinary user, and thereby dispensing with the cost of repair service, yet with complete assurance of accurate registry of the nib.

In the accompanying drawing, in which is shown one of various possible embodiments of the several features of the invention.

Fig. 1 is a front elevation of a fountain pen embodying the invention,

Fig. 2 is a view in longitudinal section on a larger scale, taken on line 2—2 of Fig. 1,

Fig. 3 is a view in transverse cross-section taken on line 3—3 of Fig. 2,

Fig. 4 is a perspective view of the feed section, and

Fig. 5 is a front elevation of the pen nib.

Referring now to the drawing, the fountain pen includes the conventional type of barrel 10 with suitable filling mechanism (not shown), having the conventional section 11 at the forward end thereof and in which is frictionally retained the feed 12 and the pen nib 13. The feed has the usual longitudinal grooves 14 on its front face over which the pen nib is symmetrically placed, and the root of the latter is frictionally retained against the bore of the section 11 when the feed and nib are in place as shown in Fig. 2.

Unless the nib is correctly positioned with respect to the feed, the pen is obviously inoperative. Heretofore, it has required the degree of skill possessed by a fountain pen repairman as well as tools to assemble the parts in proper correlation and with assurance that there shall be no injury to the nib in the process of such assembly.

According to the present invention, the feed and pen nib are provided with coating conformations that accurately register the pen nib to extend longitudinally and symmetrically of the feed and also accurately to determine the extent of projection of the writing point 13' with respect to the forward end of the feed 12. These conformations desirably comprise lateral indentations or embossments in the pen nib, which desirably are struck therein by the same die which shapes the nib and preferably comprise two pairs of circular dents 15 protruding

from the concave side of the nib near the root thereof, the two pairs of aligned dents near the root being preferably somewhat nearer each other than that pair nearer the point.

The feed is desirably provided with two pairs of shallow drill holes 16 flanking the groove 14 and positioned to accommodate the dents in the pen nib. The depressions 16 are somewhat deeper than the height of the dents 15, as best shown in Fig. 3, so that the latter are completely accommodated therein without the pen nib being spaced from the feed, and the pen nib lies as snugly against the feed as if the positioning conformations were lacking.

The cost of applying the positioning conformations on the pen nib and feed of otherwise conventional construction is negligible. By the arrangement set forth, the useful life of a cheap fountain pen is greatly extended. In practice, the user would purchase the extra nibs of the construction shown. The positioning of a fresh pen point is about as easy, if not an easier operation than the replacement of the steel pen point in an ordinary pen holder. The used pen nib with the feed is simply pulled out of the section 10, the old pen nib is discarded and the fresh pen nib superposed over the feed, in which operation the dents 15 on the nib enter the depressions 16 in the feed, whereupon the feed with the nib is simply pushed into place in the section 11, all with definite assurance that the pen nib is in proper registry with the feed.

As many changes could be made in the above construction and many apparently widely different embodiments of this invention could be made without departing from the scope of the claims, it is intended that all matter contained in the above description or shown in the accompanying drawing shall be interpreted as illustrative and not in a limiting sense.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent of the United States is:

1. A fountain pen comprising a section, a feed having a longitudinal ink feeding groove and a pen nib in superposed relation therewith, said pen nib being frictionally held between the feed and the section in the assembled pen, the nib having indentations protruding from the concave face thereof and the feed having depressions registering therewith symmetrically arranged at opposite sides of said groove for accurate positioning of the pen nib with respect to the feed in the assembled structure.

2. A pen nib for a fountain pen having near the sides of its base end indentations affording protrusions from the concave face of the nib.

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