March 6, 1934. W. E. MOORE 1,950,364

FOUNTAIN PEN FEED

Filed Sept. 26, 1932

FIG-1

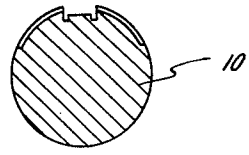


FIG-2

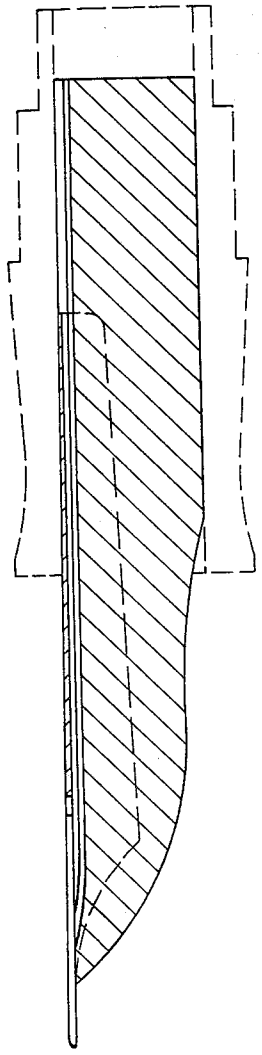


FIG-3

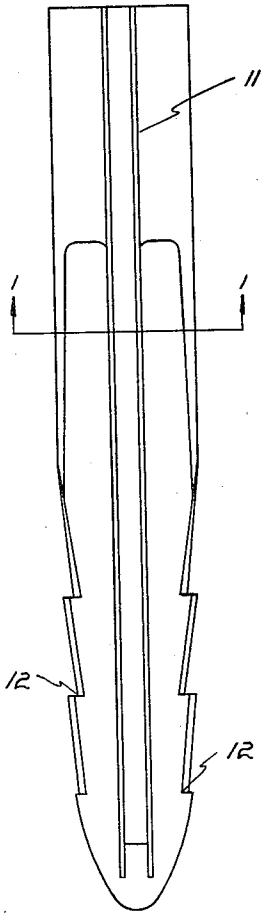
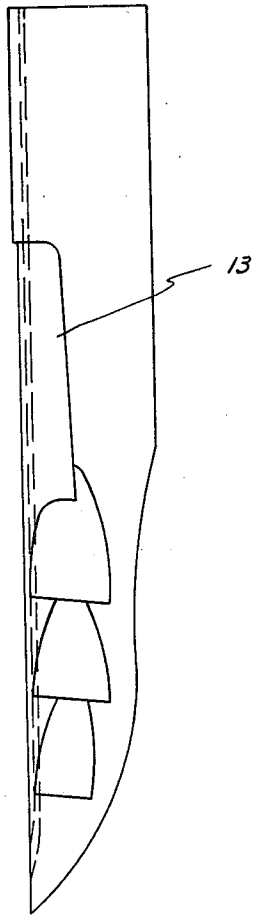


FIG-4



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Patented Mar. 6, 1934

1,950,364

UNITED STATES PATENT OFFICE

1,950,364

FOUNTAIN PEN FEED

William Edgar Moore, Janesville, Wis., assignor to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin

Application September 26, 1932, Serial No. 634,831

2 Claims. (Cl. 120—50)

My invention relates to improvements in fountain pens, and primarily to that portion of the pen commonly known as the feed.

The feed is the member on which the pen or nib is seated, which assembly is then force-fitted into the open end of the section. The said feed is channeled directly below the nib, said channels connecting the ink on the inside of the barrel of the pen with the nib point, the depth and width of the channel being of predetermined measurements as to permit slow feeding of the ink to the point.

Heretofore the assembly of the nib and feed within the section caused the said section to be warped out of round because the nib projected above the round section; thus when the assembly of the feed and nib was force-fitted in the aperture in the section, which is of a diameter approximately that of the diameter of the round feed, the section was warped out of shape. This warping action also caused undue strain to be placed on certain parts of the heel of the nib, and in many instances caused the said heel to crack, the crack sometimes extending from the heel to that portion of the nib extending from the section.

The construction of my feed overcomes the above two structural weaknesses described.

In order to more fully understand my invention, reference must be had to the accompanying drawing in which:

Fig. 1 is a cross sectional view of my improved feed on the lines of 1—1 of Fig. 3;

Fig. 2 is a longitudinal sectional view of my improved feed with a nib placed in position thereon;

Fig. 3 is a top plan view of my improved feed showing the ink channels etc;

Fig. 4 is a side plan view.

Specifically, the construction of the feed is as follows:

The numeral 10 generally indicates the feed which is round from the rearmost end to midway its length, whereupon it is formed to a semi-elliptical shape which is graduated to a point at the forward end of the feed.

Feed channels 11 are cut into the said feed; the said channels may be of any desired depth and width.

Capillary reservoirs 12 are also formed in the said feed, which reservoirs form the function of gathering excess ink which may flow from the interior of the barrel to the point.

A nib seat 13 is molded or otherwise formed on the top of the feed, the contour of which seat is exactly that of a nib that is adapted to be placed thereon, and the depth of the said seat at the heel or rear end is approximately that of the thickness of the nib that is adapted to be seated therein.

The depth of the feed tapers from the heel to the point as to permit frictional engagement of the nib, the feed and the inner periphery of the section in which the nib and feed are adapted to be seated.

By the above construction, the assembled nib and feed present practically a circular surface to the inner periphery of the section when the nib and feed are force-fitted into the said section and, of a consequence, distortion of the section and the consequent strain placed on the nib which causes cracking of the said nib is eliminated.

Having described my invention, what I desire to claim and secure by Letters Patent is:

1. A fountain pen comprising in combination a barrel, a section in said barrel, a feed in said section ink channels running longitudinally of said feed, a pen seat formed in said feed adjacent the said ink channels, the said seat tapering as respects the feed from one end to the other.

2. A fountain pen comprising in combination, a barrel, a section in said barrel, a feed in said section ink channels running longitudinally of said feed, a pen seat formed in said feed adjacent the said ink channels, the rear-most end of said seat being of a depth approximately that of the thickness of the heel of a pen adapted to be seated on said seat, and the said depth tapering from the depth at the heel to nothing at the front end of said feed.

WILLIAM EDGAR MOORE.