

Feb. 10, 1959

B. TRESPALACIOS

2,872,899

WRITING INSTRUMENT

Filed Dec. 2, 1957

Fig. 1.

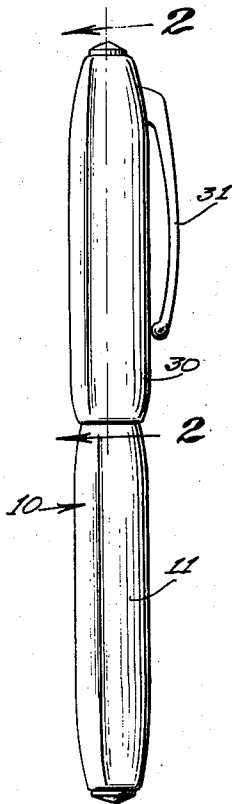


Fig. 2.

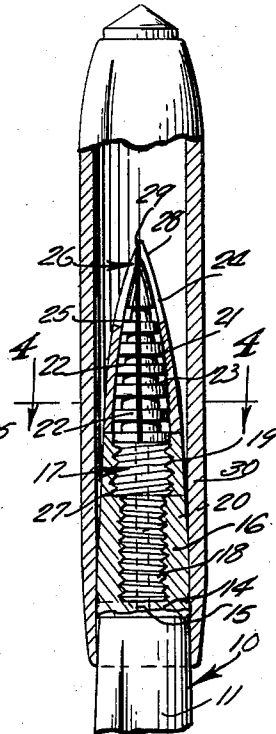


Fig. 4.

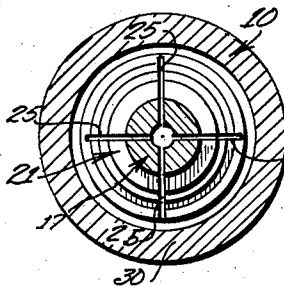


Fig. 3.

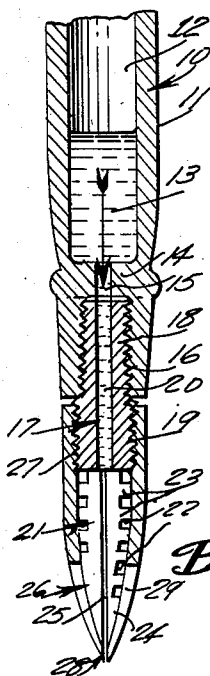


Fig. 5.

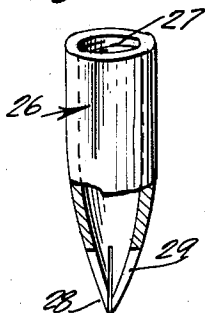
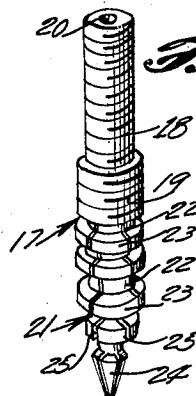


Fig. 6.



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2,872,899

WRITING INSTRUMENT

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1 Claim. (Cl. 120—45.6)

This invention relates to a writing instrument, and more particularly to a fountain pen.

The object of the invention is to provide a writing instrument that includes a novel means of supplying ink to the writing point.

Another object of the invention is to provide a writing instrument that includes a barrel which is provided with an ink holding reservoir therein, and wherein a member is detachably connected to the barrel and wherein the last named member has means for supplying an adequate supply of ink to the writing point.

A further object of the invention is to provide a writing instrument that is extremely simple and inexpensive to manufacture.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawings, forming a part of this application, and in which like numerals are used to designate like parts throughout the same.

Figure 1 is an elevational view of a writing instrument, constructed according to the present invention.

Figure 2 is a sectional view taken on the line 2—2 of Figure 1.

Figure 3 is a sectional view showing the cap removed from the writing point and with parts broken away and in section.

Figure 4 is a sectional view taken on the line 4—4 of Figure 2.

Figure 5 is an elevational view of the body member, with parts broken away and in section.

Figure 6 is a perspective view of the detachable support member, with parts broken away and in section.

Referring in detail to the drawings, the numeral 10 indicates the writing instrument of the present invention, and the writing instrument 10 includes a barrel 11 which is provided with a hollow interior that defines a reservoir 12 for holding a quantity of ink 13.

The barrel 11 is provided with a shoulder 14 that has a central aperture 15 therein, Figure 3, whereby the ink 13 can flow from the reservoir 12 out through the aperture 15. Any suitable mechanism can be used for filling the reservoir 12 with ink 13.

Projecting from an end of the barrel 11 and secured thereto or formed integral therewith is an internally threaded neck 16. As shown in Figure 6, there is further provided a support member which is indicated generally by the numeral 17, and the support member 17 includes a first externally threaded portion 18 which threadedly engages the neck 16. The support member 17 further includes a second portion 19 which is also threaded, and the portion 19 is of greater diameter than the portion 18. A longitudinally extending centrally disposed bore 20 extends through the portions 18 and 19, and the bore 20 registers with the aperture 15 in the shoulder 14.

As shown in the drawings, the support member 17 further includes a third portion 21 which is provided with a pointed end or tip 24. The third portion 21 of the support member 17 is further provided with a plu-

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ality of spaced parallel channels 22 and these channels define therebetween spaced parallel circular ribs 23. There is provided in the portion 21 a plurality of spaced apart slots 25 whereby ink can selectively flow or pass through the proper slots until it reaches the writing tip of the instrument.

As shown in Figure 5, the numeral 26 indicates a body member which is provided with an inner threaded portion 27 which is adapted to threadedly engage the portion 19 of the support member 17. The body member 26 further includes a pointed tip or point which is indicated by the numeral 28, and there is provided adjacent the point 28 a plurality of spaced apart slits 29.

As shown in Figures 1 and 2, a cap 30 may be arranged over the writing tip when the fountain pen is not being used, and the cap 30 may be provided with a conventional retaining clip 31.

From the foregoing, it is apparent that there has been provided a writing instrument which includes a novel writing tip and a means for feeding ink thereto. When the writing instrument 10 is not being used, the cover 30 is in the position shown in Figures 1 and 2. When the instrument is being used for writing, the cover 30 can be readily removed in the usual manner, and then with the pen in the position of Figure 3, the ink will flow from the reservoir 12 through the aperture 15 and then the ink which is indicated by the numeral 13 will flow through the bore 20. Some of this ink will flow through the slots 25 into the channels 22 so that the channels 22 will act as supplementary reservoirs for holding some of the ink. This ink can then work its way down to the vicinity of the tip 24 and the tip 28 so that when a person presses on the tip of the writing instrument, the ink will flow so that the pen can be used for writing as desired.

It is to be noted that the support member 17 includes the portion 18 which threadedly engages the neck 16, and this construction permits the support member 17 to be removed and replaced when ever desired. Furthermore, the body member 26 includes the threaded portion 27 which threadedly engages the portion 19 so that by unscrewing the body member 26, different types or other body members 26 can be arranged on the writing instrument. Thus, it will be seen that the construction of the present invention provides a means whereby the support member 17 and body member 26 are replaceable so that the user can write with the writing tip that best suits his fancy or desires.

The parts can be made of any suitable material and in different shapes or sizes.

The point may be made of hard metal and may include portions thereof which are made of steel or iridium or other suitable material, and if desired a suitable cover may be arranged over the pen point. The point may be made of polished metal and the point may be constructed so that fine lines or heavy lines can be made, on sheets of paper or the like. The channels 22 and ribs 23 and slots 25 provide a means whereby an adequate supply of ink is available for writing on the paper or other material. A conventional type of ink can be used in the pen, that is, a common type of ink can be used.

The above description of the invention is for illustrative purposes only and it is understood that modifications may be made in the construction within the scope and spirit of the following claim.

I claim:

In a writing instrument, a tubular barrel provided with a fluid holding reservoir therein, a shoulder in said barrel provided with a central aperture for the passage therethrough of fluid from said reservoir, an internally threaded neck projecting from an end of said barrel, a support member including a first cylindrical portion arranged

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in threaded engagement with said neck, said support member further including a second threaded portion of greater diameter than said first portion, there being a central bore in said body member and said bore communicating with said aperture, said support member further including a third portion terminating in a pointed tip, there being a plurality of spaced parallel channels in said third portion and said channels defining therebetween spaced parallel ribs, the third portion of said support member being provided with a plurality of spaced apart slots, and a body member having its inner threaded

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section threadedly engaging the second threaded portion of said support member, said body member having an end portion which tapers to a point, there being a plurality of spaced apart slits in the pointed end of said body member.

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