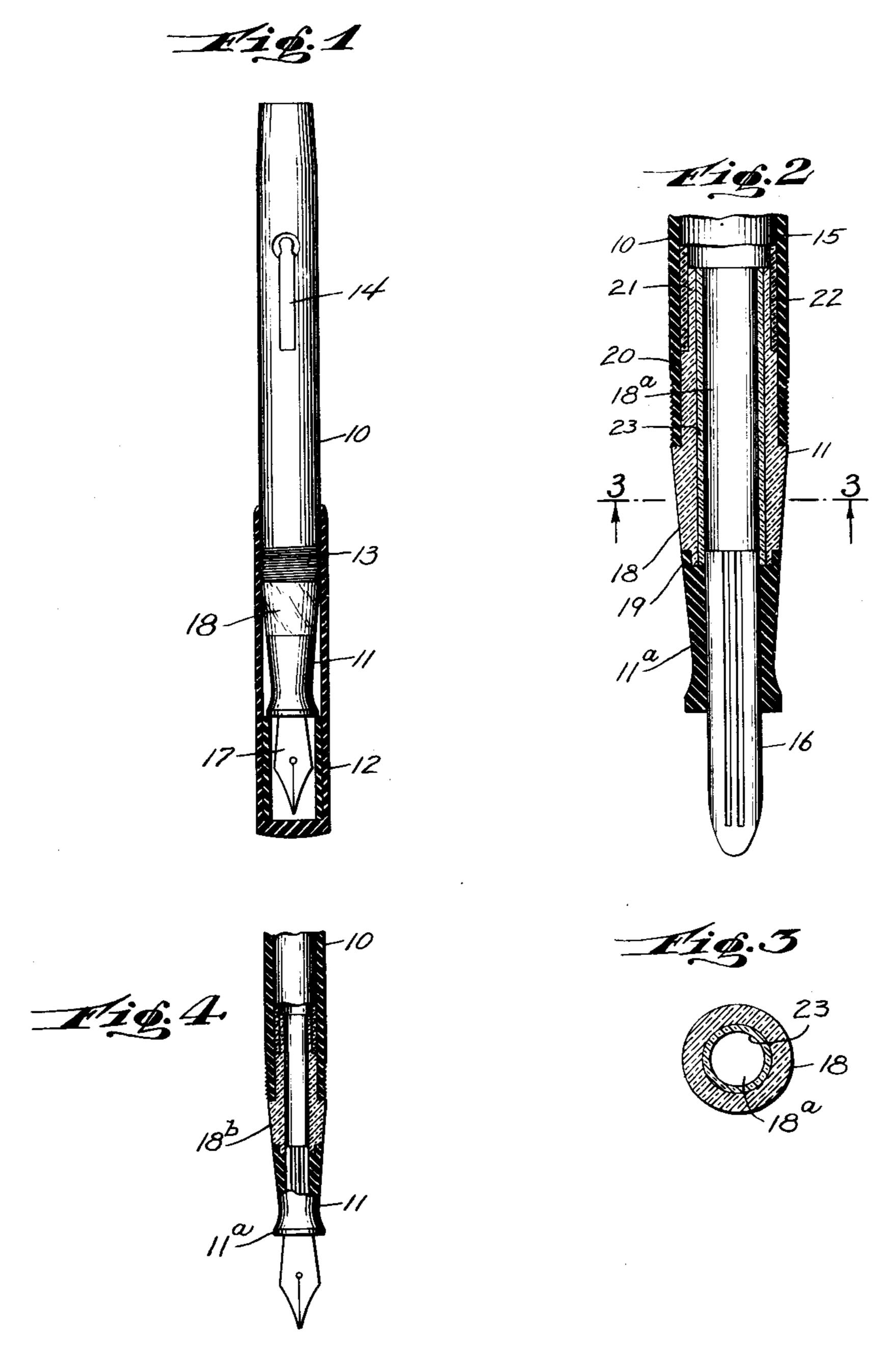
POINT AND FEED SECTION OF FOUNTAIN PENS

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## UNITED STATES PATENT OFFICE

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POINT AND FEED SECTION OF FOUNTAIN PENS

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particularly to what are known as the sec-section 11. In the section 11 is supported tions or tips of fountain pens in which the usual ink feed control member 16 and pen point and feed are mounted; and the pen point 17. <sup>5</sup> object of the invention is to provide such Instead of providing a section or tip of 55 sections with a transparent body portion ex- unitary construction and of opaque material posed to the fluid chamber or passage of the as has been the common practice, I provide section so as to render the ink contained the section 11 inwardly of the reduced lower therein visible through said transparent body end 11a thereof with a body portion 18 of whereby the presence of ink supplied to the transparent material, which in the structure 60 point of the pen may be mounted at all times; shown in Figs. 1 to 3 inclusive, is preferably a further object being to provide a trans- of a non-breakable nature, such for example parent body for sections of the class de- as celluloid. The body 18 is cemented or scribed composed of a single, transparent otherwise secured to the extension 11a as body part or of two transparents body parts; seen at 19, and has a reduced inner end 20 35 and with these and other objects in view, the detachably supported in the open end of the invention consists in a device of the class and barrel 10. The extension 20 is further refor the purpose specified, which is simple in duced at the inner end 21 to receive the open construction, efficient in use, and which is end of the sack 15 which is mounted thereon <sup>20</sup> constructed as hereinafter described and as seen at 22. claimed.

following specification, of which the accom- conjunction with the body 18 and as a liner panying drawing forms a part, in which the for the bore 18a thereof an elongated sleeve separate parts of my improvement are desig- or tube 23, the latter preferably extending 75 nated by suitable reference characters in each the full length of the body 18 and being ceof the views, and in which:

ing to my invention with part of the con-time, it will be understood that the entire struction in section.

structure shown in Fig. 1, with parts broken away and removed.

Fig. 3 is a section on the line 3—3 of Fig. 35 2; and,

Fig. 4 is a detail, sectional view of one end portion of a pen showing a modification.

In the construction shown in Figs. 1 to 3 inclusive, I have shown a fountain pen consisting of a barrel 10, to the open end of which is detachably coupled the point or ink of ink thereon, which interferes with the feed section or tip 11, the structure of which clear transparency of the device. While this constitutes the distinctive feature of my in- form of construction does not render the devention. At 12, I have shown the usual de- vice totally inoperative, I find a clearer and tachable cap normally enclosing the section more satisfactory result is accomplished by 95 11 when the pen is not in use, and which is the use of glass or other transparent matein threaded engagement with the barrel as rial of a similar nature. For this reason, it seen at 13. At 14, I have shown the usual is preferred to use the combination shown in lever controlling the compression of the ink Fig. 2, employing the non-breakable body sack 15, note Fig. 2, arranged in the barrel 18 with the glass liner 23. It will be under-

This invention relates to fountain pens and 10 and coupled with the inner end of the

In the form of construction shown in Figs. The invention is fully disclosed in the 1 to 3 inclusive, I also preferably employ in mented or otherwise secured thereto and be-Fig. 1 is a side view of a pen made accord- ing preferably composed of glass. At this body 18 may be of unitary construction. In 80 Fig. 2 is a detail, sectional view of the Fig. 4 of the drawing, I have shown at 18b a body of this class, which may be composed of glass, celluloid or other transparent material, assembled into the section 11 of the pen in the same manner as the attachment of the 85 section shown in Figs. 1 to 3 inclusive.

From experience, I have found that the use of celluloid alone in the formation of the body 18—18b, tends to cloud the inner wall or bore of the section by a collection of a film 90

stood, however, that the unit device as shown arranged in alinement with the wall of said 5 18b is disposed within and between the nonbreakable tip end 11a and the barrel 10 of the fountain pen.

In the use of my improved device, it will be understood that when the pen is supported 10 in writing position, the presence of fluid in the pen will be readily seen through a transparent body 18-23 or the body 18b, and when the user knows that a relatively small quanti-15 ent bodies, the necessity of refilling the pen an outer portion of non-breakable material 80 with the users of fountain pens to find that therein. the pen has run dry and it is necessary to re-20 fact that no means for indicating the amount disposed at one end of said barrel, a tubular 85 of ink in the pen has heretofore been provided in any practical way. With my construction, it will be understood that the user of the pen will have due notice of the necessity 25 of refilling the pen before the full amount of feed member passes and may be seen, said 90 ink has been consumed.

While I have shown a specific arrangement of the transparent body in the tip section of a fountain pen, it will be understood 30 that my invention is not limited in this respect, and various other changes in and modifications of the construction herein shown and described may be made within the scope of the appended claims without departing 35 from the spirit of my invention or sacrificing its advantages.

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

Patent, is:— 1. A fountain pen of the class described, the point and feed section of which consists of tubular, transparent and opaque portions, the ink feed and pen point being supported in the opaque portion of said section and pro-45 jecting therebeyond, and said transparent portion being arranged inwardly of and in alinement with the opaque portion and comprising two sleeves of transparent material, one of which is non-breakable.

2. In a fountain pen, the pen point end portion of which is provided with a tubular section of transparent material arranged in alinement with the outer wall structure of the pen and through which the ink flow to the 55 point of the pen is visible, said section being composed of inner and outer sleeves secured together, one of said sleeves being composed of non-breakable material, said section being detachable with respect to the barrel of the pen and the tip end thereof supporting the pen point being opaque.

3. In a fountain pen comprising a barrel, a pen point supporting body detachable with respect to the open end of said barrel, said 65 body including a transparent wall portion

at 18b may be composed of glass, it being body, said transparent wall portion comprisunderstood that the chance of breakage is ing an outer tubular body of non-breakable relatively small, due to the fact that the body material and a tubular sleeve of glass fitting in and forming a liner for said tubular body, 70 and the ink for supply to the pen point passing through said transparent wall portion to be visible to the user.

4. In a fountain pen of the class described, a point and feed section detachable with re- 75 spect to the pen barrel and comprising a tubular body of transparent material through which ink for transmission to the point of ty of ink is visible through these transpar- the pen may be seen, said body comprising is made clear. It is a common experience and a lining sleeve of glass fitting snugly

5. In a fountain pen employing a tubular plenish the supply of ink. This is due to the barrel with a pen point and ink feed member body of transparent material arranged on the fountain pen inwardly of said pen point and ink feed member and through which ink for transmission to the pen point and ink tubular body comprising inner and outer sleeves of transparent material fitting snugly one within the other, and one of said sleeves being composed of non-breakable material.

In testimony that I claim the foregoing as 95 my invention I have signed my name this 22nd day of May 1931.

JOSEPH WALLACE.

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