

C. L. ARAGON.
 FOUNTAIN PEN.

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1,279,821.

Patented Sept. 24, 1918.

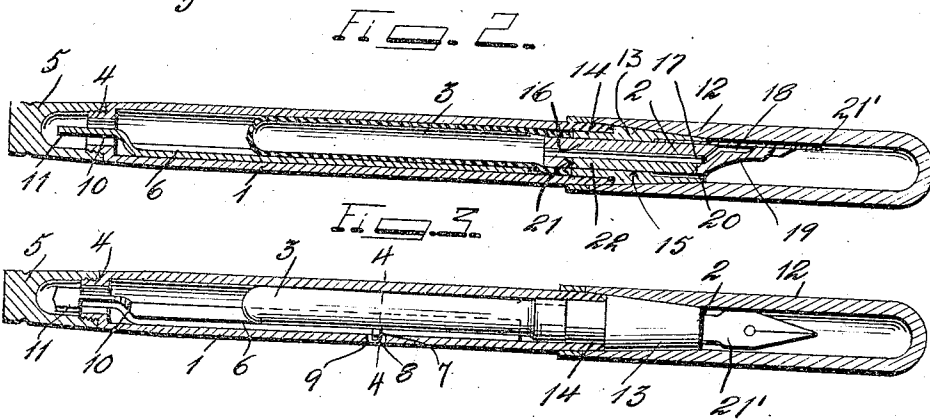
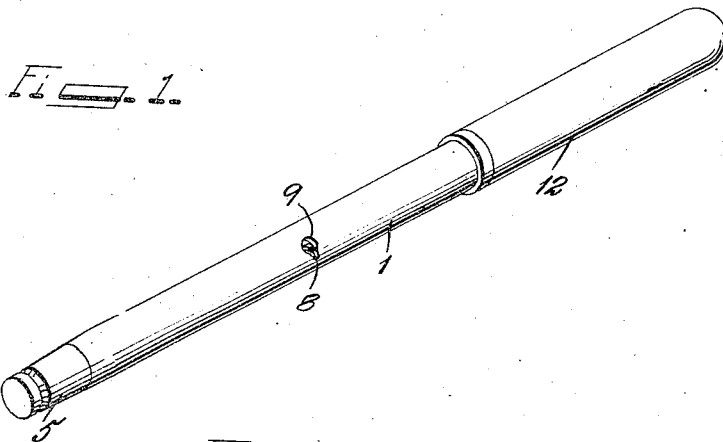


Fig. 4.

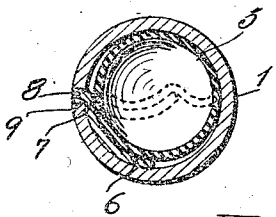


Fig. 7.

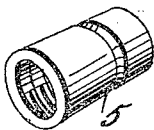


Fig. 5.

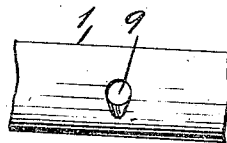
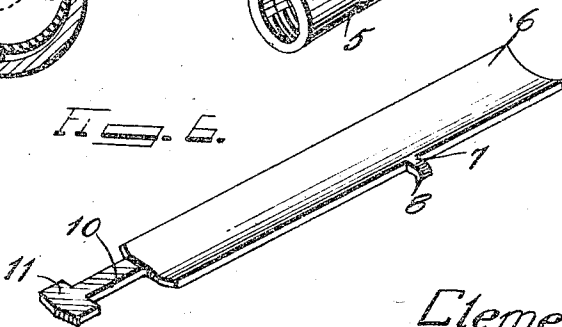


Fig. 6.



Witnesses

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FOUNTAIN-PEN.

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To all whom it may concern:

Be it known that I, CLEMENTS L. ARAGON, a citizen of the United States of America, residing at Reno, in the county of Washoe and State of Nevada, have invented certain new and useful Improvements in Fountain-Pens, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a fountain pen and has for its principal object the production of a simple and efficient means for filling the pen when empty.

Another object of this invention is the production of a pressure bar which is pivotally secured within the casing of the pen so as to bear upon the rubber reservoir whereby by pivoting the pressure bar it may compress the reservoir and thereby force the air through the reservoir prior to filling the same so that upon the release of the reservoir the reservoir may be filled with ink.

With these and other objects in view, this invention consists of certain novel combinations, constructions, and arrangements of parts as will be hereinafter fully described and claimed.

In the accompanying drawing:—

Figure 1 is a detailed perspective view of the fountain pen, constructed in accordance with this invention.

Fig. 2 is a central longitudinal section taken through the fountain pen, showing the device in an assembled position.

Fig. 3 is a central longitudinal section through the fountain pen, taken at right angles to Fig. 2, portions of the device being shown in elevation.

Fig. 4 is a section taken on the line 4—4 of Fig. 3.

Fig. 5 is a fragmentary side elevation of the casing, showing the opening formed therein which is adapted to receive the spur of the pressure bar.

Fig. 6 is a detailed perspective view of the pressure bar.

Fig. 7 is a detailed perspective view of a certain cap used in connection with this invention.

Referring to the accompanying drawing by numerals it will be seen that the fountain pen comprises a casing 1, of the usual construction, which is adapted to detachably carry the pen portion, indicated in general by 2. This pen portion 2 is adapted to be provided with the rubber reservoir 3 which

extends into the interior of the casing 1. The opposite end of the casing 1 is provided with a reduced threaded neck 4 and is adapted to detachably carry the cap 5 which forms a closure therefor. Inasmuch as it is necessary to fill the rubber reservoir 3 after the same has been emptied it is desirable to provide a simple and efficient means for allowing the reservoir to be filled without removing the same from the casing 1. Therefore there is provided the pressure bar, as herein described.

The pressure bar comprises an elongated body 6 which is curved in cross section throughout its entire length and has a spur 7 formed integral upon one side edge thereof as shown in Fig. 6. This spur 7 is hooked as shown at 8 and is adapted to extend through the opening 9 formed in the casing 1. Therefore by having this spur 7 extending through the opening 9, it will be seen that the pressure bar 6 will be pivotally supported within and upon the casing 1. After the pen has been assembled it will be seen that the pressure bar 6 will be interposed between the inner portions of the casing 1 and the outer portions of the rubber reservoir 3, as clearly shown in Figs. 2 and 3. An offset finger 10 is formed integrally upon one end of the pressure bar 6 and terminates in an enlarged gripping head 11. This finger 10 extends through the neck 4 of the casing 1 so as to allow the gripping head 11 to extend beyond the outer portions of the casing for facilitating the easy gripping thereof. It is of course obvious that a hood 12 may be provided for fitting over the pen portion or nib of the fountain pen when the device is not in use, as herein disclosed, this hood being capable of being detached and carried by the opposite end of the pen when it is desired to use the pen.

When the fountain pen is in operation, it will be seen that the ink will be gradually used from the rubber reservoir 3. When this reservoir has been emptied and it is desired to again fill the same, the cap 5 may be removed from the threaded neck 4 so as to expose the gripping head 11 of the pressure bar 6. This head 11 may be gripped and twisted so that the finger 10 will cause the pressure bar 6 to be swung by pivoting upon the spur 7. Since the spur 7 is hinged, as heretofore set forth, it will be prevented from accidentally slipping from the opening 9 formed in the casing 1. When the pres-

sure bar has been swung so as to compress the reservoir 3 as shown in dotted lines in Fig. 4, the air will be forced from the reservoir. The head 11 may then be released so that the resiliency of the reservoir 3 will cause the bar to again be swung to its normal position and at the same time the suction will cause the reservoir to be filled with ink.

10 The pen portion which is disclosed in general at 2, comprises a pen section 13 having the reduced portion 14 which is adapted to be forced or passed into the casing 1 for detachably retaining the pen section in engagement therewith. This pen section 13 has a central bore 15 extending therethrough and through this bore 15 there passes the feed 16. This feed 16 is provided with an angular passage 17 which communicates with the outer portion of the feed at the grooved portion 18 formed in the reduced end 19 of the feed 16. The pen section is cut away at 20 within its inner portion for the purpose of receiving the pen point 21'. When this pen point 21' is forced between the pen section 13 and the feed 16 it will be positively retained in position for use so as to cover the groove portion 18 to receive the ink passing through the angular passage 17 formed within the feed 16 which communicates with the interior of the reservoir 3. In order that the interior portions of the pen portion may be repaired or cleansed as required, the feed 16 is provided with the cut away portions 21 communicating with the angular passage 17. This cut away portion is adapted to be closed by means of the removable section 22 as shown in Fig. 2. When the device is assembled this sectional portion 22 is held in position by means of the pen section 13 and therefore the ink passing through the passage 17 will be prevented from accidentally spilling or escaping from the passage until it is discharged upon the pen point 21'. From this description, it will be seen that the pen portion of the pen is sub-

stantially made so as to minimize the possibility of its becoming out of order and which is so formed as to be easily disassembled when so desired for repairing or cleansing, or which may be positively retained in an assembled position for holding the pen in its correct position for use, when desired.

It will further be seen that a very efficient feed mechanism is provided for the pen portion, this pen portion being adapted to hold the pen point in its correct position and feed the ink thereto as the occasion requires but which may be easily disassembled for allowing the same to be easily cleansed or repaired as the occasion requires.

What I claim is:—

In a fountain pen of the character described, the combination of a casing having a pen portion, a yieldable reservoir carried by said pen portion within said casing, a pressure bar carried within said casing, said bar comprising an elongated body and being interposed between said casing and reservoir, said casing having an opening in its side, a hooked spur formed upon one side of said pressure bar, said spur fitting within said opening, an inwardly offset finger formed upon the upper end of said bar, said finger extending from the upper end of said casing, an enlarged flat gripping head formed upon said finger, whereby said bar may be turned by the turning of said neck and head, said bar being adapted to be swung so as to pivot upon said spur thereby compressing said reservoir prior to filling the same, said bar then being released so as to permit said reservoir to expand for creating a suction therein for refilling the same.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

CLEMENTS L. ARAGON.

Witnesses:

R. B. HENRICHS,
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