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FOUNTAIN PEN
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FIG. 1.

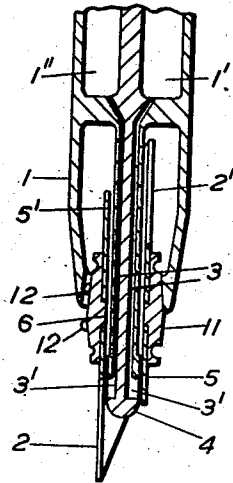
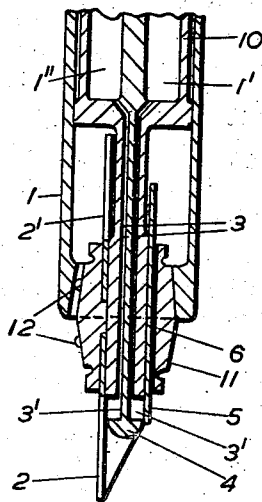


FIG. 2.



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FOUNTAIN PEN

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4 Claims. (Cl. 120—42.1)

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The present invention relates to fountain pens and more particularly to fountain pens, which are adapted to contain a plurality of inks having properties which vary from one to another, for example differently-coloured inks, and to dispense any selected one of said inks when required.

Fountain pens of this type known hitherto have embodied either a number of separate reservoirs and the same number of pen points, which form separate units within the pen barrel, or a number of reservoirs and one pen point with a rotatable feeding head, provided with a channel, which is adapted to connect a selected one of the reservoirs with the pen point. The first arrangement is rather clumsy. The second has the disadvantage, that when changing from one ink to another, remnants of ink are always present in the channel, so that this ink must be either used out or dropped off. Devices providing for squeezing these remnants out of the channel are of such a size that they must be made rather delicate and are therefore liable to cause troubles.

It is an object of this invention to provide a fountain pen of the type aforesaid, in which the change from one ink to another may be done easily, quickly and with the least possible remnants of the previously used ink left in the passages leading to the pen point, so that there is no undue loss of time when changing from one ink to another.

Other objects and advantages of this invention will be seen from the following specification in conjunction with the accompanying drawing in which:

Fig. 1 is a longitudinal section through the fore part of a fountain pen with a stationary feeding head and reservoirs and a removable barrel head bearing two pen points and two covering plates, and Fig. 2 is a similar longitudinal section showing a modification.

Referring to Fig. 1 of the drawing, two reservoirs 1', 1'' are provided in the body of the pen barrel 1 and the feeding head 4 is also formed integral with the barrel, or is secured thereto. Two channels 3 are provided in the feeding head 4, each channel leading from one of the reservoirs 1, 1' and being provided with an outlet 3¹ close to the end of the feeding head. A large opening is provided in the prolonged front end of the barrel 1 and a removable barrel head 11 is fitted therein. Two pen points 2, 2' and two covering plates 5, 5' are arranged on both ends of this barrel head in axially reciprocal alignment. Changes of kinds of inks may be achieved

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with this arrangement by removing the barrel head 11, turning it so that the pen point 2, which was previously in front, enters the hollow of the barrel 1, whereafter the barrel head is inserted into the barrel 1 and pushed into it. The pen point 2' comes into contact with the outlet 3' of the second channel 3, which had previously been closed by the covering plate 5. Stud 12 ensure the correct positioning of the pen point 2 or 2', adjacent the outlet 3¹ from the feeding channel 3. The advantage of this arrangement is, that for each color or kind of ink another pen point and covering plate are provided, always the same for the same color. Consequently the ink colors are not mixed at all—not even their remnants—thereby attaining ideal conditions with simple manipulation and instantaneous readiness of any color of ink.

Fig. 2 shows a substantially similar arrangement with the difference, that there is but one covering plate 5 unitary with the barrel head 11 which bear two pen points 2, 2' arranged in reciprocal alignment. The feeding head 4 is unitary with the casing 10 which contains the reservoirs 1' and 1'', said casing and feeding head being rotatably supported within the barrel 1.

What I claim is:

1. A fountain pen comprising a hollow pen barrel having an opening at the front end thereof, two reservoirs for ink supported within said barrel and spaced from said opening, a feeding head integral with said reservoirs and projecting through said opening, two channels in said feeding head each communicating with one of said reservoirs and terminating in an outlet in the region of the projecting part of said feeding head, a removable barrel head adapted for insertion into said opening and having a central passage to receive said projecting part to allow the barrel head to be slid thereover during such insertion, a pen point at each end of said barrel head, and cover plate means on said barrel head, the parts being so constructed and arranged that, when said barrel head is in position on the barrel, a selected one of said pen points is adapted to contact a selected one of said outlets to receive ink from one of said reservoirs, the other of said pen points is adapted to be located within the pen barrel in the space between said opening and the reservoirs, and said cover plate means is adapted to cover the other outlet to prevent outflow of ink from the other reservoir.

2. A fountain pen comprising a hollow pen barrel having an opening at the front end there-

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of, two reservoirs for ink supported within said barrel and spaced from said opening, a feeding head integral with said reservoirs and projecting through said opening, two channels in said feeding head each communicating with one of said reservoirs and terminating in an outlet in the region of the projecting part of said feeding head, a removable barrel head adapted for insertion into said opening and having a central passage to receive said projecting part to allow the barrel head to be slid thereover during such insertion, and a pen point and a cover plate in opposed relationship at each end of said barrel head, each pen point being in alignment with the cover plate opposed to the other pen point, the parts being so constructed and arranged that, when said barrel head is in position on the barrel, a selected one of said pen points is adapted to contact a selected one of said outlets to receive ink from one of said reservoirs, the cover plate opposed to said pen point is adapted to cover the other outlet to prevent outflow of ink from the other reservoir, and the other of said pen points and the cover plate opposed thereto are adapted to be located within the pen barrel in the space between said opening and the reservoirs.

3. A fountain pen comprising a hollow pen barrel having an opening at the front end thereof, two reservoirs for ink supported within said barrel and spaced from said opening, a feeding head integral with said reservoirs and projecting through said opening, two channels in said feeding head each communicating with one of said reservoirs and terminating in an outlet in the region of the projecting part of said feeding head, a removable barrel head adapted for insertion into said opening and having a central passage to receive said projecting part to allow the barrel head to be slid thereover during such insertion, a pen point at each end of said barrel head and disposed in mutual alignment, and a cover plate on said barrel head and opposed to said pen points, the parts being so constructed and arranged that, when said barrel head is in position on the barrel, a selected one

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of said pen points is adapted to contact a selected one of said outlets to receive ink from one of said reservoirs, the other of said pen points is adapted to be located within the pen barrel in the space between said opening and the reservoirs, and said cover plate is adapted to cover the other outlet to prevent outflow of ink from the other reservoir.

4. A fountain pen comprising a hollow pen barrel having an opening at the front end thereof, two reservoirs for ink supported within said barrel and spaced from said opening, a feeding head integral with said reservoirs and projecting through said opening, two channels in said feeding head each communicating with one of said reservoirs and terminating in an outlet in the region of the projecting part of said feeding head, a removable barrel head adapted for insertion into said opening and having a central passage to receive said projecting part to allow the barrel head to be slid thereover during such insertion, stud means on said barrel head adapted to ensure correct positioning thereof with respect to said feeding head, a pen point at each end of said barrel head, and cover plate means on said barrel head, the parts being so constructed and arranged that, when said barrel head is in position in the barrel, a selected one of said pen points is adapted to contact a selected one of said outlets to receive ink from one of said reservoirs, the other of said pen points is adapted to be located within the pen barrel in the space between said opening and the reservoirs, and said cover plate means is adapted to cover the other outlet to prevent outflow of ink from the other reservoir.

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