PATENT SPECIFICATION

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COMPLETE SPECIFICATION

Feed Device for Fountain Pen Nibs

We, ETABLISSEMENTS STYLOMINE, a French Body Corporate, of 2 rue de Nice, Paris XI°, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

The present invention relates to an ink feed device for fountain pen nibs so that the pen nib will not be short of ink when it is desired to obtain a broad line.

In the usual construction, when a broad line is required from the pen, the two half nibs of the pen move away one from the other; at the same time the ink, by capillary action, has a natural tendency to run away from the tip of the pen with the result that the supply of ink is reduced and eventually stopped.

The present invention has for its object to remove this drawback.

To obtain this result the invention provides a rigid projection on the body of the fountain pen extending over towards the tip of the pen nib and forming above said nib a rectilinear or substantially rectilinear upwards slope, this slope forming a suitable angle with the upper horizontal part of the pen nib.

The result is that whilst the nib is free to move upwards when pressed to write a heavy broad line, at the same time the ink which has accumulated by capillary action between the pen nib and the rigid projection is forced towards the writing end of the pin by capillary action because the distance between the pen nib and the rigid projection is reduced: therefore a supply of ink is forced towards the writing end of the pen compensating for the reduction or stoppage of ink supply described above in the case of the usual construction. Of course the effective angle of the rigid projection over the pen nib must be small and such that it remains within the limits of efficient capillary action.

To facilitate the flow of ink between the rigid projection and the nib a recess may be provided in the body above the eye of the nib wherein a reserve of ink will accumulate by capillary action.

The accompanying drawings show by way of example a form of execution of the invention.

Fig. 1 is a longitudinal cross-section of the end of a fountain pen provided with an extra feed device according to the invention, this cross-section being executed through line I—I of Fig. 2.

Fig. 2 is a cross-section through line II—II of Fig. 1.

Fig. 3 is a cross-section on III—III of Fig. 1.

In said drawings, the support 1 feeds the split nib 2 through the channel 3. The nib is provided with an eye 4 and above it is located a rigid member 5 which extends forwardly beyond the support 1. Said member contacts the nib over a certain length and is spaced therefrom beyond the point *a*, a little beyond the eye, and to the front of said point it assumes the shape of an oblique slope *a*—*b* forming an acute angle with the end of the nib. Between said end, and the slope *a*—*b* is formed a storage space 6 for ink which will feed the halves of the nib when they are pressed against the paper. The entrance of air is obtained through the recess 7, for instance by the small air ducts 8 and 9 which allow the air to enter laterally as shown by the arrows in Fig. 3. The flow of ink for normal writing is in the usual manner; ink also flows through the eye 4 and between the half nibs to fill the storage space so that the ink therein is available when required.

The form of execution which has just been described forms only an example of the detail features of the invention.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. A fountain pen having a supplementary ink-feed arrangement consti-

[*Price* 2/-]

tuted by a rigid projection on the body of the pen located over the nib and extending towards the top of the nib forming a small upward angle with the upper horizontal part of the pen nib, in which angle ink collects so as to ensure a reserve of ink, available whenever the nib tends to be drained by the tracing of broad lines.

2. A fountain pen incorporating an arrangement for feeding ink to the nib substantially as described with reference to and as illustrated in the accompanying drawings.

Dated this 10th day of February, 1947.

BROMHEAD & CO.,
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Fig 1

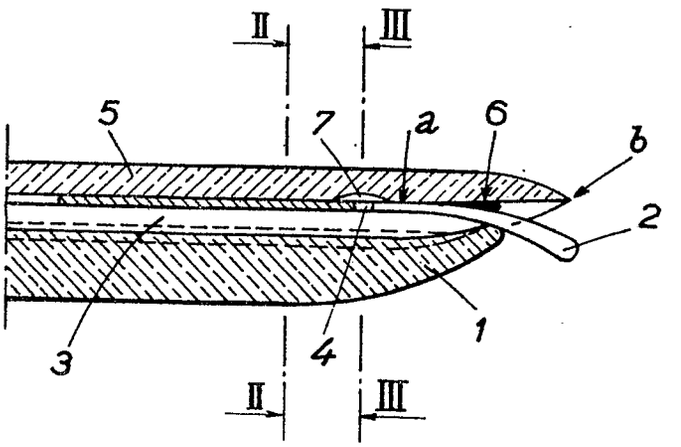


Fig. 2

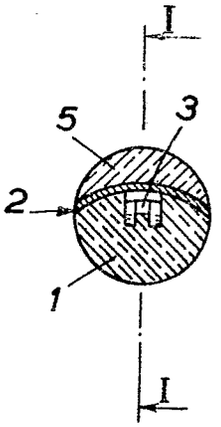
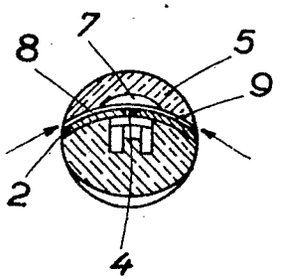


Fig. 3



H.M.S.O. (Ty.P.)