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COMPLETE SPECIFICATION.

Improvements in Ruling Pens.

I, RYOSUKE NAMIKI, a subject of the Emperor of Japan, residing at No. 16, Shichichome, Kitacho, Aoyama, in the City of Tokyo, Empire of Japan, Government Official, 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:—

This invention relates to fountain ruling pens and has for its object to effect improvements in that type of pen wherein the blades may be regulated relatively to each other without interfering with the means for regulating the supply of ink to the nib.

10 With fountain ruling pens now in use, some of which are provided with a compressible ink reservoir within the handle, a source of frequent trouble is the solidification of the ink between the blades of the pen, which retards or entirely stops the flow of ink to the pen, which defect is obviated by the present invention.

15 My improved pen comprises the known compressible tube inserted within the hollow handle of the pen to form a reservoir with means for squeezing said tube or applying pressure to a portion thereof for ejecting the contained ink. The ink passes along a passage formed in one of the pen blades, the flow being controlled by means of a set screw adapted to partially or wholly obturate the ink passage; a loose nut carried by the set screw allows the adjustment of the blades without interfering with the flow of ink.

In order that my invention may be readily understood and easily carried into practical effect I have appended hereunto a sheet of drawings illustrating the same, on which:

25 Figure 1 is a front elevation of my improved pen, with a portion of the handle broken away showing the internal rubber tube and the means for squeezing same.

Figure 2 is a longitudinal section of same and

Figure 3 is a transverse section on the line 3-3 of Figure 2.

30 On the drawings the hollow pen-handle is provided at its upper extremity with a screw or other suitable plug F, provided with a needle N. Within the handle is placed an india rubber or other suitable tube G which at one portion of its surface is engaged by a plate M integral or provided with a button H by means of which the tube G may be compressed when desired causing the liquid to flow therefrom.

35 Suitably connected to the lower extremity of the handle is the pen proper I which, as usual, is composed of a fixed blade L and a pivotal blade M connected by a set screw. The back blade is provided with a feeding passage E running to its tip and has a boss on its inner face to accommodate the set screw C.

40 The set screw C is provided at its end with a point which partially or entirely obturates the feed passage E, thus permitting it to act as a valve to regulate or cut off the flow of ink to the pen. A second nut D is placed on the screw C, thereby allowing the distance between the blades to be adjusted as required without rotating the set screw C which would alter the flow of ink.

45 When it is desired to use the pen the screwed plug F is removed and the reservoir filled with ink and the plug replaced. The set screw C is then withdrawn to the desired extent to permit the flow of the ink and the distance between the

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Namiki's Improvements in Ruling Pens.

blades adjusted by the nut D to give the desired thickness of line and the pen is then ready for use. The button H is pressed at intervals, thereby compressing the air within the tube ejecting the ink to give the desired flow at the pen.

After use the set screw C is screwed in thereby cutting off the feed of ink to the pen and thus preventing any leakage. 5

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

1. The improvements in fountain ruling or drawing pens consisting in the provision of an ink feeding passage within a blade of the pen with the means 10 for regulating or entirely preventing the flow of ink through the passage and independently regulating the distance between the two blades, substantially as set forth.

2. The improvements in fountain ruling pens comprising the formation of an ink supplying passage E, in the back or fixed blade L, communicating with 15 the reservoir and the tip of the pen; and the provision of regulating or closing means consisting of a set screw C for partially or entirely obturating the passage E, substantially as described.

3. In fountain ruling or drawing pens as in Claim 1, the improvements comprising a feeding passage E, and regulating means as C and D in combination 20 with a reservoir consisting of a hollow handle, an elastic tube within said handle, and a press button H and plate M, substantially as described.

4. The improved fountain ruling pen constructed and operating substantially as described and as shown upon the drawings.

Dated this 31st day of March, 1910. 25

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FIG 2

FIG 1

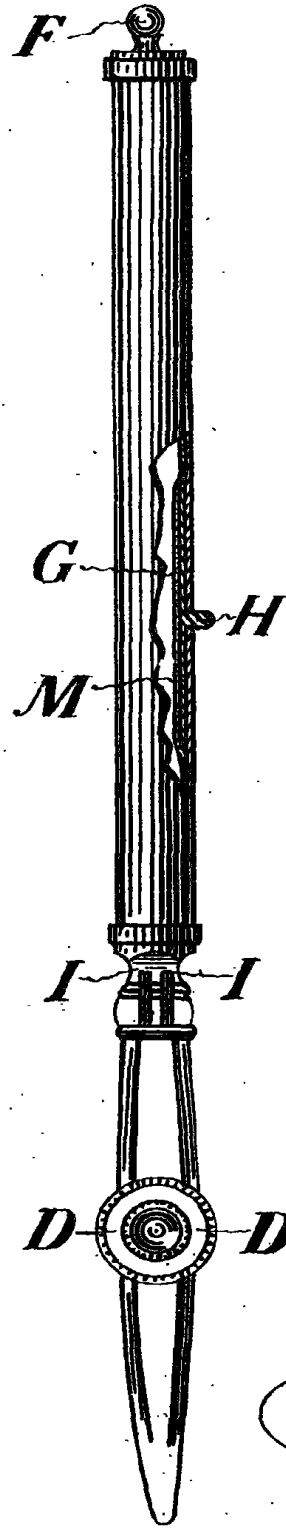
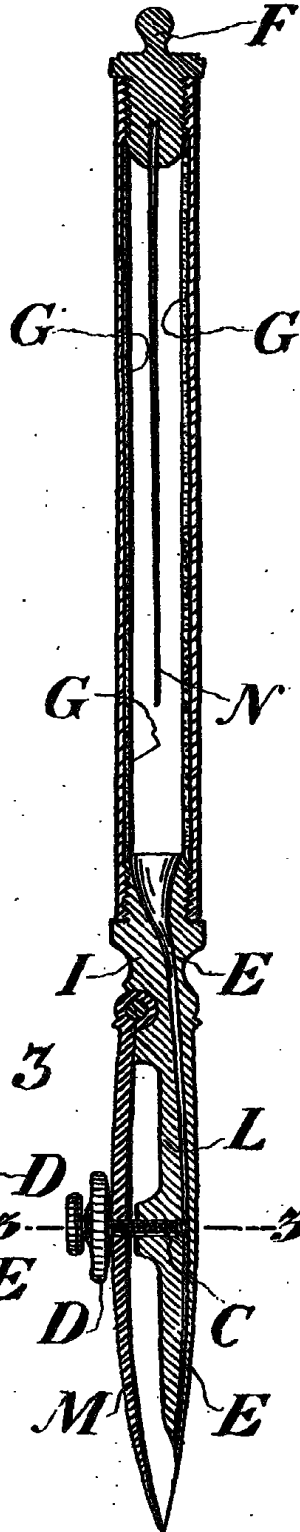
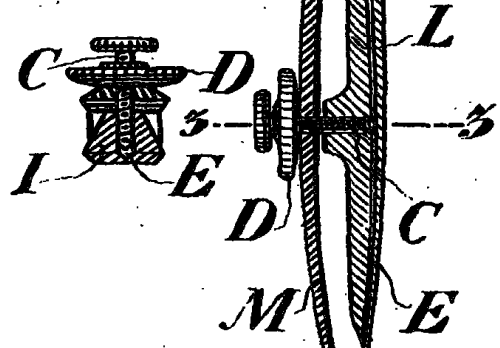


FIG 3



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[This Drawing is a full-size reproduction of the Original.]