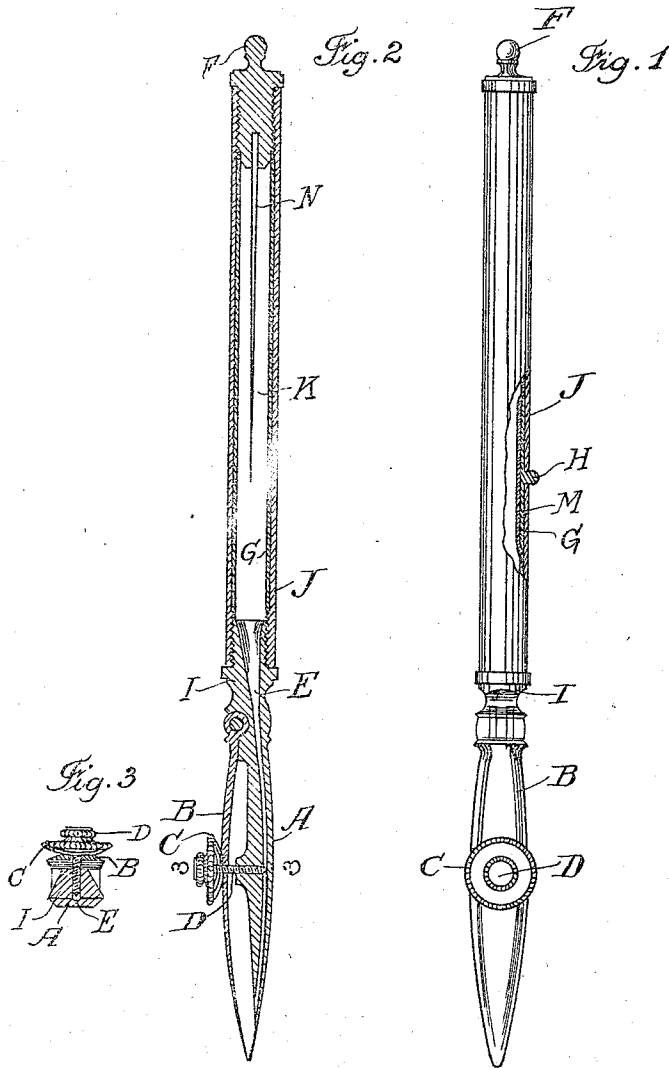


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RULING PEN.

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992,234.

Patented May 16, 1911.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

RYOSUKE NAMIKI, OF TOKYO, JAPAN.

RULING-PEN.

992,234.

Specification of Letters Patent.

Patented May 16, 1911.

Application filed March 14, 1910. Serial No. 549,249.

*To all whom it may concern:*

Be it known that I, RYOSUKE NAMIKI, a subject of the Emperor of Japan, residing at No. 16 Shichichome, Kitacho, Aoyama, city of Tokyo, Empire of Japan, have invented new and useful Improvements in Ruling-Pens, of which the following is a specification.

This invention relates to improvements in fountain or self feeding pens and relates more particularly to that class of pens known as ruling pens.

One of the principal objects of this invention is to provide means for controlling the spacing of the blades of the pen and so constructing and arranging said means as to directly control the flow of ink to the blade.

A further object of the invention is to provide an improved form of handle reservoir adapted to be readily removed for cleaning purposes or for purposes of renewal and in connection with which a button device is provided for accelerating the flow of ink. One of the features of this part of the invention being that the reservoir proper is in the form of a sleeve which lies closely against the wall of the handle so as to keep the button device in place without any auxiliary means.

Further objects and features of the invention will be more fully described in connection with the accompanying drawing and will be more particularly set forth by the appended claims.

In the drawing—Figure 1 is a view in elevation of a pen embodying one form of my invention with portions thereof broken away. Fig. 2 is a longitudinal vertical sectional view. Fig. 3 is a sectional view on line 3—3 of Fig. 2.

Like letters of reference designate similar parts throughout the different figures of the drawing.

As illustrated in the drawing, the invention is disclosed in the form of a ruling pen and one pen blade is indicated as a whole at A and the other at B. In the present construction the pen blade B is hinged to the other for the purposes of facilitating cleaning and for the usual purposes in hinging a blade of this character. The pen blade A is provided with a duct E which extends longitudinally thereof and has its discharge end located relatively close to the pen point

so as to deliver thereto. An adjusting screw D extends loosely through the blade B and has threaded engagement with the blade A. Said screw is provided on one end with a suitably formed knurled head to facilitate operation of the screw by the user. The other end of said screw D is preferably conical and projects into the duct E and thereby constitutes means for directly intercepting or controlling the flow of ink through the duct E. An adjusting nut C has threaded engagement with the shank of the screw D and is adapted to bear against the blade B to force the same toward or release it from the blade A. It will thus be seen that the device of my invention permits of allowing the ink to flow through the duct E, unrestrained, and controlled wholly by the spacing of the blades A and B, or, the ink may be partially restrained in its flow before it reaches the pen point.

The pen blade A is provided with an upper handle attaching portion I which may be reduced and peripherally threaded as shown. At the end of the threaded reduced portion the part I may be chamfered or conically formed as illustrated.

The handle portion may consist of a sleeve like member J threaded to be attached to the portion I. The outer end of the handle J is internally threaded and may be closed by plug F. As shown the plug F is provided with a cleaning needle N.

The reservoir proper may consist of a flexible sleeve G, forming the reservoir, which sleeve is open at both ends and lies closely against the inner wall of the handle J. The upper end of the sleeve G is closed by the plug F and the lower end of the sleeve G fits between the handle J and the chamfered portion of the part I.

A button device is provided and comprises portions M interposed between sleeve G and the handle J and provided with a projection H extending through an opening in the sleeve G is partially collapsed and the flow of ink, if retarded, may be forced downwardly into the duct E.

By reason of the fact that the sleeve G lies closely adjacent the wall of the handle J no auxiliary device is necessary in order to maintain the button device H and M in place. The normal form of the sleeve G is

sufficient to expand against the extension M and hold the same against the handle J, as illustrated.

It will be seen that the screw D acts as a valve for controlling the flow of ink through the duct and may also serve to space the blades and in view of the fact that it is very desirable to have ruling pens as simple and light as possible it is a great advantage to be able to utilize a single part to perform two functions.

I claim:—

1. A ruling pen comprising in combination, coacting pen blades for ruling a line, one of said blades having a duct delivering to the blade point, a handle reservoir for the ink arranged to deliver to said duct, and means for controlling the spacing of the blade and directly intercepting the flow of ink through said duct.

2. A ruling pen comprising in combination, coacting pen blades for forming a line, one of said blades having a duct delivering to the blade point, a handle reservoir for the ink arranged to deliver to said duct, a screw extending through said blades and into said

duct for controlling the flow of ink there-through, and a nut on said screw for controlling the spacing of said blades.

3. A ruling pen comprising in combination, coacting pen blades for forming a line, one of said blades having an ink duct delivering to the pen point, and valve mechanism for controlling the flow of ink through said duct and provided with means cooperating therewith for controlling the spacing of the blades.

4. A ruling pen comprising in combination, co-acting pen blades for ruling a line, one of said blades having a duct delivering to the blade point, a reservoir for ink arranged to deliver to said duct, and devices coactingly associated with each other for simultaneously controlling the spacing of the blades and directly controlling the flow of ink to said duct.

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

RYOSUKE NAMIKI.

Witnesses:

F. YASUMARA,  
GENJI KURIBARA.