

No. 874,302.

PATENTED DEC. 17, 1907.

G. H. CHAVEY.
DRAWING PEN.

APPLICATION FILED MAR. 12, 1907.

Fig. 1.

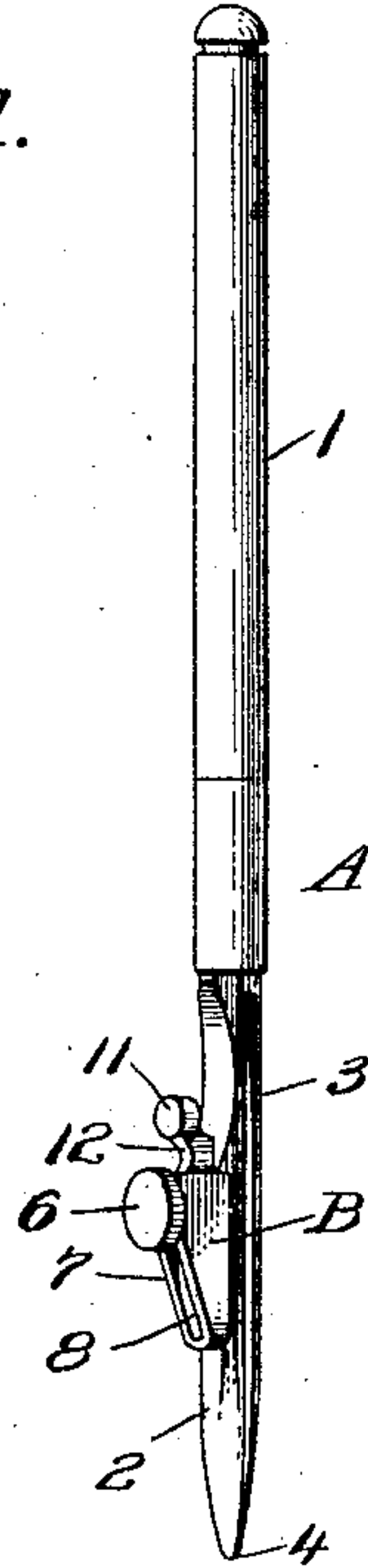


Fig. 3.

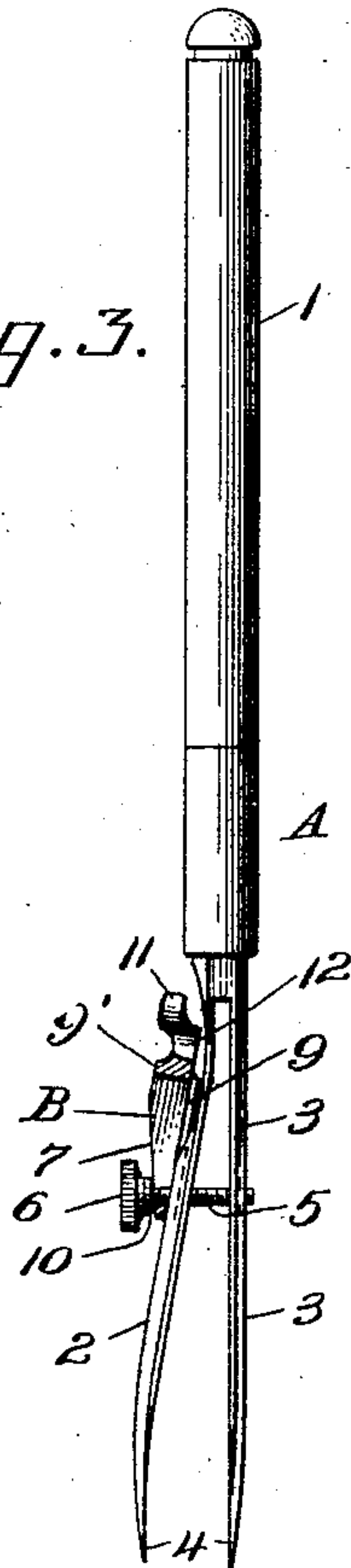


Fig. 4.

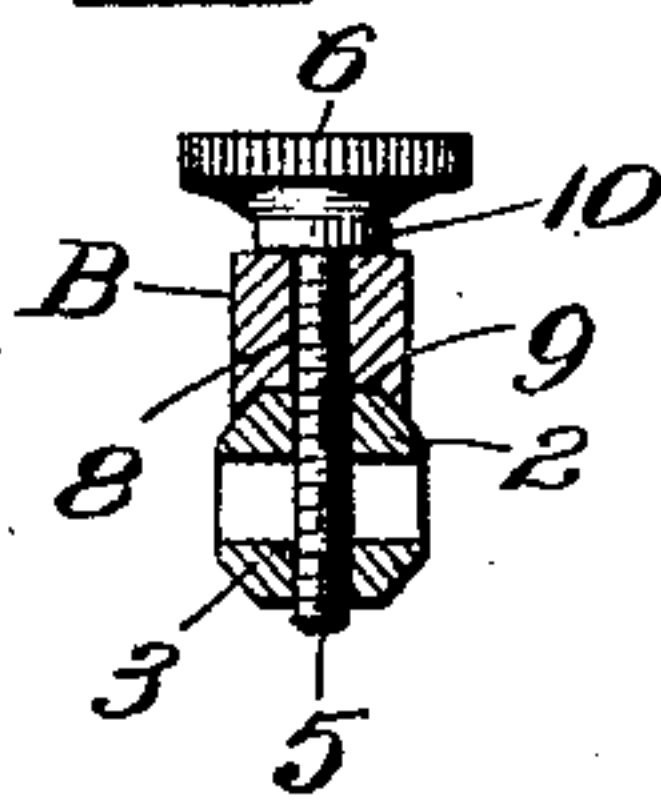


Fig. 5.

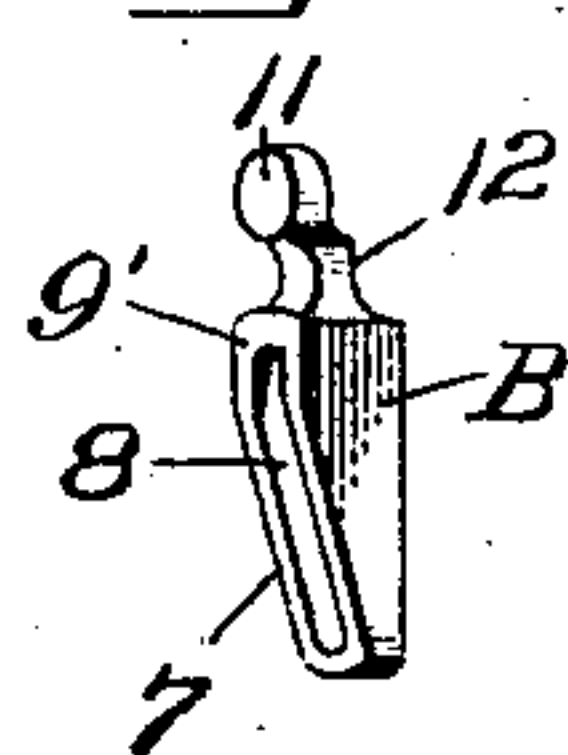
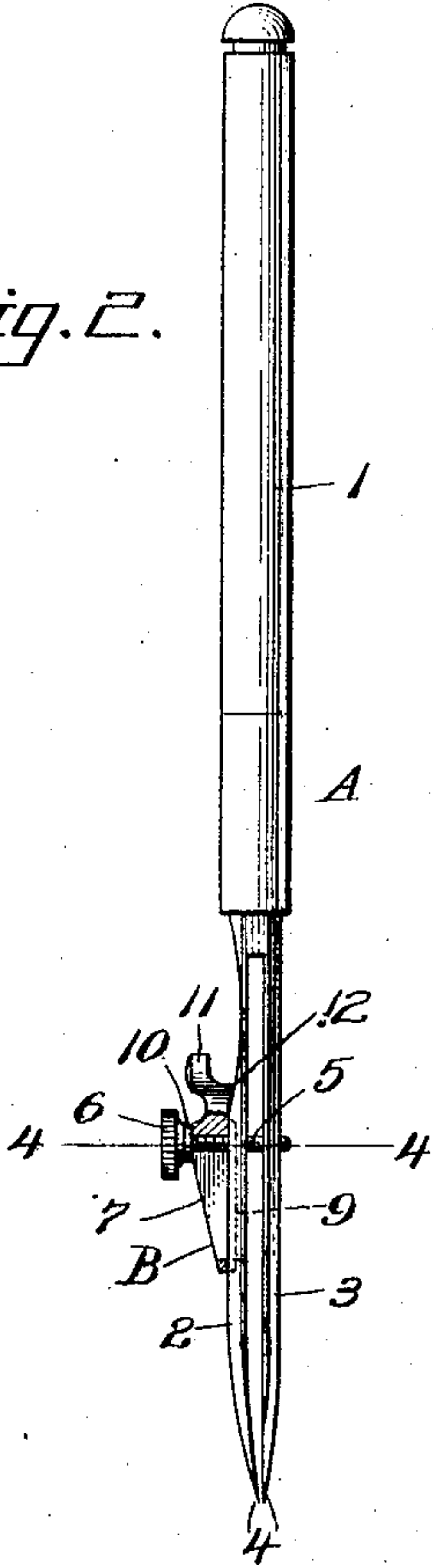


Fig. 2.



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DRAWING-PEN.

No. 874,302.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GEORGE H. CHAVEY, a citizen of the United States, residing at Winooski, in the State of Vermont, have invented new and useful Improvements in Drawing-Pens, of which the following is a specification.

This invention relates to drafting instruments and relates more particularly to improvements in ruling and other drafting pens.

The invention has for one of its objects to improve the construction of devices of this character so as to render them more convenient to use and especially to enable them to be readily manipulated in opening pen points for the cleaning of the latter.

A further object of the invention is the provision of an attachment for drafting pens whereby the points of the latter can be easily and quickly opened when it is desired to clean them and just as readily closed and restored to normal condition without requiring re-adjustment of the usual adjusting screw.

With these objects in view and others, as will appear as the description proceeds, the invention comprises the various novel features of construction and arrangement of parts which will be more fully described hereinafter and set forth with particularity in the claims appended hereto.

In the accompanying drawing, which illustrates one of the embodiments of the invention, Figure 1 is a perspective view of a ruling pen equipped with the attachment. Figs. 2 and 3 are side elevations showing the attachment in section and in closed and open position, respectively. Fig. 4 is a transverse section on line 4—4, Fig. 2. Fig. 5 is a perspective view of the attachment.

Similar reference characters are employed to designate similar parts throughout the figures.

In the present instance, I have elected to illustrate my invention in connection with a ruling pen, but it is to be understood that it can be used in connection with other drafting pens with equal facility.

Referring to the drawing, A designates a ruling pen of usual construction having a handle 1 and a pair of blades 2 and 3 terminating in pen points 4, the blades being adjusted by a screw 5 having a knurled head 6.

The attachment which may be constructed to suit pens of standard make, is preferably a metal slide block designated generally by B

and having its outer face 7 inclined so as to form a wedge at one end of the block and extending longitudinally of the latter is a slot 8 through which the adjusting screw 5 extends. The under surface 9 of the block is shaped to conform with the outer surface of the blade 2 so as to freely slide thereon and be prevented from turning about the screw as a center. At the upper end of the inclined face 7, the block is flat to form a seat 9' against which the usual washer 10 of the screw 5 engages. The upper end of the block is formed into a knob 11 connected to the body of the block by a reduced portion or shank 12. By means of this knob, the block or slide B can be engaged by the thumb in order to be raised thereby and enable the blades 2 and 3 to spring open.

In operation, the slide or block B is normally in the position shown in Fig. 2, with the adjusting screw holding the washer 10 in engagement with the flat portion or seat 9' of the block. The screw can then be adjusted to produce a line of any desired thickness in the usual manner. When it is desired to open the pen blade so as to clean the points, the knob 11 is engaged by the thumb and drawn upwardly so that the wedge portion 7 will permit the blade 2 to open. After the points are cleaned, the block B is forced outwardly or downwardly from the position shown in Fig. 3 to that shown in Fig. 2 until the washer 10 is engaged with the seat 9'. This restores the points 4 to their normal position so that re-adjustment by means of a screw 5 is obviated.

From the foregoing description, taken in connection with the accompanying drawing, the advantages of the construction and method of operation will be readily appreciated by those skilled in the art to which the invention appertains, and while I have described the principle of operation, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative and that such changes may be made when desired as are within the scope of the claims.

Having thus described the invention, what I claim is:—

1. A pen provided with a pair of blades normally tending to separate, an adjusting screw for setting the blades, and a device attached to the pen solely by the screw and co-

operating with the latter to permit the blades to be opened or closed without adjusting the screw.

2. A pen provided with a pair of blades
5 normally tending to separate, an adjusting screw for setting the blades, and a slidable member attached to the pen solely by the screw and slidable on the latter for permitting the pen blades to be quickly open or
10 closed without adjusting the screw.

3. A pen provided with a stiff and a spring blade, an adjusting screw for setting the blades, a wedge-shaped block cooperating with the screw and slidably mounted on
15 the spring blade for permitting the latter to spring away from the other blade and for moving the spring blade toward the other, and a finger knob attached to the block.

4. A pen provided with a stationary and a

spring blade, a screw for setting the blades 20 and provided with a head, a slotted slide member through the slot of which the screw extends and provided with an inclined surface forming a wedge and a flat surface forming a seat for the head of the screw, the under 25 surface of the member being shaped to conform to the outer surfaces of either the spring or stationary blade to prevent the member from turning and a finger knob secured to the end of the member opposite 30 from that having the wedge.

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

GEORGE H. CHAVEY.

Witnesses:

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K. ALLEN.