J. PAMER.

DRAWING PEN.

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970,541.

Patented Sept. 20, 1910.

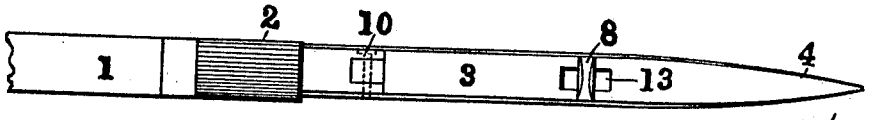


Fig. 1

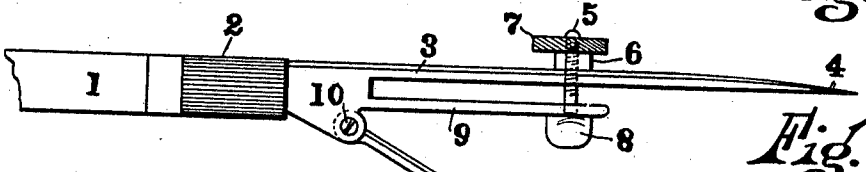
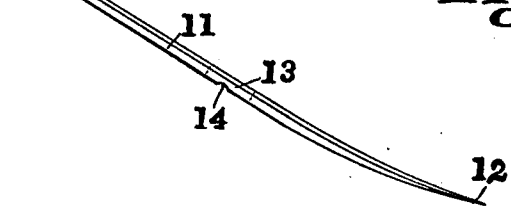


Fig. 2



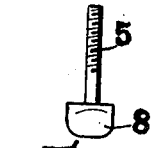


Fig. 5

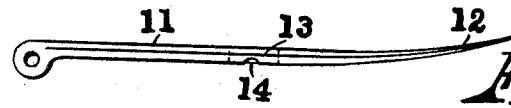


Fig. 3

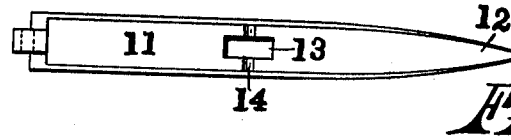


Fig. 4

Witnesses:

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DRAWING-PEN.

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To all whom it may concern:

Be it known that I, JOHN PAMER, a citizen of the United States, residing at Akron, in the county of Summit and State of Ohio, have invented new and useful Improvements in Drawing-Pens, of which the following is a specification.

This invention relates to drawing pens, bow-pens, compass-pens and the like and the object thereof is to provide a pen having a pivoted blade normally and resiliently held from contact with its companion blade and adapted to be caused to approach and recede therefrom by means of an adjusting screw, one of the ends of which is adapted to interlock or be secured to one of the blades in such a manner as to permit instantaneous separation of the blades for the purpose of ready cleaning, without interfering with or altering the desired adjustment of said blades with respect to each other.

The invention further contemplates providing a pen of any of the types heretofore mentioned embodying a pivoted blade, the position of which is adjustable with respect to its companion blade through the medium of a threaded element constructed in such a manner that the pivoted blade may be released in order to permit free separation from its companion blade, permitting of the ready cleaning of the pen and the return of said pivoted blade to normal position without interfering with the adjustment of the blades with respect to each other, the means for normally holding said pivoted blade in an adjusted position and for permitting of the release of the same temporarily being such as to securely hold the pivoted blade in a selected position against accidental displacement, but also so constructed as to be readily released when desired, without in any manner interfering with the desired adjustment of the blades with respect to each other through the medium of an adjusting screw.

With the foregoing and other objects in view, the invention consists in the novel construction, combination and arrangement of parts constituting the invention to be hereinafter specifically described and illustrated in the accompanying drawings which form a part hereof wherein is shown the preferred embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which come within the scope of the claim hereunto appended.

In the drawings in which similar reference numerals indicate like parts in the different figures: Figure 1 is a view in side elevation of a drawing pen embodying this invention. Fig. 2 is a plan of the pen shown in Fig. 1 with the blades in their open position. Fig. 3 is a plan of the pivoted blade, detached. Fig. 4 is a view in side elevation of the blade shown in Fig. 3, detached; and, Fig. 5 is a view in side elevation of a preferred form of adjusting screw.

Before entering into a detailed description of the drawings, it will be stated that for brevity the word "pen" will be used generically to designate either a drawing-pen, compass-pen, bow-pen, or other like instrumentality.

In the drawings, the reference numeral 1 denotes the handle of the pen, usually provided with a ferrule 2 customarily corrugated to insure a firm grip for the user. Extending from the handle 1 is a blade 3 provided with the usual nib 4 and perforated near its medial portion to receive an adjusting screw 5 bearing a nut 6, the outer face of which is preferably provided with a milled edge. This adjusting screw 5 is provided on its opposite end with a flat T-shaped head 8 corresponding in contour to the conventional type of head employed on thumb screws and preferably much thinner in one direction than in the other.

Preferably formed integral with the blade 3 is a member 9 provided near its outer end with an aperture to receive the adjusting screw 5. This member 9 is sufficiently resilient to permit the outer end thereof to be sprung inwardly toward the blade 3 when desired, for a purpose to be later described. Pivotally-mounted in the base portion of the blade 3, through the medium of a screw 10, is a pivoted blade 11 provided at its outer end with a nib 12 and near its medial portion with a longitudinally-extending slot 13 to receive the head 8 of the adjusting screw 5 when forced inwardly toward the blade 3 when the head is in the position shown in Fig. 2. The outer face of the pivoted blade 11 is provided with a shallow transverse groove 14 intersecting the slot 13, for a purpose to be later described.

In adjusting this pen for use the head 8 of the adjusting screw 5 is arranged as

shown in Fig. 2 and the pivoted blade 11 swung toward the blade 3, in doing which the head 8 passes through the slot 13 and the inner face of the pivoted blade 11 engages the outer face of the member 9 and by continued pressure on the blade 11 the member 9 is sprung sufficiently to permit the head 8 to extend through the slot 13 far enough to permit the former to be given a quarter turn to lock the two elements together and cause the inner face of the head to seat in the transverse groove 14 which effectually locks it against unintentional displacement, after which the distance between the points 4 and 12 of the blades of the pen may be adjusted to suit the requirements of the user, and thereafter the pen is used in the ordinary manner.

When desired to clean the pen and afterward return the blades to their adjusted position, the head 8 of the adjusting screw 5 is given a quarter turn to bring the former into alinement with the slot 13, thus permitting the pivoted blade to be swung away from its companion blade and allowing access to the interior of the blades for cleaning or any other purpose, after which the pivoted blade is returned to its closed position in the manner already described and the adjustment of the two blades with respect to each other will be identical with the adjustment existing previous to the separation. It will be noted that the member 9 constitutes a resilient or spring member tending to cause said pivoted blade to separate from its companion blade, but the spring influence of the member 9 is easily overcome by the adjusting screw or manual pressure from the user of the device, sufficiently to permit the interlocking of the head 8 in the transverse groove 14.

I claim:

A drawing pen having a fixed and a pivoted blade, the latter acted upon by a resilient element tending to cause the separation of said blades but permitting their approach, said fixed blade and resilient element each provided with alined apertures, an adjusting screw mounted in said apertures and provided with a T-shaped head, said pivoted blade provided with a slot to receive said T-shaped head, the latter constituting means when partially rotated for holding said pivoted blade in an adjusted position with respect to said fixed blade.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN PAMER.

Witnesses:

GLENARA FOX,

C. E. HUMPHREY.