

(No Model.)

V. BERDELLE.
DRAWING PEN.

No. 532,754.

Patented Jan. 22, 1895.

Fig. 1

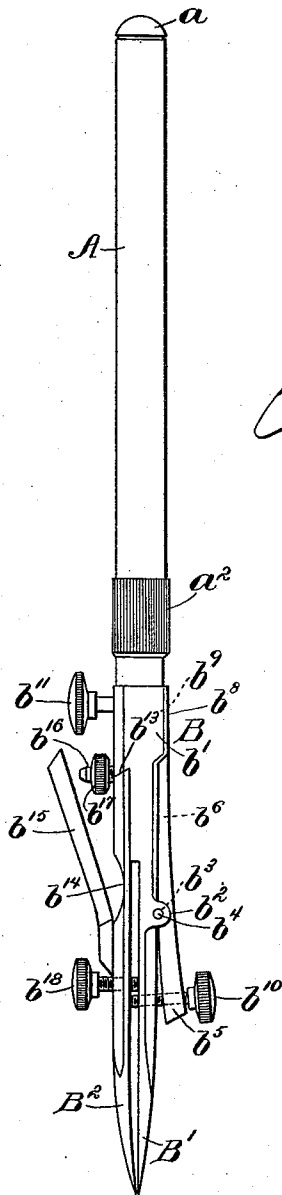
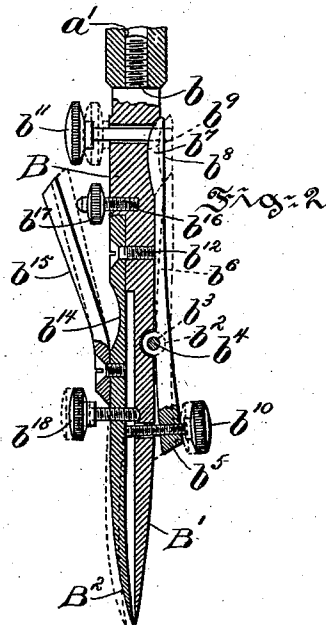
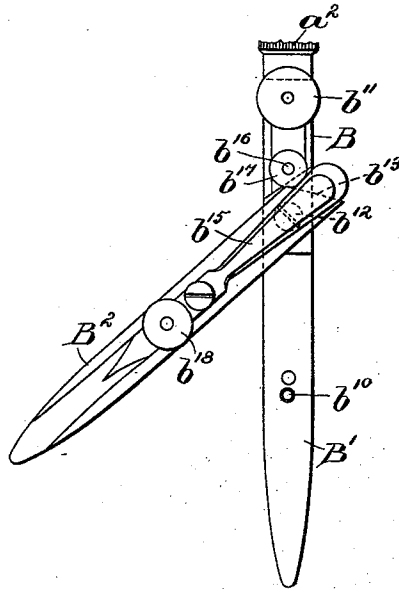


Fig. 3



Witnesses:
Thomas M. Smith,
Richard C. Maxwell.

Inventor,
Victor Berdelle,
By Walter Douglas,
attorney.

UNITED STATES PATENT OFFICE.

VICTOR BERDELLE, OF PHILADELPHIA, PENNSYLVANIA.

DRAWING-PEN.

SPECIFICATION forming part of Letters Patent No. 532,754, dated January 22, 1895.

Application filed May 22, 1894. Serial No. 612,039. (No model.)

To all whom it may concern:

Be it known that I, VICTOR BERDELLE, a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Drawing-Pens, of which the following is a specification.

My invention has relation to drawing or ruling pens; and it relates more particularly to the construction and arrangement of such a pen, whereby certain adjustable movements of the same in use are obtained.

The principal objects of my invention are, first, to provide a simple, durable and effective drawing or ruling pen; second, to provide a ruling or drawing pen having one of the blades thereof arranged so as to permit of a sliding movement of the same to permit of cleaning the inner surfaces of the blades of the instrument; third, to provide a drawing or ruling pen with a stock having two blades, one being integral with the stock and the other engaging obliquely and pivoted to the stock, the blades normally approaching each other at the points thereof, a projecting-arm secured to the pivotal blade to permit of a sidewise movement of the same from the other of the blades to afford a cleaning of the inner surfaces of both of the blades and an adjusting screw secured into the stock and adapted to limit the range of movement of the projecting arm; fourth, to provide a drawing or ruling pen with a spring metal blade provided with a regulating back stop and lever arm for parting the blades of the instrument and a screw or the like for setting the blades with respect to each other, and, fifth, to provide a drawing or ruling pen having means connected therewith to secure different adjustable movements of the blades and one of said blades arranged to permit of a sidewise movement to clean the inner surfaces of the blades of the instrument.

My invention consists of a drawing or ruling pen constructed, arranged and adapted for operation in substantially the manner hereinafter described and claimed.

The nature and scope of my invention will be more fully understood from the following description taken in connection with the accompanying drawings, forming part hereof, and in which—

Figure 1, is a side elevational view of a drawing or ruling pen, embodying the features of my invention. Fig. 2, is a view partly in vertical central section and partly in side elevation of a pen with the staff or handle thereof broken off; and Fig. 3, is an end plan view of the blades of the instrument with one of them occupying its distended position, showing the inner surfaces of the respective blades of the instrument in position for cleaning.

Referring to the drawings A, is the handle or staff of aluminium or other suitable metal having the upper end rounded off at *a*, and the lower end bored out and threaded at *a'*, as illustrated in Fig. 2, to form a bearing or seat for a threaded shank *b*, of a stock or body B.

The lower portion of the stem or handle A, has a circumferential middle surface at *a'*, so as to permit of the securing of the threaded shank firmly to position in the threaded bore of the stem or handle A.

The stock or body B, has formed integral therewith at the rear thereof on both sides lugs *b'*, forming a channel *b''*, for a purpose to be presently explained; and also integral therewith is a blade B', of convex form tapering to the outer extremity of the same and with both sides beyond the stock or body B, of this blade provided with lugs *b''*, having openings *b'''*, therein for the pivot or pin *b''''*, of a fulcrumed lever *b'''''*, having a recessed body *b''''''*, an enlarged and rounded front extremity *b'''''''*, and a rear rectangular-shaped end *b''''''''*, loosely engaging in the complemental channel *b'''''''''*, adapted therefor. *b''''''''''*, is a set or adjusting screw extending through the forward end of said fulcrumed lever *b'''''''''*, and the body of the fixed blade B', and arranged so as to be brought into contact with the opposing blade B'', in engagement with the stock B, and arranged so as to slide sidewise thereof to permit of the ready cleaning of the inner surfaces of both blades of the instrument.

b''''''''''', is a stud or press pin engaging through a slot in the rear portion of the stock B, with the fulcrumed lever *b'''''''''*, which is adapted to manipulate said lever *b'''''''''*, in up and down directions so as to spread the blades apart a required distance from each other. The spring metal blade B'', of the instrument, is secured to the stock B, by means of a stud or screw *b'''''''''''*, and which stock B, is cut away obliquely

in order to accommodate the complementary oblique end b^{13} , of the said blade B^2 , as illustrated in Figs. 1 and 3, and which blade is provided with an arched recess b^{14} , in the body thereof, in order to give a spring action to the same and tapers therefrom to the outer end thereof and normally contacting with the opposite outer extremity of the blade B' . This blade is provided with a flaring or bent arm b^{15} , rigidly secured thereto, and in rear of the same and in engagement with said stock B , is a threaded back stop b^{16} , which by means of a nut b^{17} , mounted thereon is adapted to limit the movement of the blades B^2 from the blade B' , through the intervention of the flaring or bent arm b^{15} . The forward portion of the blade B^2 , is provided with an adjusting screw b^{18} , extending through the body of said blade and adapted to permit of the required adjustment of the respective blades with respect to each other, in the actuation of the blade B^2 , with respect to the blade B' , by means of said arm b^{15} , controlled as to its movement by the threaded back-stop b^{16} , by means of the nut b^{17} , afforded a range of movement in up and down directions thereon.

In use, for cleaning the inner surfaces of the blades, the spring blade B^2 , is simply slid by hand sidewise on the screw or pivot b^{12} , so as to occupy the position illustrated in Fig. 3, and when one surface is cleaned that of the other blade may be cleaned by reversing the position of the instrument, as will be readily understood; and the respective blades then restored to their normal positions with respect to each other and with the outer extremities in contact with one another as illustrated in Fig. 1, of the drawings.

For effecting a certain character of work by a slight pressure exerted on the arm b^{15} , the spring blade B^2 , may be caused to assume the required position away from the fixed blade B' , of the instrument, and if necessary, held firmly in such position by means of the adjusting screw b^{18} , connected with the forward portion of the spring metal blade B^2 . For effecting another character of work by a slight pressure exerted on the stop or press-stud of the fulcrumed lever b^5 , the same will be actuated to cause the blade B^2 , to assume the required position away from contact with the blade B' , and locked to such position by means of the adjusting screw b^{10} .

It will be manifestly obvious that as to minor details modifications may be made as to the arrangement of the parts of the pen hereinbefore described; and hence I do not wish to be understood as limiting myself to the precise arrangement of the several parts for the performance of the functions explained; but,

Having thus described the nature and objects of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A drawing pen provided with a handle

or staff having a stock with a blade provided with a fulcrumed lever and an adjusting screw, a spring blade connected with said stock and having a regulating back stop connected therewith and a lever and an adjusting screw connected with said blade, substantially as and for the purposes set forth.

2. A drawing pen having a handle provided with a stock having two blades, whereof one is fixed and provided with a fulcrumed lever, and whereof the other is adapted to be parted from said fixed blade by said lever, and said blades adjusted with respect to each other by means of a stud-screw, substantially as and for the purposes set forth.

3. A drawing pen provided with a staff or handle having a removable stock with an integral blade, a lever fulcrumed thereto and provided at one end with a press-stud and at the other end with an adjusting screw, a complementary spring blade obliquely engaging said stock and provided with an adjusting screw and said blade adapted to be moved sidewise of said stock, substantially as and for the purposes set forth.

4. A drawing pen provided with a staff or handle removably connected with a stock having a rear channel and side lugs, a lever fulcrumed to said lugs and provided with a press-stud and an adjusting screw, a complementary spring metal blade in sliding engagement with said stock having a threaded stem with an adjusting nut, and a curved or bent arm rigidly secured to said spring metal blade, and an adjusting screw, substantially as and for the purposes set forth.

5. A drawing pen having two blades normally contacting with each other, whereof one is provided with an adjusting screw, a fixed lever connected with said blade, and whereof the other is provided with a fulcrumed lever having at one end a press-stud and at the other end an adjusting screw extending through said blade, substantially as and for the purposes set forth.

6. A drawing pen provided with a stock having two blades, whereof one is formed integral with said stock and whereof the other engages obliquely and is pivoted to said stock and both of said blades normally approaching each other at the points thereof, a projecting arm secured to said pivotal blade to move the same sidewise from the other of said blades to permit of the cleaning of the inner surfaces of both of said blades and an adjusting screw secured into said stock and adapted to limit the range of up and down movement of said arm, substantially as set forth.

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

VICTOR BERDELLE.

Witnesses:

THOMAS M. SMITH,
RICHARD C. MAXWELL.