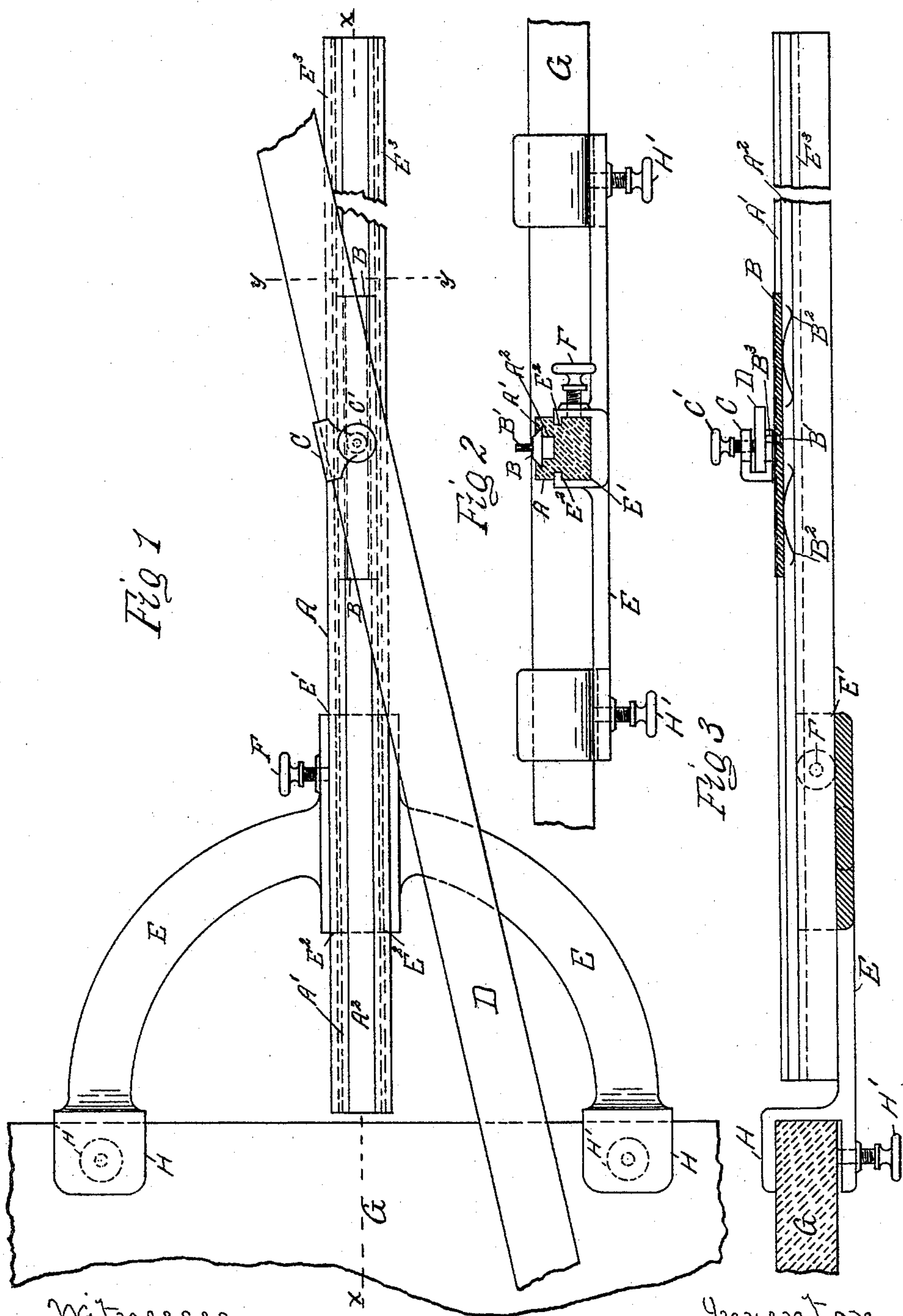


(No Model.)

C. URICH.  
DRAFTSMAN'S TOOL.

No. 497,147.

Patented May 9, 1893.



Witnesses  
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# UNITED STATES PATENT OFFICE.

CHARLES URICH, OF PATERSON, NEW JERSEY.

## DRAFTSMAN'S TOOL.

SPECIFICATION forming part of Letters Patent No. 497,147, dated May 9, 1893.

Application filed November 21, 1892. Serial No. 452,704. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES URICH, of the city of Paterson, in the county of Passaic and State of New Jersey, have invented a certain  
5 new and useful Improvement in a Lineator or Draftsman's Tool for Use in Perspective Drawing, of which the following is a specification.

The object of my invention is to provide a  
10 tool, to be used by draftsmen for perspective drawing, which will enable a draftsman to have his work close to him and obviate the necessity of reaching or stretching over a large table while drawing, and which will do away with  
15 the necessity of having a large table; thus saving space which can be used for other purposes, and which from its simplicity of construction and ease of operation will greatly facilitate the execution of perspective draw-  
20 ings.

My invention consists of a sliding grooved bar secured to, and sliding on, a semi-circular bracket provided at each end with a foot to fit the table, to which it may be secured by  
25 thumbscrews or other proper devices. The sliding grooved bar passes through a socket in the central part of the bracket which is provided with projections to fit into longitudinal grooves of said bar. The bar may be secured in  
30 said socket by means of a thumb screw or otherwise. The top of said bar is also provided with a longitudinal groove adapted to receive a metal slide with springs beneath the same, said slide being provided with a pin which  
35 projects above the upper surface of the same and forms the station or vanishing point in perspective drawing. To said metal slide and on top of the same is secured a ruler, by means of a clamp, the clamp being provided  
40 with an opening for the station pin to pass through.

In the accompanying drawings, in which similar letters of reference indicate like parts:—  
45 Figure 1, is a plan view of my perspective lineator, or tool for draftsmen for perspective drawing. Fig. 2, is an end view, part sectional through the line Y. Y., of Fig. 1 of my invention, showing bar in position in socket, and metal slide, provided with pin, in longitudinal groove on top of said bar and method  
50 of securing bracket to drawing table. Fig. 3,

is a side view, part sectional, through line X X, of my invention.

The semicircular metal bracket E is provided at each end with a fork H for receiving the edge of a drawing board G and each  
55 fork H has a binding screw H'. On said bracket a metal rocket E' is formed which has inwardly projecting flanges on the upper edges of its sides, which flanges enter longitudinal  
60 grooves A in the sides of the wood rod A and guide and hold said rod, the rod being locked in place by the clamping screw F on the side of the rocket. A slide B guided in and on the  
65 top of the rod A is provided on its under side with two springs B<sup>2</sup> for holding it in the desired place on the rod A which springs travel in a longitudinal groove A<sup>2</sup> in the top of the rod. A clamp C having a clamping screw C'  
70 is mounted on a pivot pin B' passing through a hole B<sup>3</sup> in the bottom of the clamp C. The device is applied on the drawing board as shown so that its central longitudinal line is a continuation of the horizon line of the perspective to be made and the ruler D is placed  
75 in the clamp C and locked to same by means of the screw C'. The slide B is then moved along the rod A until it is at the vanishing point of the perspective. Then the ruler is inclined up or down to the several points on  
80 the drawings and all lines drawn along the ruler will run to the vanishing point.

The device can be easily adjusted for any desired vanishing point at either side, top or  
85 bottom of the board.

By varying the size or length of the bracket E; or by using bars and rulers of various lengths the draftsman may regulate the device to size required by drawings.

With this description of my invention, what  
90 I claim is—

1. A lineator, or tool for executing perspective drawings, consisting of a sliding bar of suitable material provided with longitudinal grooves on either side thereof, a bracket pro-  
95 vided with forks to fit on the edge of drawing board or table to which they may be secured in any appropriate manner, said bracket being provided with a socket having flanges to fit into longitudinal grooves of said bar, 100  
said bar being also provided with a longitudinal groove on top adapted to receive a metal



slide with springs beneath the same, a metal slide provided with a projecting pin, to constitute the station or vanishing point, said slide being adapted to move in said longitudinal slot on top of said bar, springs in said longitudinal slot beneath said metal slide, and a ruler secured to said metal slide or to said bar by means of a clamp permitting said ruler to be swung at any desired angle from said grooved sliding bar, all as shown and described and for the purposes specified.

2. In a lineator or new tool for executing perspective drawings a bracket provided with forks to fit on to and be secured to the edge of a drawing board or table, said bracket also provided with a socket having flanges to fit into longitudinal grooves on either side of a sliding bar in combination with a sliding bar having longitudinal grooves on either side and a longitudinal groove on top thereof, an adjustable ruler secured to said bar and adapted to be swung at any angle desired therefrom, a vanishing point or station, located at any point on said sliding bar, all constructed substantially as shown and described and for the purpose specified.

3. In an adjustable lineator or tool for perspective drawing a ruler D in combination

with a bar A having grooves A' A<sup>2</sup>, the metal slide B having pin B', springs B<sup>2</sup>, clamp C having opening B<sup>3</sup> and thumb screw C', all constructed substantially as shown and described and for the purposes specified.

4. In an adjustable lineator or tool for perspective drawing, a ruler D, and sliding bar A provided with longitudinal grooves on either side thereof in combination with a bracket, E provided with forks H. H. adapted to be secured to the edge of a drawing board or table and with a socket E' to receive said sliding bar A, said socket provided with the flanges E<sup>2</sup> to fit into longitudinal grooves on either side of said bar, all constructed substantially as shown and described.

5. The combination with a bracket and means for locking it on the edge of drawing board or table of a rod held adjustably on said bracket, a slide on said rod, a clamp pivoted on said slide and a ruler placed into said clamp, substantially as shown and described and for the purposes specified.

CHARLES URICH.

Witnesses:

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