

(No Model.)

2 Sheets—Sheet 1.

D. K. WADE.
DELINEATOR.

No. 395,724.

Patented Jan. 8, 1889.

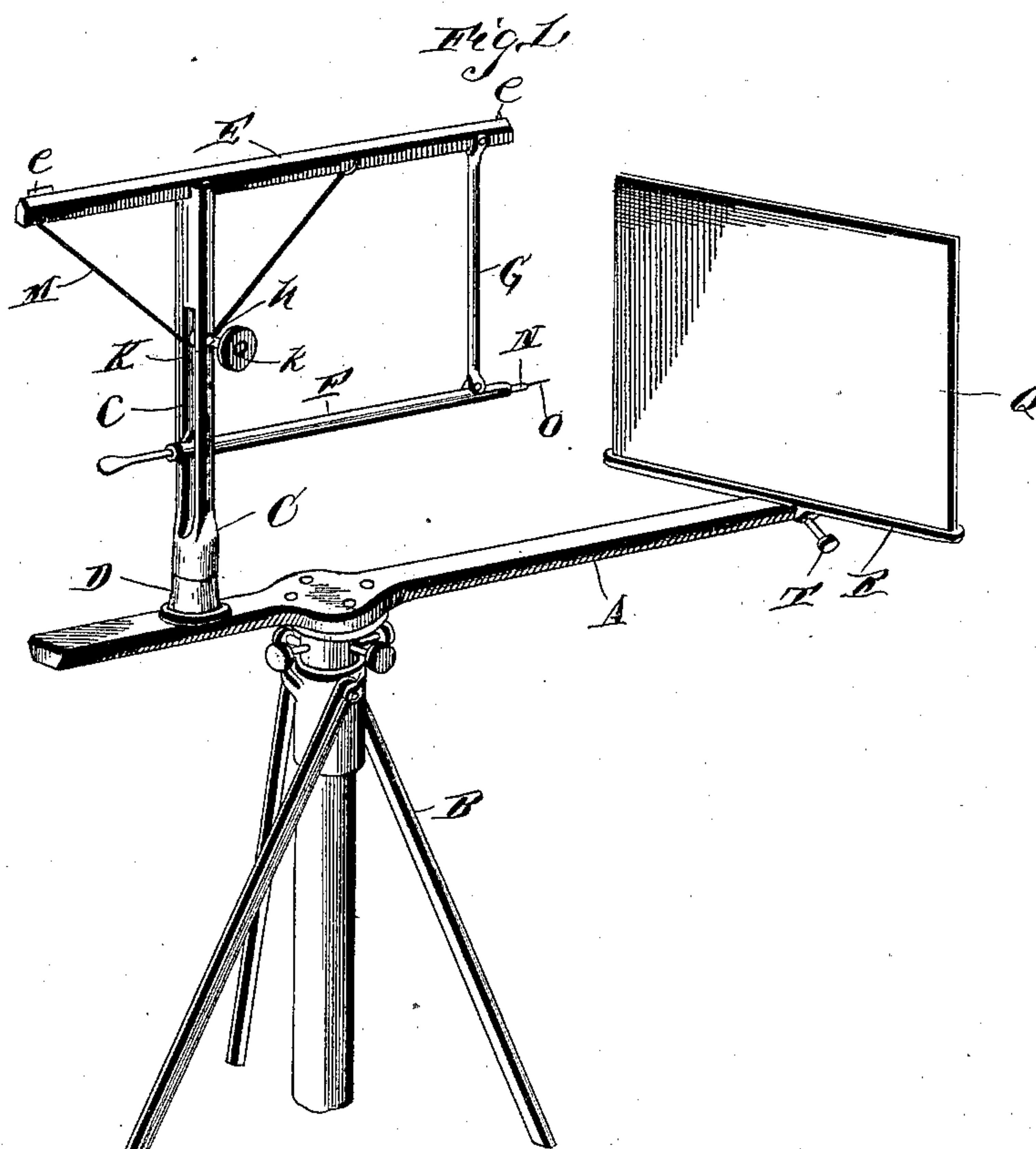
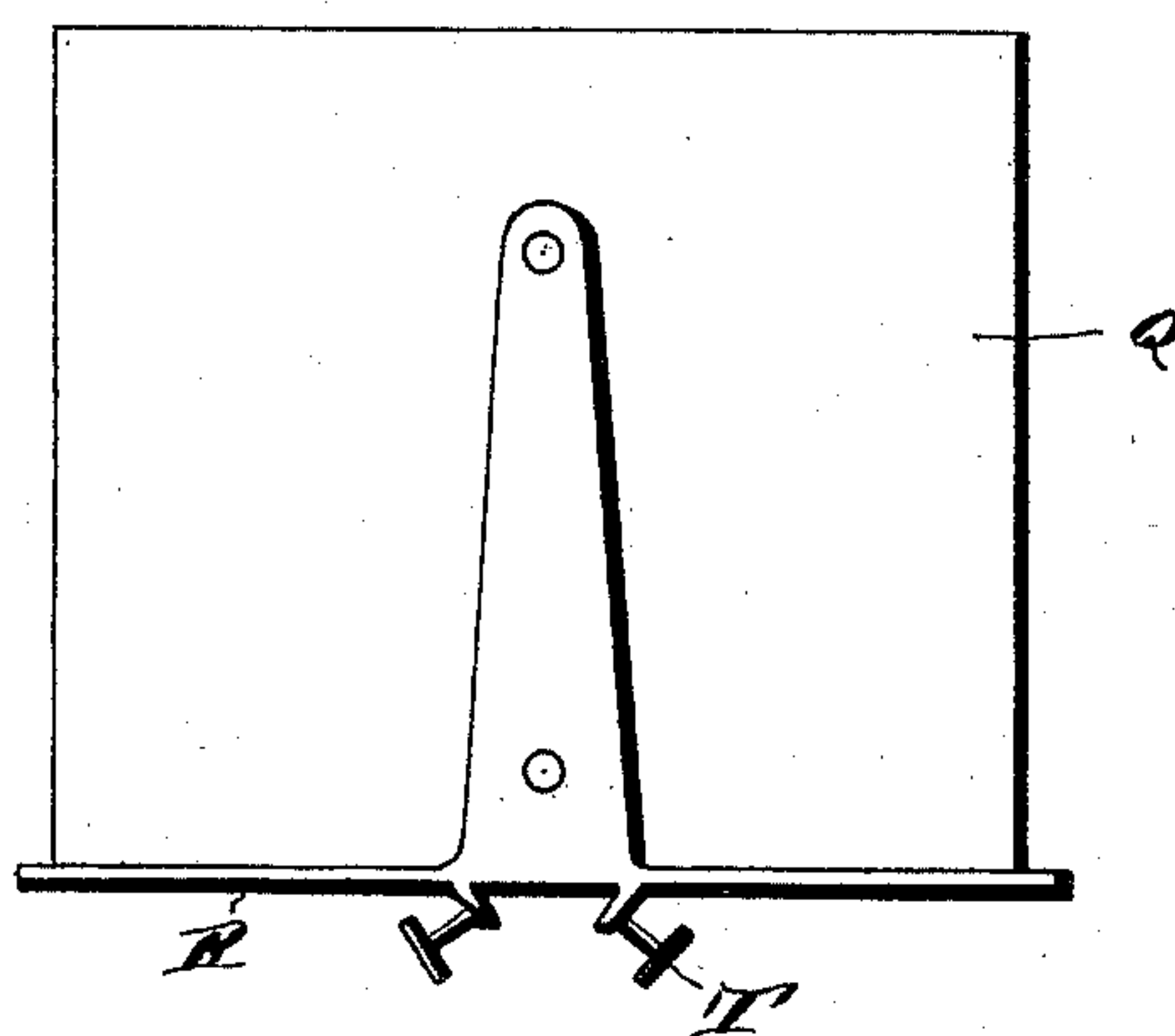


Fig. 2.



Witnesses

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C. C. Doyle

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By *his* Attorneys

C. A. Howard

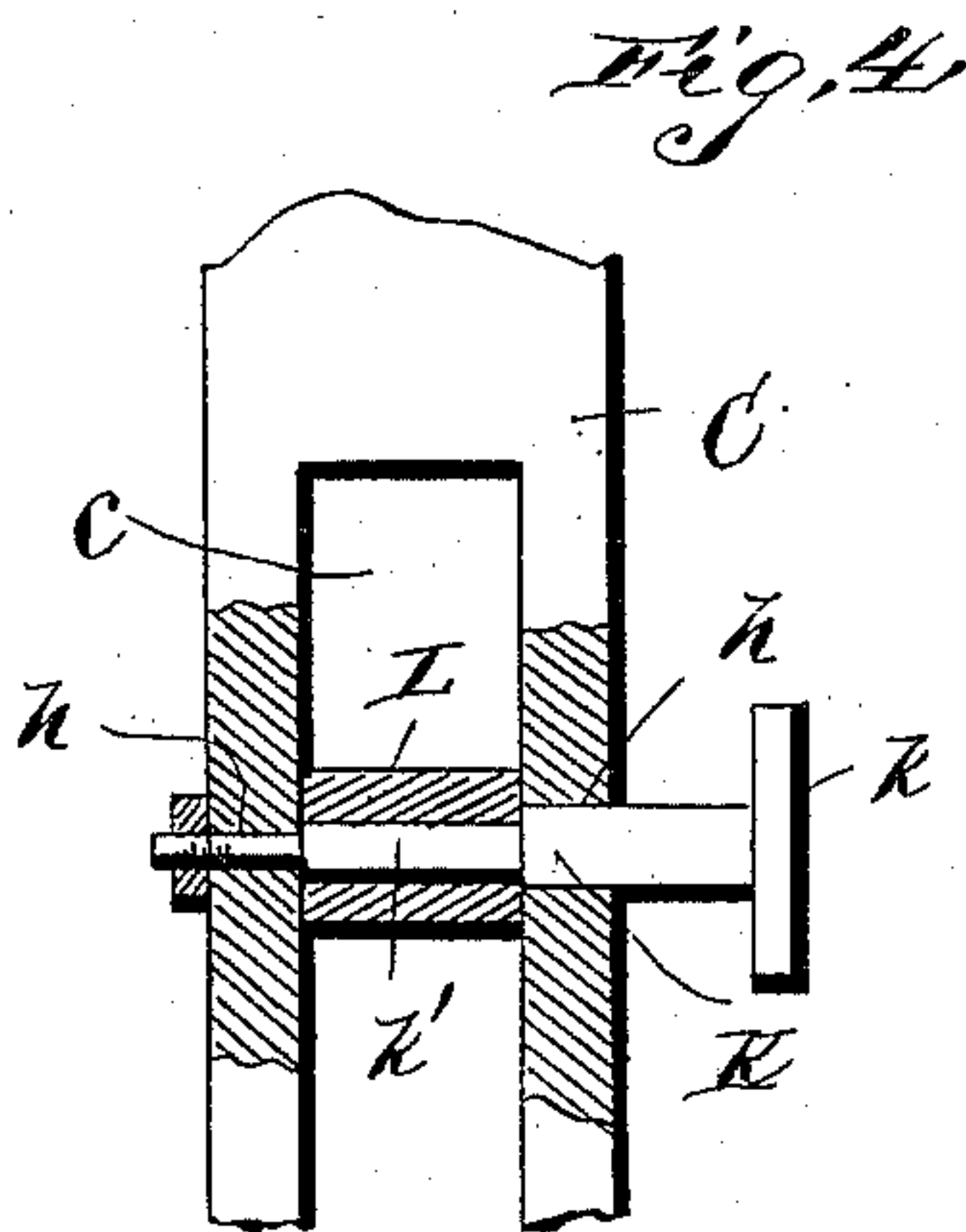
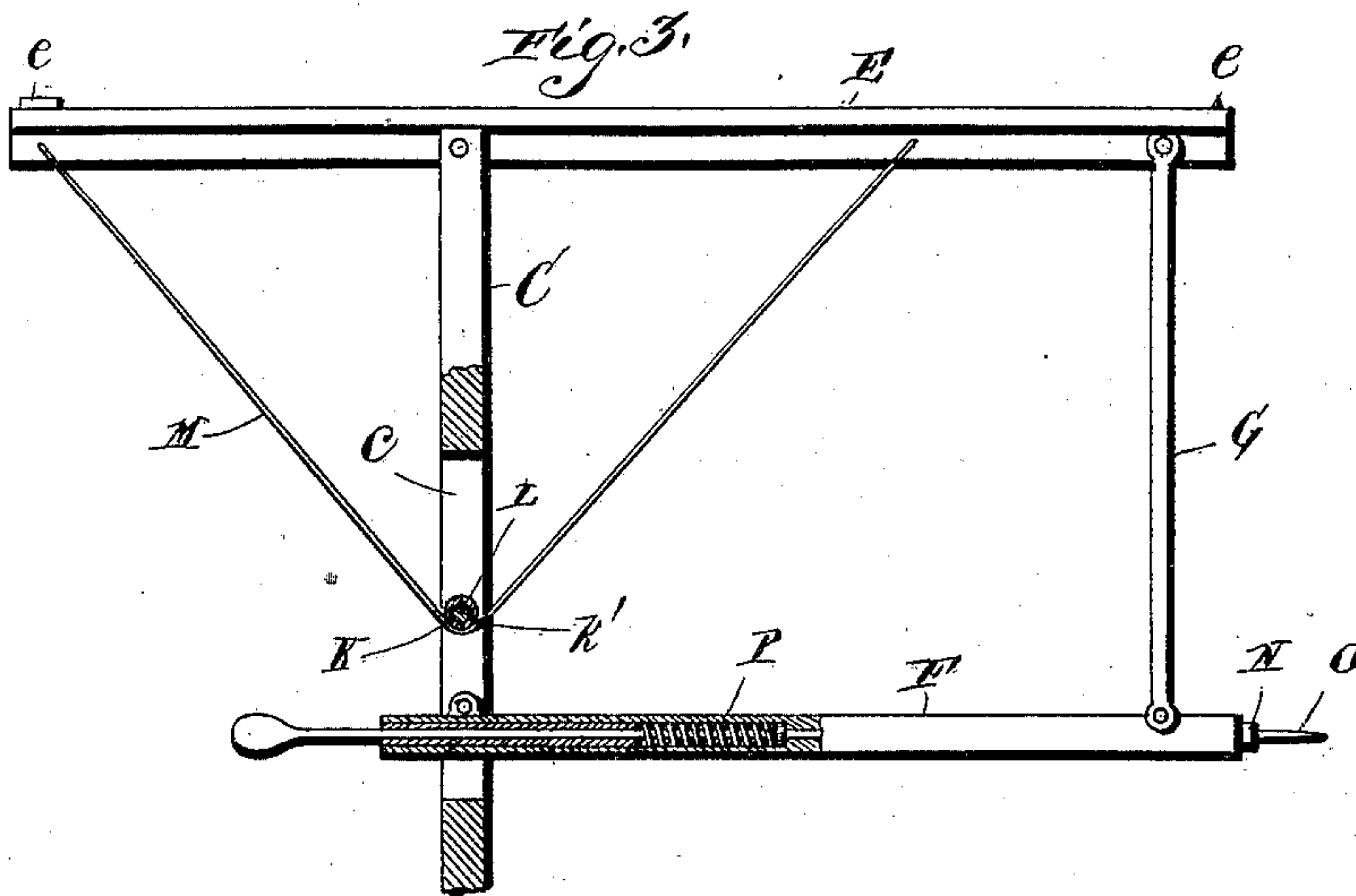
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2 Sheets—Sheet 2.

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No. 395,724.

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G. B. Taylor,
A. E. Doyle

Inventor,

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C. A. Snow

UNITED STATES PATENT OFFICE.

DAVID K. WADE, OF McPHERSON, KANSAS.

DELINEATOR.

SPECIFICATION forming part of Letters Patent No. 395,724, dated January 8, 1889.

Application filed July 20, 1888. Serial No. 280,488. (No model.)

To all whom it may concern:

Be it known that I, DAVID K. WADE, a citizen of the United States, residing at McPherson, in the county of McPherson and State of Kansas, have invented a new and useful Improvement in Delineators, of which the following is a specification.

My invention relates to a delineator designed to enable an object or group of objects at a distance to be accurately delineated upon paper; and it consists in a certain novel construction and combination of devices, fully set forth hereinafter, and specifically pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of the device in operative position. Fig. 2 is a front view of the drawing-board, to show the manner of attaching the same to the base-plate. Fig. 3 is a side view of a portion of the device, partly in section. Fig. 4 is a vertical transverse sectional view of the vertical shaft.

Referring by letter to the drawings, A designates a base plate or bar, which is dovetailed in section and is arranged on a suitable tripod or stand, B; and C designates a vertical standard, which is mounted at its lower end in a socket, D, on the base plate or bar near its rear end.

A sight-bar, E, which is provided at its opposite ends with suitable sights, *ee*, is mounted at an intermediate point in a fork in the upper end of the standard; and F represents a tubular arm, which is mounted at its rear end in a vertical slot, *c*, in the standard. The adjacent free ends of the tubular arm and sight bar are connected by the rod G in such a way as to maintain the said arm and bar parallel with each other.

In suitable registering bearings, *h h*, in opposite sides of the slot *c*, is mounted a spindle, K, which is provided on one end with a thumb-wheel, *k*, to enable the spindle to be turned at will; and L represents a small drum which fits on a squared portion, *k'*, of the said spindle, whereby the drum may be turned by means of the thumb-wheel.

M represents a cord, which is affixed at its ends to the sight-bar on opposite sides of the standard and passes at an intermediate point once or twice around the drum L. It will be seen that by turning the spindle the cord M

is operated so as to elevate or depress the front end of the sight, to enable the same to be directed toward any object in a given vertical plane, and as the standard is swiveled the sight-bar may be swung around freely to enable the entire field to be covered.

N represents a pointer, which is arranged in the tubular arm F, and is provided on its front end with a pencil or crayon, O, which is adapted to trace the outline of an object on a suitable surface, and in the tubular arm is arranged a coiled spring, P, which bears against a shoulder or collar, *p*, on the pointer and presses the latter forward.

Q represents a vertical board, which is provided at its lower edge with a casting, R, having a notch at its lower end, which slides on the dovetailed base plate or bar; and T represents small thumb-screws which are mounted in the sides of the said notch and bear at their inner ends against the plate or bar, to enable the vertical board to be locked in the desired position. It will be seen that means are thus provided to enable the vertical board to which the drawing-paper is adapted to be applied to be arranged at any desired distance from the vertical shaft C.

The operation of the device is as follows: Having adjusted the tripod in the desired position, the sight-bar is successively directed toward different salient points of the object to be represented, and the pencil or crayon is allowed to make suitable marks at the various positions of the sight-bar; or the outline of the said object may be followed by the sight-bar, while the point of the crayon or pencil is in contact with the surface of the paper on the board, thereby drawing the outline of the said object on the paper.

The size of the drawing in proportion to the size of the original or the object represented depends upon the distance of the drawing device from the object and the distance of the vertical board from the standard C, as will be readily understood.

Having thus described the invention, I claim—

1. In a delineator, the combination of a standard mounted in a suitable socket, the sight-bar mounted on the upper end of the standard, the tubular arm pivoted at one end to the standard and connected at the other end

to the free end of the sight-bar, whereby the tubular arm and the sight-bar are held parallel, and the pointer arranged in the tubular arm and provided at its front end with a suitable pencil or crayon adapted to bear against a vertical surface, substantially as specified.

2. In a delineator, the combination, with a base plate or bar arranged on a suitable stand or tripod and the vertical board longitudinally adjustable on the said plate or bar, of the standard mounted in a suitable socket on the base plate or bar, the sight-bar mounted on the upper end of the standard, the tubular arm pivoted to the standard at one end and connected by a suitable rod to the free end of the sight-bar, and the spring-actuated pointer mounted in the tubular arm and provided with a pencil or crayon adapted to bear against the said board, substantially as specified.

3. In a delineator, the combination, with a base plate or bar having a vertical board arranged thereon, of the standard swiveled at its lower end on the plate or bar, the sight-bar mounted on the upper end of the standard, the tubular arm connected to the sight-bar and carrying a suitable pointer, and the cord affixed at its ends to the sight-bar on opposite sides of the standard and passing at an intermediate point around a suitable drum or pulley, substantially as specified.

4. In a delineator, the combination, with a suitable base plate or bar provided with a suitable vertical board, of the standard swiveled on the said plate or bar and provided

with a vertical slot, *c*, the spindle *K*, mounted in registering bearings in opposite sides of the slot *c* and provided with a thumb-wheel and a drum, the sight-bar provided with suitable sights, the cord attached at its ends to the sight-bar and passing at an intermediate point around the said drum, the tubular arm mounted in the lower end of the slot and connected at its free end to the sight-bar, and the pointer mounted in the tubular arm and provided with a suitable pencil or crayon, substantially as and for the purpose specified.

5. In a delineator, the combination, with the dovetailed base plate or bar *A*, provided with a socket, *D*, the standard mounted in the socket, the sight-bar mounted on the standard, the tubular arm mounted on the standard and connected to the sight-bar, and the pointer arranged in the tubular arm, of the vertical board provided with a depending casting having a dovetailed notch fitting snugly on the base plate or bar, and the thumb-screws arranged in the sides of the notch and bearing against the plate or bar to lock the board in the desired position, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

DAVID K. WADE.

Witnesses:

JOHN D. MILLIKEN,
F. E. BARBER.