

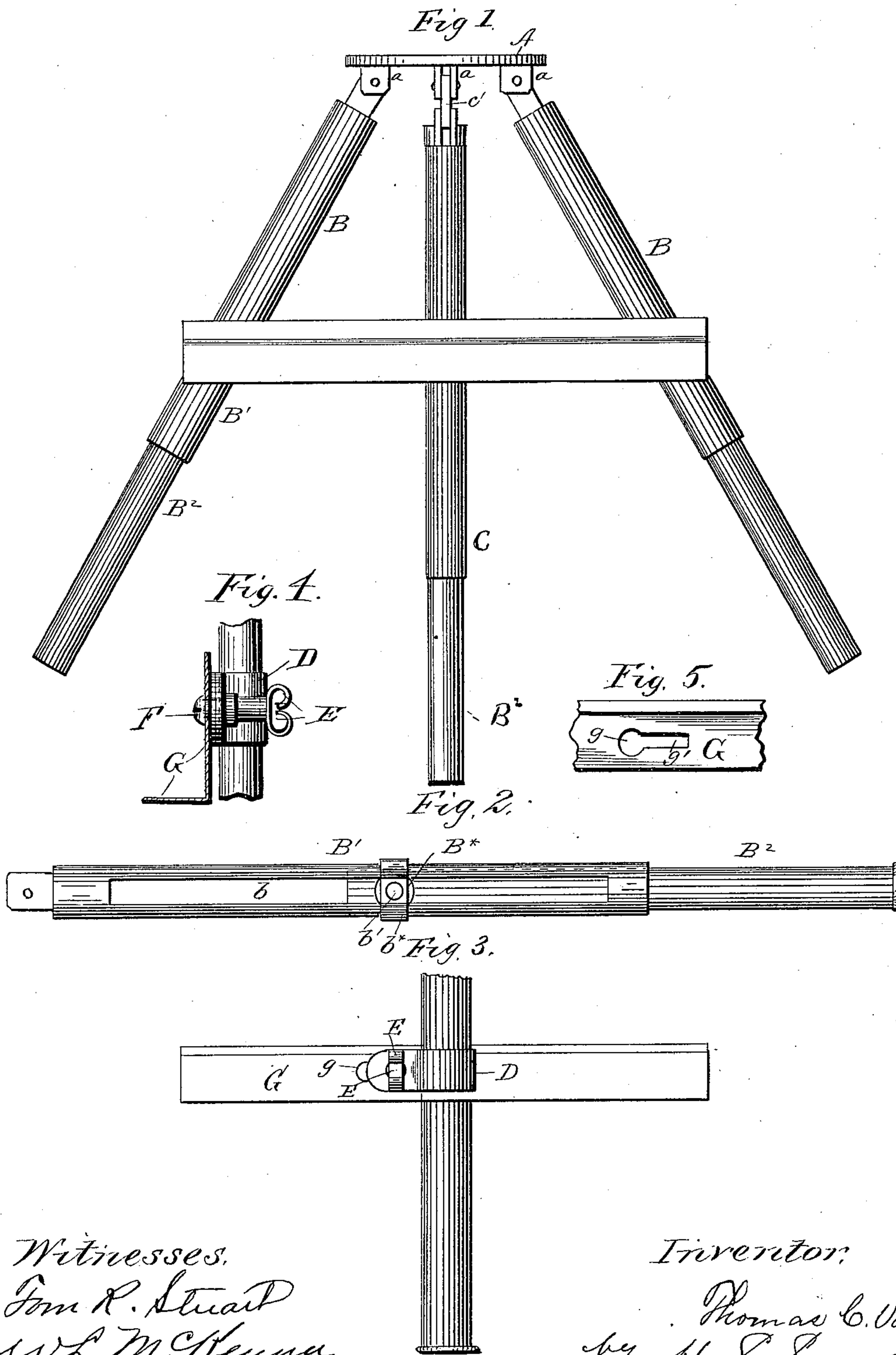
(No Model.)

T. C. VAIL.

EASEL.

No. 308,535.

Patented Nov. 25, 1884.



Witnesses,  
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att'y



# UNITED STATES PATENT OFFICE.

THOMAS C. VAIL, OF TOPEKA, KANSAS.

## EASEL.

SPECIFICATION forming part of Letters Patent No. 308,535, dated November 25, 1884.

Application filed July 1, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS C. VAIL, a citizen of the United States, residing at Topeka, in the county of Shawnee and State of Kansas, have invented certain new and useful Improvements in Easels, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to easels, and is intended as an improvement on my patent granted for easels, the serial number of which is 120,856, and has for its object the production of a neat, light, and convenient easel possessing characteristics of ready adjustability and perfect action.

In carrying my invention into practice I form the legs of the easel of hollow cylindrical shape, and one portion telescopes upon the other, the outer or longer cylinder being provided with a longitudinal slot in one side, through which a stud projects, which is secured upon the interior cylinder. A thumb-nut is secured upon the stud, with a washer bent to partially embrace the exterior cylinder interposed between said cylinder and the thumb-nut. By this construction the legs are made readily adjustable. The depending arm is provided with a clamp which is elastic, and has means for being pinched upon the depending arm, and thus being held at one height thereon. A suitable head receives under it the side of the shelf, which is held thereon by having the contracted neck of a circular aperture, through which the head is protruded and slides upon.

The construction will be more fully understood from the following detailed description.

In the drawings, Figure 1 is an elevation of my easel with shelf attached and ready for use. Fig. 2 is a view of one of the legs. Fig. 3 is a view of the depending rod with shelf attached, showing mode of fastening the same. Fig. 4 is a detail view of a portion of the shelf and the holding means therefor. Fig. 5 is a portion of the shelf, showing the opening formed therein by which it is held upon the engaging means.

Similar letters of reference indicate corresponding parts in all the figures where they occur.

A is the head, provided with the usual depending pivoted brackets, *a a a*, to which the legs B and the depending arms C are pivoted. Each leg B is composed of two cylindrical

portions, B' B<sup>2</sup>, which telescope upon each other. The longer or exterior cylinder, B', is provided with a longitudinal slot, *b*, and the smaller or interior cylinder with a projecting screw-stud, *b'*, which extends out through the slot *b*, and has upon it a thumb-nut, *b<sup>x</sup>*, by means of which the two portions of the legs are held together.

The clamp D, which encircles the arm C, has projecting wings on its ends, through which a pinching-screw passes, which pinching-screw has the thumb-nut E on the outer side and the head F upon the front side. By loosening the thumb-nut E the clamp has liberty to be moved up or down, and by tightening up said thumb-nut it is held securely at any point. The shelf G is provided on its rear wall with a circular or other suitable-shaped opening, *g*, to receive the head F through it, which opening *g* is extended into a contracted neck, *g'*, the edges of which, when the shelf is forced in the proper direction, will come under the head F and hold the shelf securely upon the clamp.

Having thus described my invention, what I desire to claim and secure by Letters Patent is—

1. An easel consisting of the hollow cylindrical legs formed of two parts, B' B<sup>2</sup>, telescoping upon each other, and provided with the set-nuts, slots, and screw-studs, as described, the depending arm C, spring-clamp D, clamping-nut E, and head F, shelf G, suitably apertured, as set forth, and head A, from which the legs and arm are swung.

2. The combination, with the depending arm of an easel, of the clamp described, having the projecting wings, the pinching-screw for closing them together, the head upon the inner end of the pinching-screw, and apertured shelf, as set forth.

3. The combination, with the depending arm, the elastic clamp having the projecting wings, the pinching-screw, thumb-nut, and head described, of the shelf having the opening and contracted neck, substantially as set forth.

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

THOMAS C. VAIL.

Witnesses:

W. W. MANSPEAKER,  
HARRY AUSTIN.