

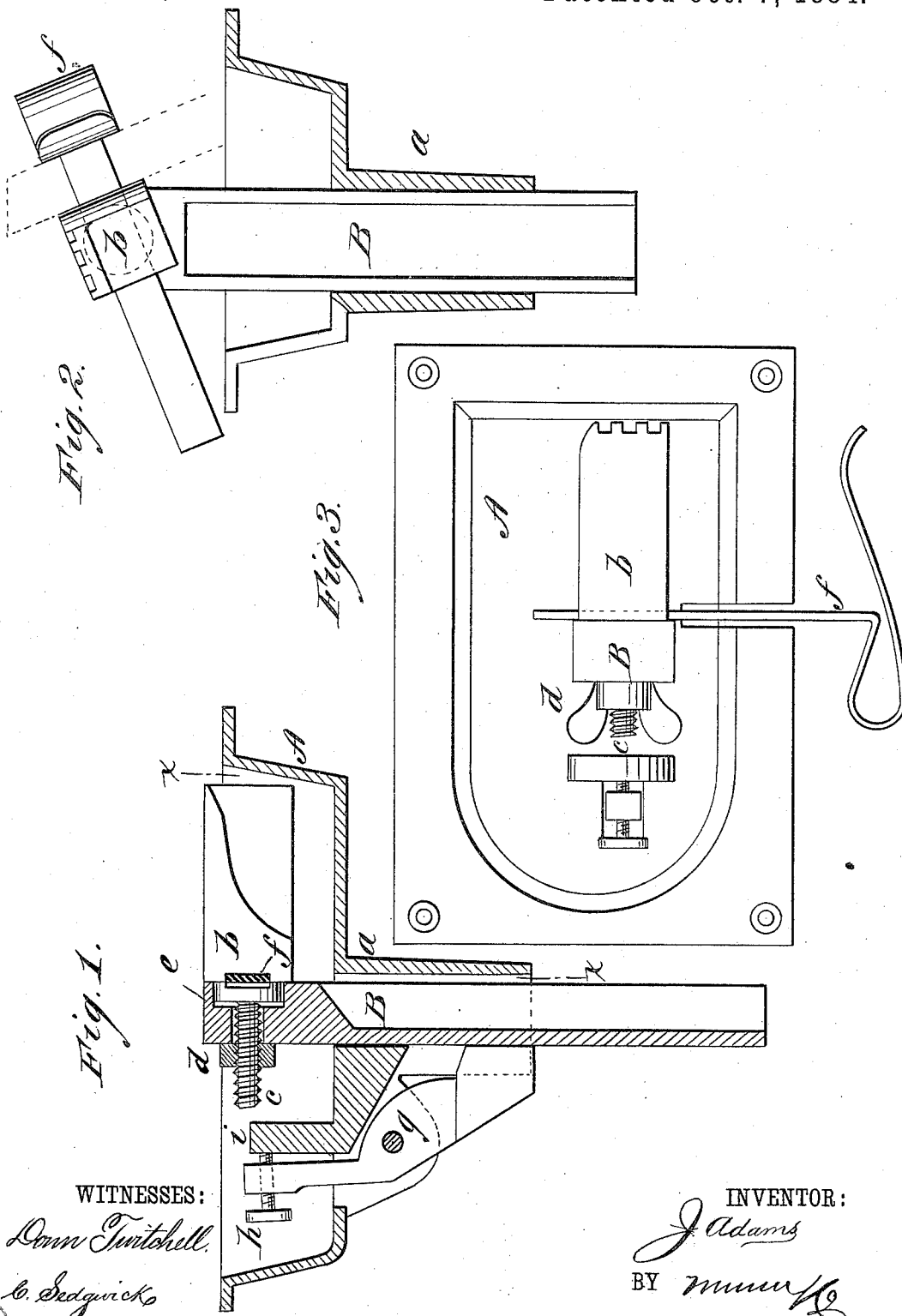
(No Model.)

J. ADAMS.

BENCH STOP.

No. 306,203.

Patented Oct. 7, 1884.



WITNESSES:

*Donn Twitchell.*

*C. Sedgwick.*

INVENTOR:

*J. Adams*

BY *Munn & Co.*

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JOHN ADAMS, OF HANCOCK, NEW YORK.

## BENCH-STOP.

SPECIFICATION forming part of Letters Patent No. 306,203, dated October 7, 1884.

Application filed July 30, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN ADAMS, of Hancock, in the county of Delaware and State of New York, have invented a new and useful Improvement in Bench-Stops, of which the following is a full, clear, and exact description.

My invention consists in a bench-stop constructed for universal use, in the manner hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional side view of the bench-stop. Fig. 2 is a cross-section on line *x x* of Fig. 1, and Fig. 3 is a plan view of the stop.

A is the cup or case formed with flanges on its upper edges, so that it may be let into and fastened flush with the top of a bench; and *a* is a tube formed on the under side of the case to receive and guide the post.

B is the post passing through tube *a*, and carrying at its upper end the piece *b* or stop proper, which is of suitable form, and attached to post B by a screw, *c*, passing through a mortise and a butterfly-nut, *d*, by which the rounded end of the stop *b* is drawn and held into the mortise. The piece or stop *b* is made with a cross-slot, *e*, that receives the end or shank of a spring-clamp, *f*, the end of which projects through a slot in the side of case A, so that the end of the spring is held at the side of the bench for clamping the work thereto. The spring is to be set in and out for holding either thin or thick material, and it is clamped to the post by the screw and nut *d*. When not needed, this spring-clamp can be put in from the opposite side, as in Fig. 2, or entirely removed.

Upon the under side of case A are lugs, to which is hung a clamp, *g*, whose lower end bears on post B, and its upper end extends up through the bottom of the case. In the upper end of this lever *g* is tapped a thumb-screw, *h*, so as to take a flange, *i*, on the case, and force the lever against the post, whereby the latter is held in position as raised. When lowered into the cup, the head *b* is below the bench-surface.

With this bench-stop work can be held upright or flat on the bench, or at any angle desired, so that the plane can be held level. The spring-clamp can also be used in place of a vise for holding boards or plank to be worked.

The parts are easily adjusted, both thumb-screws being convenient for use, and it is adapted for all wood-working done on benches.

The post B and tube *a* are grooved to allow free escape of dirt.

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

1. In a bench-stop, the casing provided with the post having the lateral stop or arm capable of rotary movement and carrying a clamp, with its jaw adapted with said stop or arm to effect the clamping operation, substantially as and for the purpose set forth.

2. In a bench-stop, the casing provided with the vertically-adjustable post having the lateral stop or arm capable of rotary movement and carrying a clamp, with its jaw adapted with said stop or arm to effect the clamping operation, substantially as and for the purpose set forth.

3. In a bench-stop, the casing provided with the post having the lateral rotatable stop or arm provided with the sliding clamp, with its jaw adapted with said stop or arm to effect the clamping operation, substantially as and for the purpose set forth.

4. In a bench-stop, the combination, with the case having a tubular pendant and an adjusting clamp-lever, of the post carrying the lateral rotatable stop or arm, said lever having a screw bearing against a flange of said case, and with its lower end entering a slot of said pendant and bearing against said post, substantially as and for the purpose set forth.

5. In a bench-stop, the post, in combination with the lateral stop provided with a circular or rounded end let into a socket of said post, and the adjusting screw-bolt projecting from said rounded end of the stop, and through an aperture in said post, together with the bolt-tightening nut, substantially as and for the purpose indicated.

6. In a bench-stop, the combination, with the case having a slot in one side, of the post carrying a lateral stop or piece provided with a clamp, said clamp resting in said slot of the case, as and for the purpose set forth.

JOHN ADAMS.

Witnesses:

HENRY WELSH,  
WILLIAM J. WELSH.