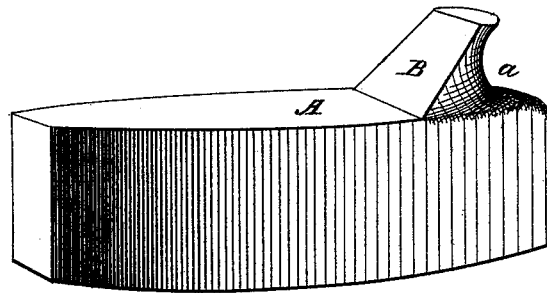


J. GORHAM.  
BENCH-PLANES.

No. 180,867.

Patented Aug. 8, 1876.



**WITNESSES:**

*Francis M. Child.*  
*Guilave Dittreich*

**INVENTOR:**

*J. Gorham*  
BY *Munnell*

**ATTORNEYS.**

# UNITED STATES PATENT OFFICE.

JACKSON GORHAM, OF CRAWFORDVILLE, GEORGIA, ASSIGNOR TO HIMSELF  
AND CHARLES E. SMITH, OF SAME PLACE.

## IMPROVEMENT IN BENCH-PLANES.

Specification forming part of Letters Patent No. **180,867**, dated August 8, 1876; application filed  
July 11, 1876.

*To all whom it may concern:*

Be it known that I, JACKSON GORHAM, of Crawfordville, in the county of Taliaferro and State of Georgia, have invented an Improvement in Bench-Planes, of which the following is a specification:

My invention consists of a stud applied on the top of a smoothing-plane stock near the heel, and adapted to fit between the thumb and forefinger of the right hand, while the palm bears against the heel of the stock, whereby the pressure of the hand is distributed over a larger surface, and is thus diminished on the small area heretofore employed for driving the plane by pressing against the heel of the stock. It also affords a bearing or rest for a part of the hand not heretofore having any support on the stock, and therefore making the work easier.

The drawing is a perspective side elevation of a plane-stock constructed according to my invention.

A is the stock, and B the stud, which I apply as above described. The rear side of the stud *a* is made in suitable transverse convex form and vertical concave form, to make an easy bearing for the hand. The handle may be made separate from the stock and attached to it, or it may be worked out of the block in connection with it.

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

The plane-stock A, having the stud B, constructed in the form represented at *a*, and located relatively to the heel of the stock, substantially as specified.

JACKSON GORHAM.

Witnesses:

V. T. SMITH,  
CHARLES A. BEAZLEY.