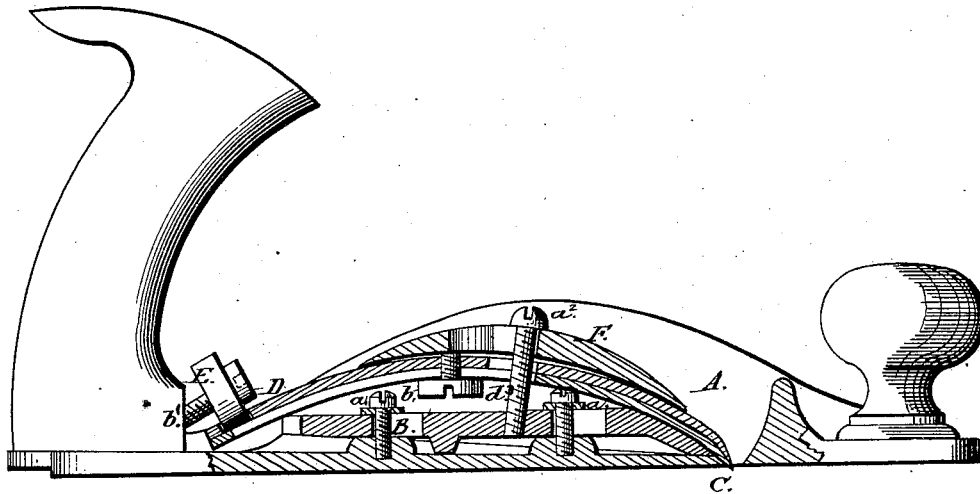


T. HAGERTY.

Bench-Plane.

No. 161,609.

Patented April 6, 1875.



*Thomas Hagerty*

*Inventor:*

*Witnesses:*

*Edw. W. Brown*

*Chas. E. Gregory*

# UNITED STATES PATENT OFFICE.

THOMAS HAGERTY, OF NEW YORK, N. Y., ASSIGNOR TO JOHN ALFRED PICKERSGILL, OF SAME PLACE.

## IMPROVEMENT IN BENCH-PLANES.

Specification forming part of Letters Patent No. 161,609, dated April 6, 1875; application filed December 2, 1874.

*To all whom it may concern:*

Be it known that I, THOMAS HAGERTY, of the city, county, and State of New York, have invented certain Improvements in Bench-Planes; and I declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, in which the figure is a view of my improvement, the side of the plane-stock being broken away, so as to show the construction of the several parts as they appear in the stock.

The object of my invention is to improve the construction of bench-planes, so that the bit may be conveniently placed out of the way of the hand, held firmly on its bed, and the cutting-edge of the plane-iron be more readily adjusted with reference to the bottom surface of the plane-stock. To this end the invention consists in the combination and arrangement of the devices employed, all as hereinafter described.

In the drawing, A is the plane-stock, made to receive a semicircular bed-block, B. The bed-block rests on projections cast on the bottom of the plane-stock, and is secured to it by screws *a a*, which pass through oblong holes, which are intended for adjusting the mouth of the stock. C is the plane-iron, bent to conform to the same circle as the bed-block, and is provided with a cap, D, bent to conform

to the plane-iron, and secured to it by a clamp-screw, *b*. The cap iron is slotted crosswise at its upper end to receive the flange of the adjusting-nut E, and a hole is made through it in front of the clamp-screw *b* to receive the screw *a*<sup>2</sup>, which secures the top clamp F, cap D, and plane-iron C to bed-block B. The clamp F is of a smaller circle than the plane-iron, so that both ends rest on the cap and hold the parts firmly to the bed-block. The adjusting-nut E traverses a male screw, *b'*, which is set on an incline, so that the flange enters the notch in the cap-iron, and is also provided with a slot in front for applying a screw-driver to operate the bit. The same construction of bit may be applied to scraper-plane by raising the semicircular bed-block to the proper height, and making the bit so as to conform to its circle.

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

The combination of the plane-stock A with the bed-block B, semicircular bit C, cap D, and adjusting-nut E, provided with screw *b*, all constructed and operating substantially as herein shown and described.

THOMAS HAGERTY.

Witnesses:

W. C. TUCK,  
WM. RUTHERFORD.