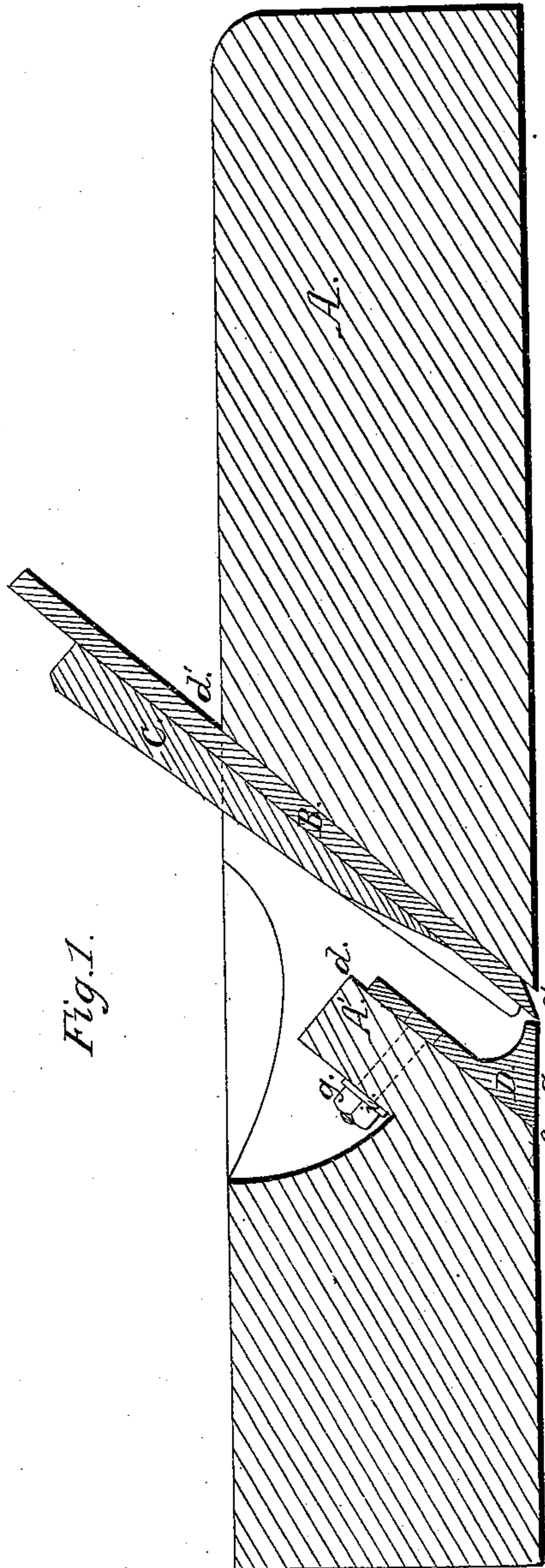
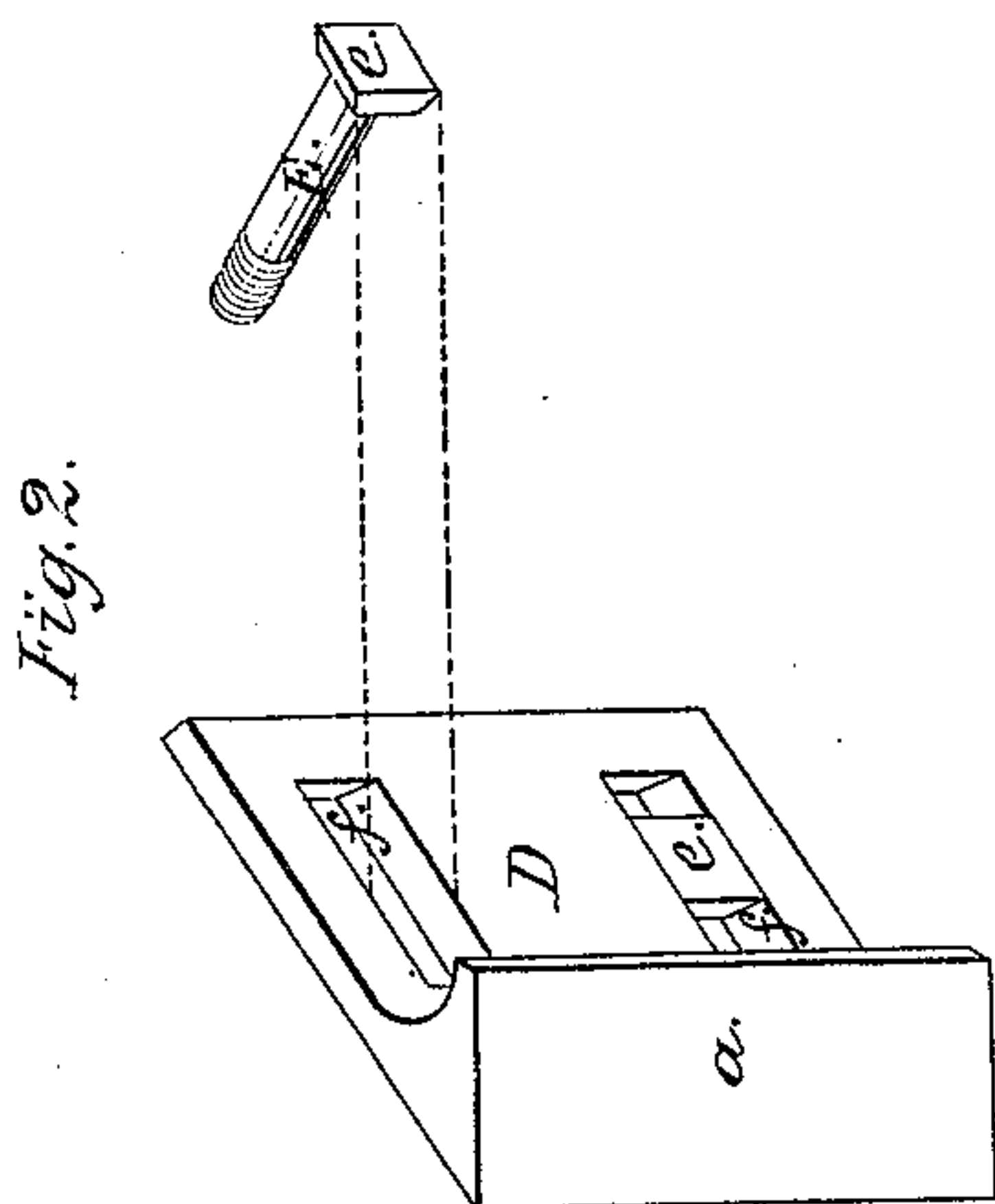


L.C. Ashley,

Bench Plane.

No. 14,436.

Patented Mar. 18. 1850.



Witnesses.

John McGraw.
A. Y. Park.

Inventor.

Lewis C. Ashley

UNITED STATES PATENT OFFICE.

LEWIS C. ASHLEY, OF TROY, NEW YORK.

BENCH-PLANE.

Specification of Letters Patent No. 14,436, dated March 18, 1856.

To all whom it may concern:

Be it known that I, LEWIS C. ASHLEY, of Troy, in the county of Rensselaer and State of New York, have invented a new and useful Improvement in Bench-Planes; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a longitudinal section, and Fig. 2 a drawing of the adjustable metallic throat piece, detached from the plane stock.

The same letters refer to like parts in both figures.

It is well known to persons accustomed to the use of common bench planes, that in such planes, the mouth of the throat is enlarged and rendered imperfect by the wearing away of the stock. The plane iron or bit has been made adjustable, and also an adjustable metallic throat piece has been attached to the plane iron, to remedy this defect. But I believe that these hitherto known modes of prevention are either inapplicable to bench planes as commonly constructed with wood stocks, or are attended by much inconvenience in "setting" the plane iron.

My invention consists in so combining a metallic throat piece with a plane stock, to keep the mouth of the throat of the plane perfect as the plane stock shall wear away, that the plane iron or bit can be adjusted within or removed from the plane stock without disarranging the said throat piece.

The construction is as follows: A is a common wooden plane stock, with a bit or plane iron, B, fastened by a wedge, C, as usual. The front side *c*, *d*, of the throat is made parallel with the bed *c'*, *d'*, of the plane iron, as has been sometimes done heretofore. I provide a metallic throat piece, D, and attach it firmly, in an adjustable man-

ner, to the front side *c*, *d*, of the throat. This I effect by means of screw bolts E, having sunken heads, *e*, fitting in the countersunk slots, *f*, of the throat piece, which bolts are passed through the part A' of the stock and tightened by the nuts *g*; or the throat piece may be secured in any other known mode which shall hold it in an adjustable manner, firmly in place. The throat piece is set so that the back part of the face *a*, shall be "in line" with the face of the stock. I make the forward portion of the face *a*, a little higher than the back part; so that that part of the stuff to be planed which is immediately in front of the cutting edge of the bit shall be surely held down and not allowed to lift up until just as it is shaved off.

It will be observed that while the metallic throat piece is so constructed and combined with the stock that the mouth of the throat of the plane shall not be enlarged or rendered imperfect by the wearing away of the plane stock, the plane iron can be adjusted or removed from, and reset in the stock, without disturbing the firmly secured throat piece.

I do not broadly claim combining a metallic throat piece with a bench plane in such a manner that the discharging aperture for the shavings shall not be enlarged or rendered imperfect by the wearing away of the plane stock.

I claim as my invention and desire to secure by Letters Patent.

Combining a metallic throat piece with a plane stock in a manner independent of the plane iron, substantially as herein described, to keep the mouth of the throat of the plane perfect as the plane stock shall wear away.

LEWIS C. ASHLEY.

Witnesses:

JOHN MORAN,
A. F. PARK.