

*J. R. Bailey,*

*Bench Plane.*

*No. 105,767.*

*Patented July 20, 1870.*

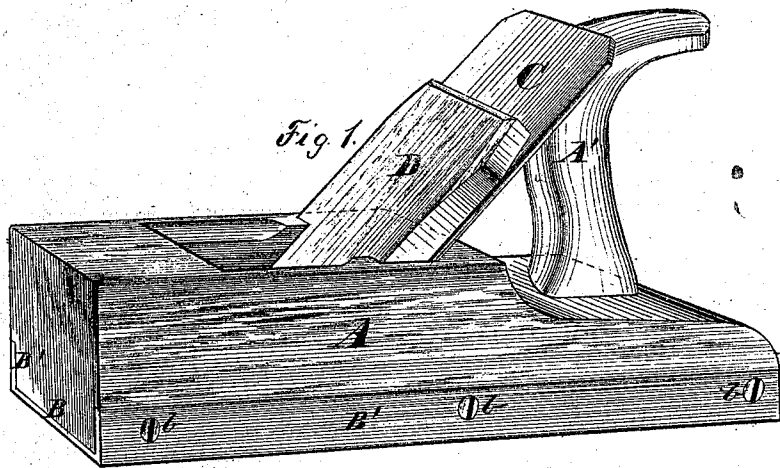
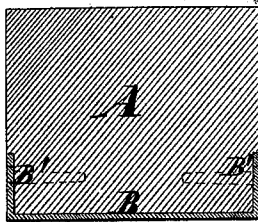


Fig. 2.



*Witnesses*  
*Wm. H. Kist*  
*H. Jones.*

*Inventor*  
*Joseph R. Bailey*  
*By Hornum & Co.*  
*His Attorney.*

# United States Patent Office.

JOSEPH R. BAILEY, OF WOONSOCKET, RHODE ISLAND, ASSIGNOR TO HIMSELF AND SELDEN A. BAILEY, OF SAME PLACE.

*Letters Patent No. 105,767, dated July 26, 1870.*

## IMPROVEMENT IN BENCH-PLANE.

The Schedule referred to in these Letters Patent and making part of the same.

### *To all whom it may concern:*

Be it known that I, JOSEPH R. BAILEY, of Woonsocket, in the county of Providence and in the State of Rhode Island, have invented a new and useful Improvement in Planes; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawing making part of this specification, in which—

Figure 1 is a perspective view of my improved bench-plane.

Figure 2 is a transverse section thereof.

Corresponding letters refer to identical parts in both figures.

This invention relates to bench-planes; and

The improvement consists in providing the wooden stock with a metallic sole, as will be more fully set forth hereinafter.

To enable those skilled in the art to make and use my invention, I will proceed to describe its construction more specifically.

Bench-planes, the stocks of which are made of wood, are liable to warp when exposed to dampness, even if made of thoroughly seasoned wood, and the wearing-surface is also often worn away more rapidly in some parts than in others, so that the workman, if he wants er must have a good and accurate plane, is obliged to level its under surface from time to time.

It has been my object to obviate this necessity by arming the under surface of the wooden stock A by a metallic sole, B, extending the entire length of the

stock, and provided at the proper point with a transverse throat, through which the cutting-edge of the bit C projects, the latter being provided with a sliding cap, and both being secured in the stock by a key, D, in the ordinary manner.

The stock has also a handle, A', as usual.

In order to make this sole perfectly smooth and level on its under surface, and prevent scratching of the wood by projecting points, which projections or unevennesses might be formed if it were screwed to the bottom of the stock, I propose to bend the sole to form a vertical flange, B', on each side, to embrace the sides of such stock, to which they are secured by screws *b*, as shown.

I prefer steel as a material for this sole, on account of its hardness, but other and softer metals may be employed.

What I claim as my invention, and desire to secure by Letters Patent, is—

A bench-plane, provided with a metallic sole, B, with flanges B', through which said sole is fastened to the stock by means of screws, or their equivalents, substantially as described.

The above specification signed by me this 12th day of June, 1870.

JOSEPH R. BAILEY.

Witnesses:

MARQUIS D. L. MOURY,  
ALBERT G. ROBINSON.