

M. Packard,

Edge Plane.

No. 78,758.

Patented June 9, 1868.

Fig. 1.

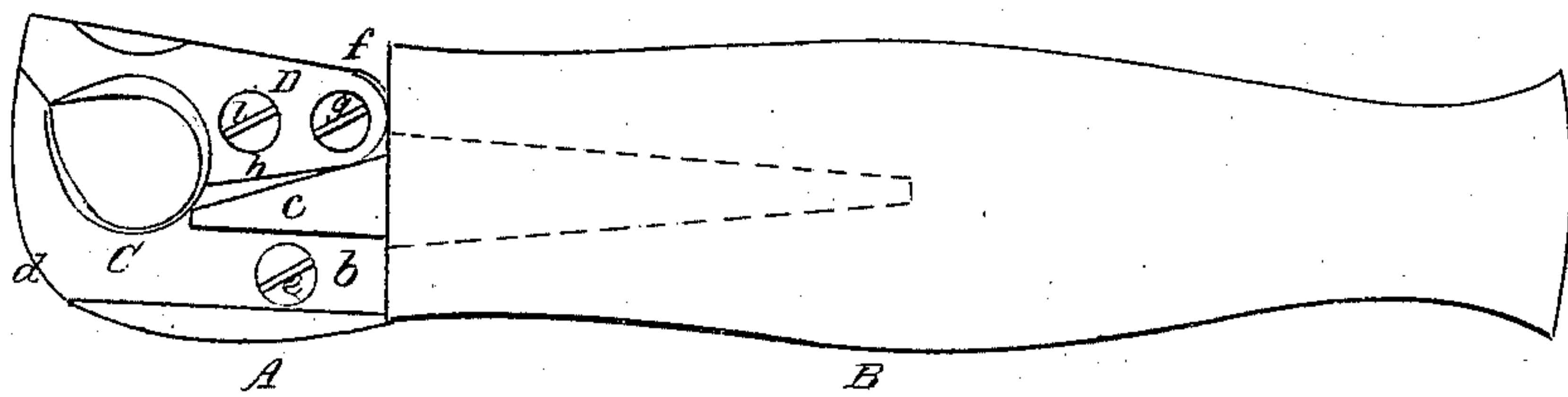


Fig. 4.

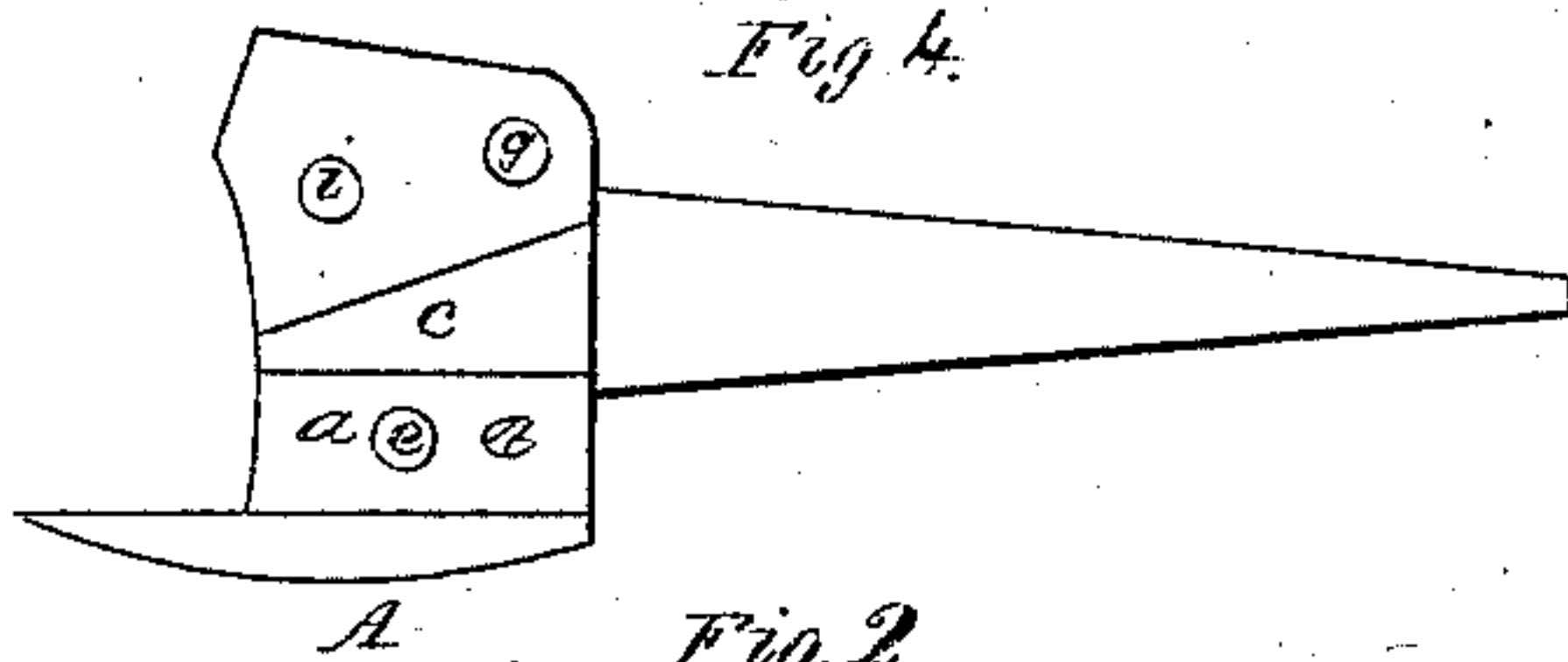


Fig. 2.

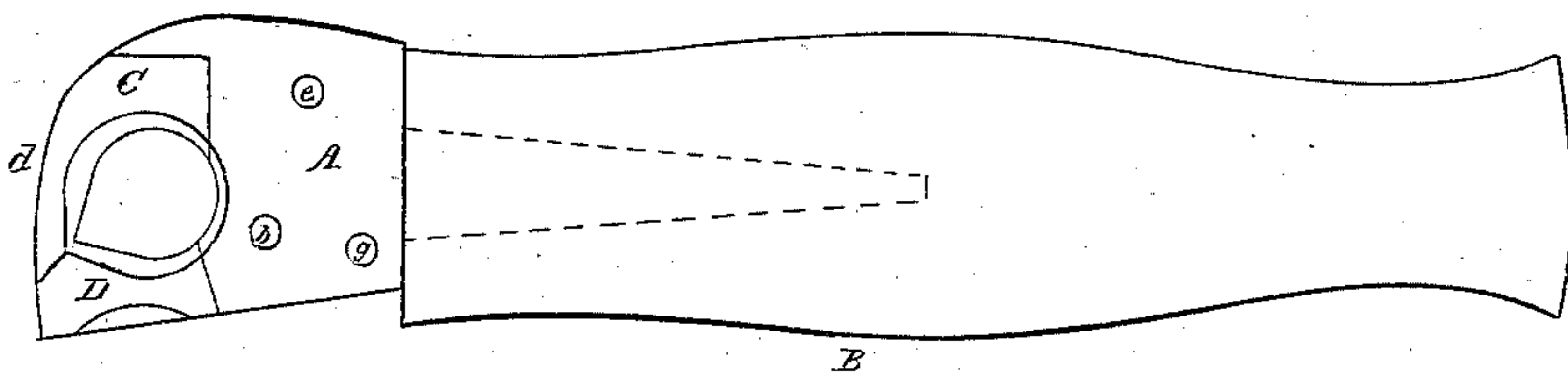


Fig. 5.

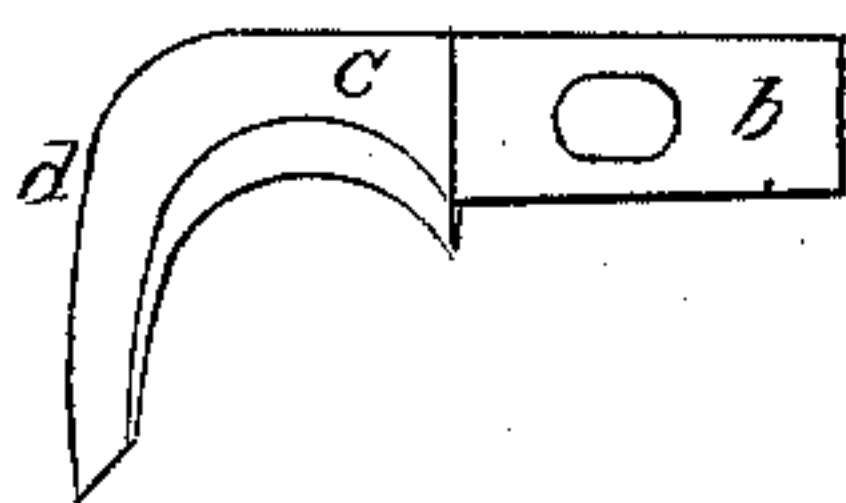
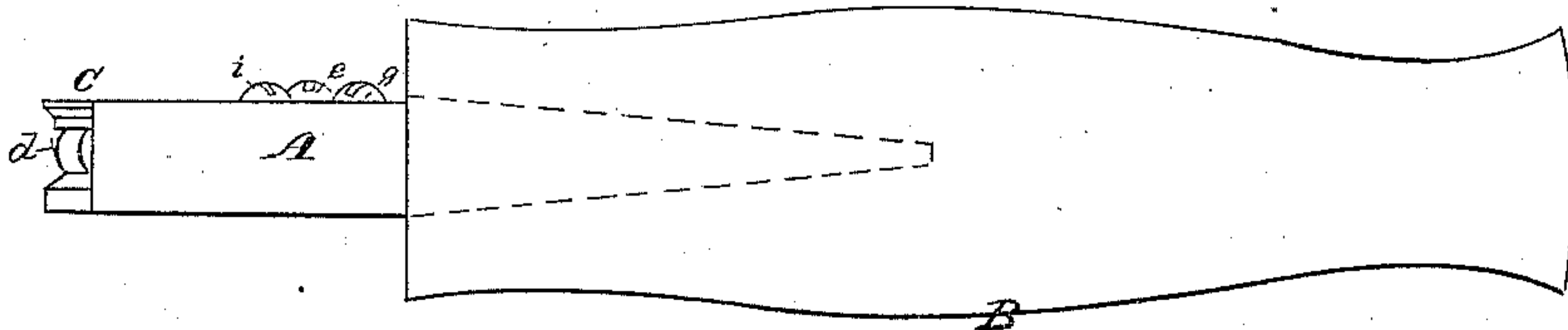


Fig. 6.



Fig. 3.



Witnesses

J. W. P. S.
J. H. S.

Mantey Packard

by his attorney.
R. H. Eady

United States Patent Office.

MANLEY PACKARD, OF NORTH EASTON, MASSACHUSETTS.

Letters Patent No. 78,758, dated June 9, 1868.

IMPROVED SOLE-EDGE PLANE.

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

TO ALL PERSONS TO WHOM THESE PRESENTS MAY COME:

Be it known that I, MANLEY PACKARD, of North Easton, in the county of Bristol, and State of Massachusetts, have invented a new and useful Improvement in Sole-Edge Planes; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figures 1 and 2 are side elevations.

Figure 3, an edge view of an edge-plane as constructed with my improvement.

Figure 4 is a side view of the cutter and gauge-stock.

Figure 5 is a side view of the knife as it appears when separated from the stock.

Figure 6 is a similar view of the throat-piece.

In such drawings, A denotes the stock as fastened to a handle, B. The stock should be made of metal, and be provided with a tang to enter the handle, or both handle and stock may be formed in one piece of metal. The stock has a groove, *a*, to receive the shank *b* of the knife C. It also has an abutment or projection, *c*, which is extended from it, and against the back of the shank, in order to support the knife at its heel against the strain brought upon the knife while it may be in use.

The knife, framed somewhat like a hook, and having its curved portion, *d*, grooved on its outer edge, (the cross-section of the groove being to conform to that required to be produced on a sole-edge to be trimmed by the implement,) has its shank placed in its receiving-socket, and held therein by a set-screw, *e*, which passes through a slot in the shank, and screws into the stock, the same being so as to enable the knife to be moved in the direction of its shank, so as to be adjusted with reference to its throat-piece, D.

The said throat-piece, formed as represented in the drawings, has its shank, *f*, pivoted to the stock, that is, so as to turn on a centre-pin or screw, *g*, in a direction away from the cutting-edge of the knife. There is a notch, *h*, in the shank to receive a clamp-screw, *i*, which is screwed into the shank, the whole being formed and arranged as represented.

By loosening the screw *i* the throat-piece D may be turned away from the knife, and into the position as shown by dotted lines at D' in fig. 1, such being for the purpose of enabling ready access to be had to the cutting-edge of the knife when it may be necessary to sharpen it.

The throat-piece, on being turned back to place, brings up against the shank of its clamp-screw, and thus attains its normal position. The projection of the knife beyond the throat-piece, so as to enable the former while in use to cut from a sole a shaving of any desirable thickness, is to be determined by its means of adjustment.

I do not claim a knife formed in one piece with the stock, and combined with an adjustable throat-piece, so fixed to the stock as simply to be adjustable in one straight line only with respect to the knife.

I claim as my invention or improvement in the sole-edge plane, the knife C, the throat-piece D, and stock A, as constructed in separate pieces, and arranged together and combined by means substantially as described, so as to enable the knife to be adjusted with respect to the throat-piece, and such throat-piece be moved relatively to the knife, all as and for the purpose or purposes as explained.

I also claim the arrangement and combination of the abutment or supporting-projection *c*, the stock A, the adjustable knife C, and the throat-piece D, movable relatively to the knife, as and for the purpose hereinbefore described.

MANLEY PACKARD.

Witnesses:

J. R. SNOW,

F. P. HALE, Jr.