

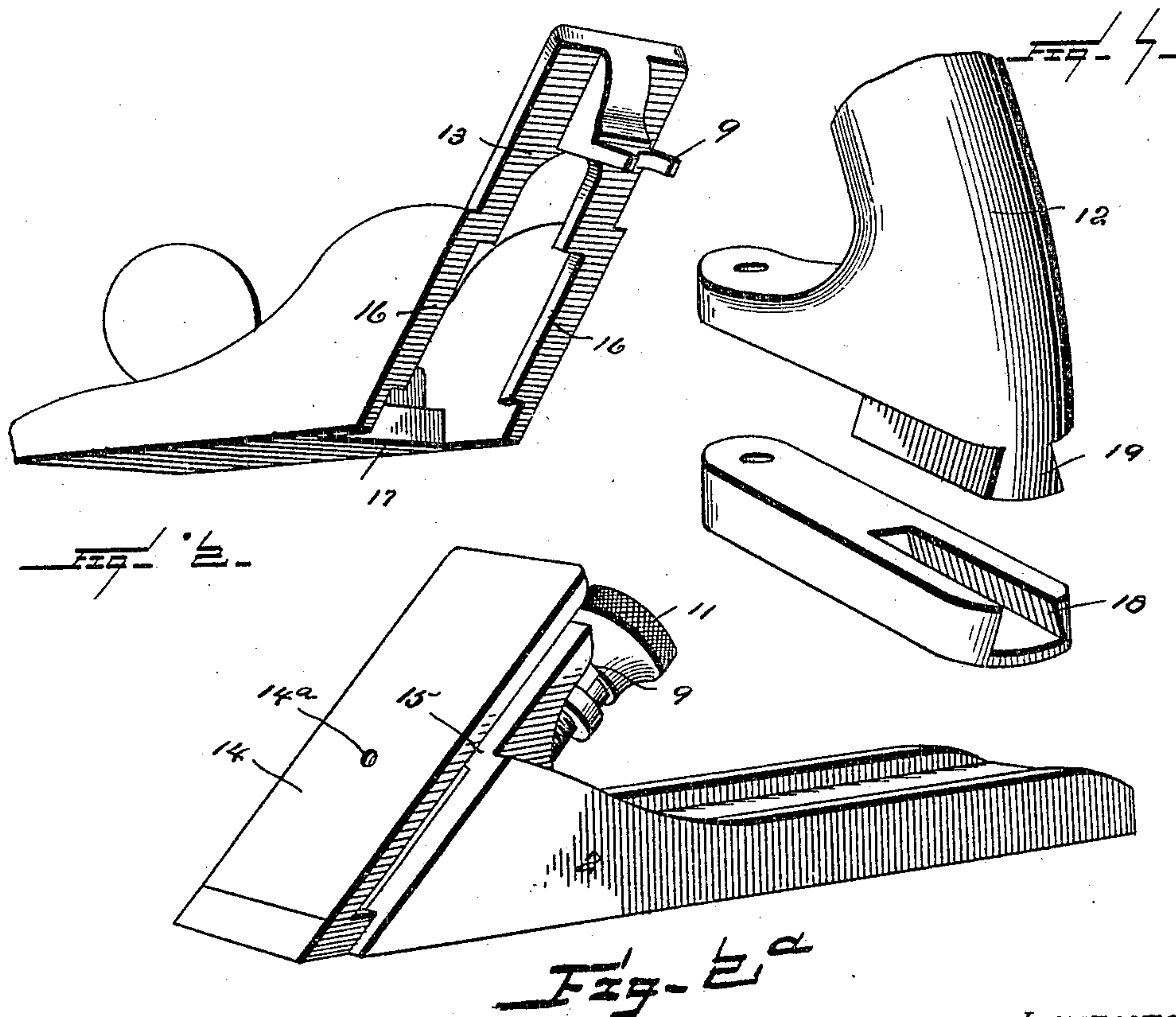
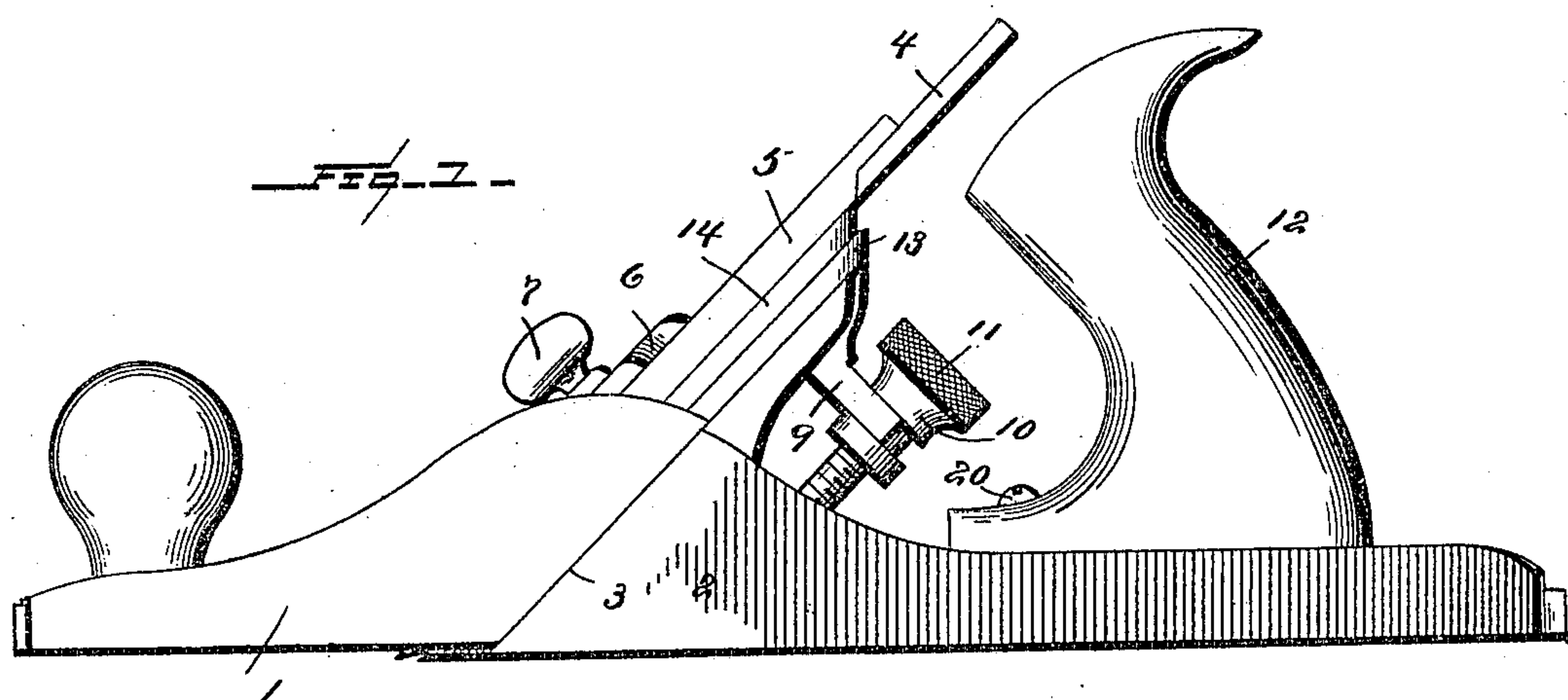
No. 819,888.

PATENTED MAY 8, 1906.

A. O. JONES.
PLANE.

APPLICATION FILED MAY 25, 1905.

2 SHEETS—SHEET 1.



WITNESSES:

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W. F. Kayh.
Geo. E. Tew

INVENTOR.

Albert O. Jones.
By Milo B. Stevens & Co.
Attorneys.

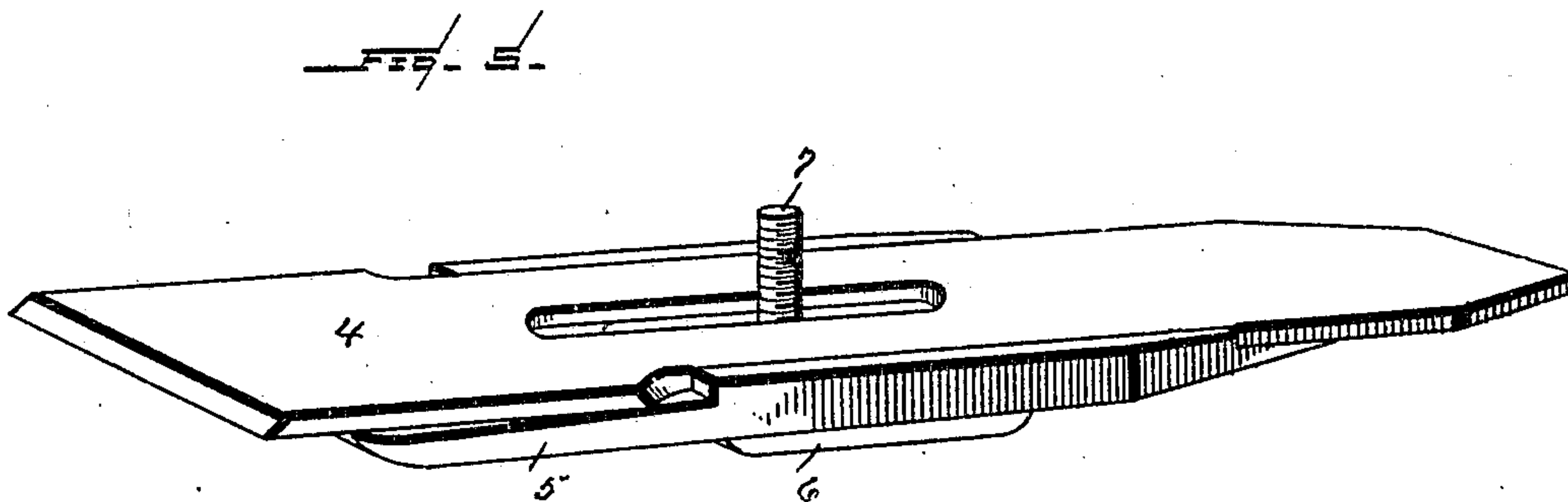
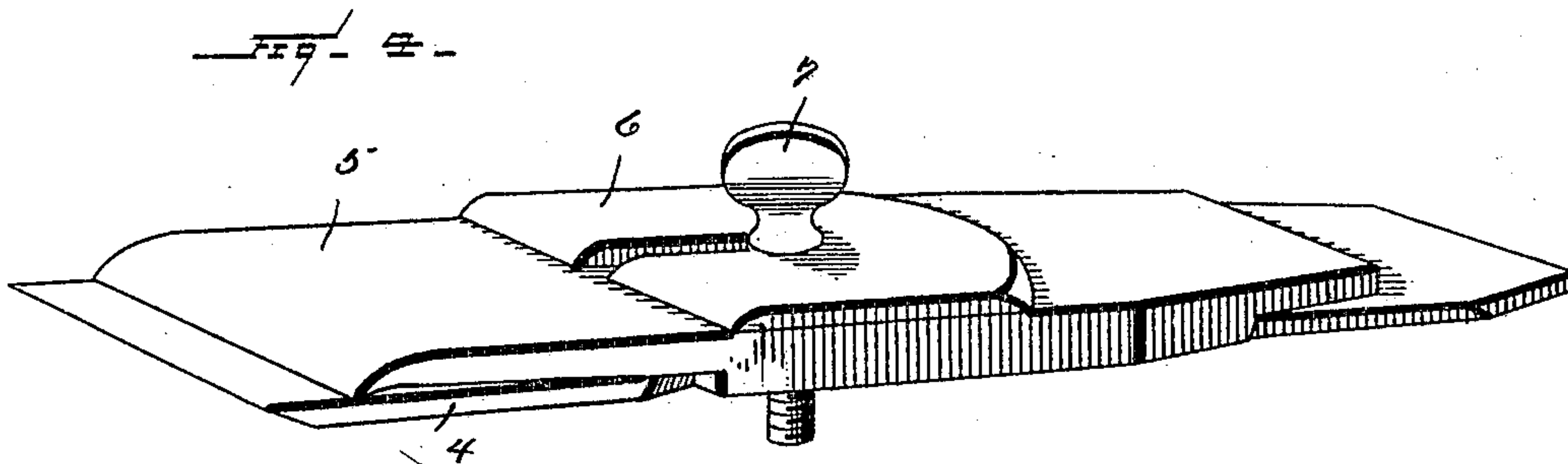
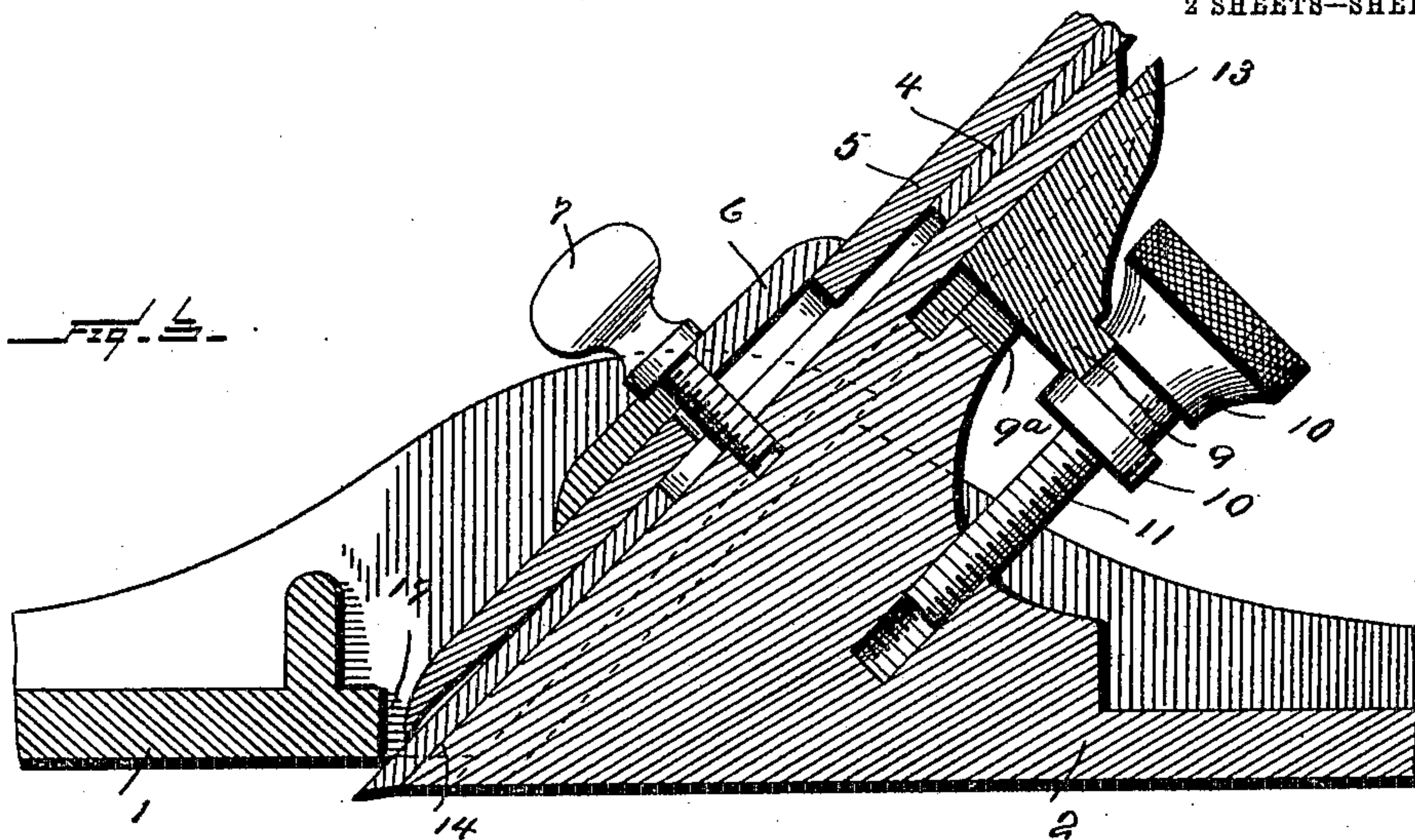
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W. F. Roy

Geo. E. Tew

Fig. 3



By

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INVENTOR

Albert O. Jones

UNITED STATES PATENT OFFICE

ALBERT O. JONES, OF EAST CONNEAUT, OHIO, ASSIGNOR OF ONE-HALF
TO BEN KENNEDY, OF CONNEAUT, OHIO.

PLANE.

No. 819,888.

Specification of Letters Patent.

Patented May 8, 1906.

Application filed May 25, 1905. Serial No. 262,224.

To all whom it may concern:

Be it known that I, ALBERT O. JONES, a citizen of the United States, residing at East Conneaut, in the county of Ashtabula and State of Ohio, have invented new and useful Improvements in Planes, of which the following is a specification.

This invention is an improved bench-plane, and is characterized particularly by the fact that instead of having an adjustable blade in a one-piece stock, as usual, the plane has a stock formed with front and rear sections, to the latter of which the blade is fixed, and the front section can be raised or lowered to adjust the cut.

Other advantages and novelties of construction will more particularly appear from the following description and the accompanying drawings.

In the drawings, Figure 1 is a side elevation of the plane. Figs. 2 and 2^a are perspective views showing the sections of the stock separated, the blade and its holder being removed. Fig. 3 is an enlarged detail, in vertical longitudinal section, illustrating the blade adjustment. Figs. 4 and 5 are perspective views showing, respectively, the front and back of the blade, its holder, and cap. Fig. 6 is a cross-section of the blade and holder. Fig. 7 is a perspective view showing the manner of attaching the handle to the stock.

Referring specifically to the drawings, the front portion of the stock is indicated at 1, and the rear portion at 2, the meeting line 3 being parallel to the line of inclination of the blade 4. The blade is adjustably fixed to the rear section 2 of the stock in a manner to be hereinafter described. The parts 1 and 2 of the stock are connected together, so that they may be raised or lowered with respect to each other, thus bringing the sole of the part 1 more or less above the sole of the part 2, with the cutting edge of the blade at the jog so produced, as clearly appears in Fig. 3, and inasmuch as the front portion 1 of the stock slides upon the standing part of the work the cut or shaving corresponds in depth to the difference between the planes of the soles of the respective stock-sections.

The rear section 2 has a bed-plate 14, which has undercut grooves at the sides, as at 15. The front section 1 of the stock has at the rear a recessed plate 13, corresponding in in-

clination to the bed-plate 14, and this plate 13 has at the sides of the recess tongues 16, which fit in the grooves 15 behind the plate 14. The front piece 1 is cut out to form the mouth 17, through which the blade projects.

The parts 1 and 2 are assembled by entering the upper end of the plate 14 through the mouth 17 and sliding the parts on the diagonal line with the tongues 16 in the grooves 15.

Projecting rearwardly from the plate 13 is a lug 9, having arms which embrace the neck of a screw 11 between collars 10 thereon. This screw is tapped into the body of the rear section 2, and said body is slotted, as at 9^a, where the lug 9 extends through. By turning the screw 11 the parts 1 and 2 are raised or lowered with respect to each other, the tongues 16 in the grooves 15 forming guides for the movement, and the blade being fixed to the rear part 2 is thus caused to project more or less below the sole of the part 1.

The blade 4 rests against the bed-plate 14 and is held there by a holder 5 and a cap 6, these parts being slotted for the clamping-screw 7, which screws into the hole 14^a in the bed-plate. By means of the slots and the screw the holder may be set in any desired position with respect to the blade, and the blade may be set in any desired position with respect to the stock 2. It may be remarked in this connection that no matter how deep the blade is set to cut its edge is supported by the bed-plate and chattering or springing is avoided.

The handle is indicated at 12 and is mounted upon the rear of the section 2 by means of a dovetail tongue 19 and groove-block 18, fastened by a screw 20.

The manner of adjusting the parts to vary the cut of the blade is easy and certain and may be quickly effected, since the blade and its holder do not have to be loosened. A solid support for the blade is provided and it takes very readily into the work being planed.

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

1. A plane the stock of which has front and rear sections, the rear section having a bed to which the blade is clamped and the front section having a recessed plate engaging the sides of the bed and extending across behind the same, a rearwardly-extending lug pro-

jecting from the portion of the plate behind the bed, and an adjusting-screw between said lug and the rear section.

2. A plane the stock of which comprises
5 front and rear sections which meet at the throat and are adjustable with respect to each other to vary the planes of the soles of the respective sections, the rear section having a bed with a blade clamped thereon, and
10 the front section having at its rear end a recessed plate fitting behind the bed which pro-

jects through said recess, and an adjusting-screw between said plate and the rear section.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALBERT O. JONES.

Witnesses:

BEN KENNEDY,
JOHN A. BOMMARDT.