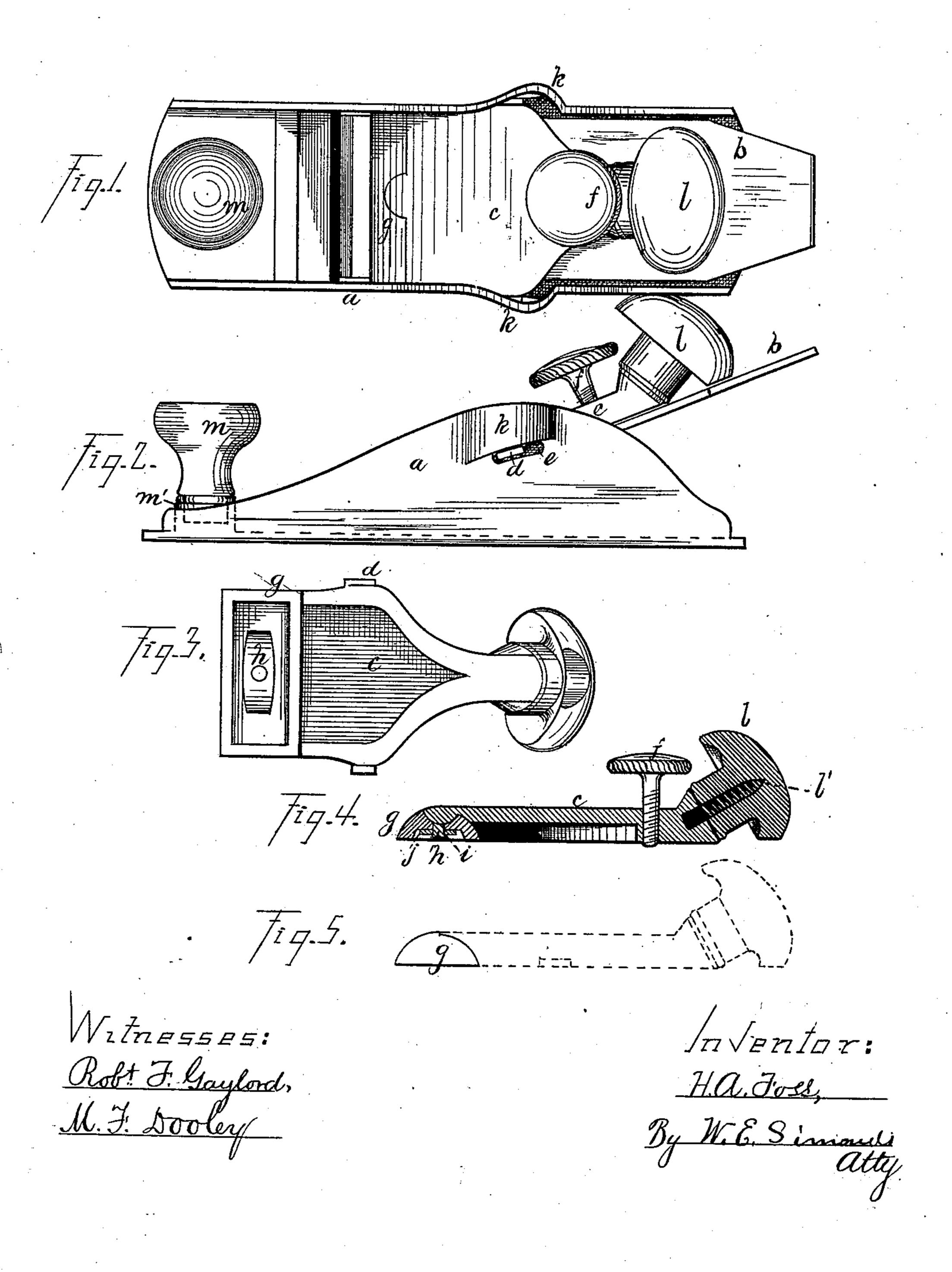
H. A. FOSS. Bench-Plane.

No. 207,599.

Patented Sept. 3, 1878.



UNITED STATES PATENT OFFICE.

HENRY A. FOSS, OF PINE MEADOW, CONNECTICUT, ASSIGNOR TO PHILIP E. CHAPIN, OF SAME PLACE.

IMPROVEMENT IN BENCH-PLANES.

Specification forming part of Letters Patent No. 207,599, dated September 3, 1878; application filed April 15, 1878.

To all whom it may concern:

Be it known that I, Henry A. Foss, of Pine Meadow, in the county of Litchfield and State of Connecticut, have invented certain new and useful Improvements pertaining to a Carpenter's Plane, of which the following is a specification, reference being had to the accompanying drawings, where—

Figure 1 is a top view of a plane embodying my improvements. Fig. 2 is a side view
of same. Fig. 3 is a bottom view of the fastening-lever. Fig. 4 is a view of the fasteninglever in central longitudinal section. Fig. 5
is a side view of the lower end of the fasten-

ing-lever:

The letter a denotes the body or stock of a metallic plane. b denotes the plane-iron, which may or may not be supplemented by a cap-iron lying on a proper bed and running down to the throat. The letter c denotes the fastening-lever, bearing on its sides the fulcrum-ears d d, resting in the fulcrum-mortises e e, which are made in the plane-stock, provided near the upper end with the tighteningscrew f, and at the lower end with the rocking end g, which is pivoted to the fasteninglever in such shape as to allow it to rock and adjust itself to bear squarely and flatly on the plane-iron. To secure this rocking motion, the lower end of the fastening-lever is provided with the pivot-pin h, which runs through a corresponding pin-hole, i, in the rocking end, and is provided with a head on the under side. Preferably the spring j is also secured on this

pin, bearing against the under side of the

rocking end.

The sides of the plane-body are provided with or shaped into the swells k k, and the fulcrum-mortises e-e are made just underneath these swells. These swells allow the passage of the fulcrum-ears d d down to the fulcrummortises. Then, by sliding the fastening-lever slightly forward, the ears d d are carried to the forward ends of the mortises, which are inwardly shouldered, so that the ears lock under at this point. This construction not only allows the fulcrum-mortises to be cast, but the swells give a good gripe for the hand of the operator.

The letter l denotes a knob or handle, fastened to the fastening-lever c by having the screw l' cast in or projecting from the fastening-lever, and running into the knob. Another mode of fastening on this or such a knob is illustrated by the knob m, which is driven into the ring m', cast on or projecting from

the floor of the plane-stock.

I claim as my invention—

1. In combination with the plane-body and plane-iron, the fastening-lever c, provided with the rocking end g, substantially as described, and for the purpose set forth.

2. The fastening-lever c, provided with the screw l', and combined with the knob l.

HENRY A. FOSS.

Witnesses:

JAMES WILEY, O. T. HUNGERFORD.