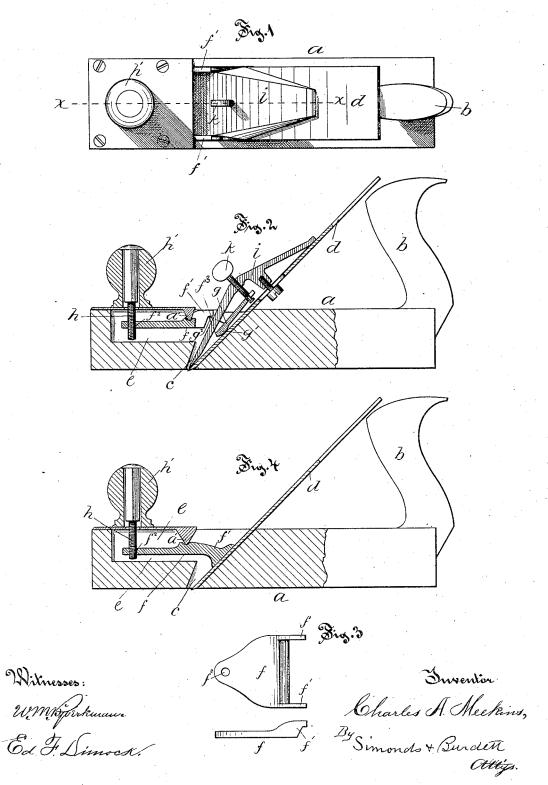
C. A. MEEKINS.

PLANE.

No. 306,507.

Patented Oct. 14, 1884.



UNITED STATES PATENT OFFICE.

CHARLES A. MEEKINS, OF PINE MEADOW, CONNECTICUT.

PLANE.

SPECIFICATION forming part of Letters Patent No. 306,507, dated October 14, 1884.

Application filed March 27, 1884. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. MEEKINS, of Pine Meadow, in the county of Litchfield and State of Connecticut, have invented a certain new and useful Improvement in Planes, of which the following is a description, reference being had to the accompanying drawings, where—

Figure 1 is a plan view of a plane embodyio ing my improvements. Fig. 2 is a view in
longitudinal central section of the same on
plane denoted by line x x of Fig. 1. Fig. 3
is a detail plan view of the clamping-lever.
Fig. 4 is a detail view of a form of my device

15 without the adjusting feature.

My invention relates to the class of planes in which are used clamping and slow-motion devices for the purpose of adjusting the plane-

iron to cut to different depths.

It consists in the clamping device secured in the plane-body in front of the plane-iron, and in the adjusting device, and in the combination of these parts, as more particularly hereinafter described.

In the accompanying drawings, the letter a denotes a plane-body of ordinary form and of any desired material—as wood—having the handle b and the depthwise mortise c, in

which the plane-iron d is held.

In a socket, e, in the plane-body, and in front of the plane-iron, is placed a clamping-lever, f, having the arms f', the ends of which bear upon the upper face of the plane-iron, as seen in Fig. 4, or upon the upper edge of the 35 rocking lever g, which forms a part of the plane-iron-adjusting mechanism. This lever f is fulcrumed on the downward-projecting lugs a', which are fast to or a part of the plane-body, and a screw, h, operates in a threaded 40 socket, f'', in the lever. Fast to this rotary screw h is a handle, h', having a shoulder on

40 Socket, f", in the lever. Fast to this rotary screw h is a handle, h', having a shoulder on its lower end, that bears against the upper surface of the plane-body. By operating the screw h the inner end of the clamping-lever f
45 may be raised or lowered at will, binding or lever in the learning the

loosening the plane-iron.

Fast to the upper side of the plane-iron d is a cap-iron, i, curved lengthwise in such manner as to afford a space between the cap-

iron and the plane-iron for the working of 50 the rocking lever g. This lever is operated by means of an adjusting-screw, k, moving in a socket in the cap-iron, and has a round surface, g', bearing upon the upper surface of the plane-iron, and directly opposite the bearing-face upward-projecting arms g'', that extend through an opening in the cap-iron and take into open sockets f''' on the lower side of the arms f' of the clamping-lever.

The parts being assembled as shown in 6c. Fig. 2 of drawings, the plane-iron is clamped in any desired position in the mortise by means of the lever and the screw h, and the longitudinal adjustment of the plane-iron is effected by means of the screw k, which, by 65 rocking the lever g while the extremity of the short arm of the lever is held in the socket of clamp, which is fixed against longitudinal mo-

tion, thus causes the iron to move.

I claim as my invention—

1. In combination, a plane-body, a, bearing plane-iron d, having a socket, e, in front

of the plane-iron, in which is seated the clamping-lever f, with feet f', arranged to press upon the plane-iron, and the longer arm of the lever moved by means of the threaded screw h, having a handle, h', all substantially as de-

scribed.

2. In combination, a plane-body, a, bearing a plane-iron, d, and having mortise c and 80 socket e, clamping lever f, with feet f', which bear upon the upper face of the plane-iron, and is fulcrumed on lugs a', fast to the plane-body, and has a threaded socket, f^2 , in which the screw h is operated by means of the han-85 dle h', all substantially as described.

dle N, all substantially as described.

3. In combination, in a plane, a plane-iron bearing between the plane-iron and a cap-iron, a bent lever having a curved bearing-surface in contact with the upper surface of the plane-iron, and its shorter arm engaging a socket in the extremity of a clamping-lever, with means for operating the adjusting-lever, all

substantially as described.

CHARLES A. MEEKINS.

Witnesses:

W. H. MARSH, A. C. TANNER.