W. H. KYTE.

BLOCK PLANE.

APPLICATION FILED FEB. 10, 1909.

951,135.

Patented Mar. 8, 1910

2 SHEETS—SHEET 1.

Fig. 1.

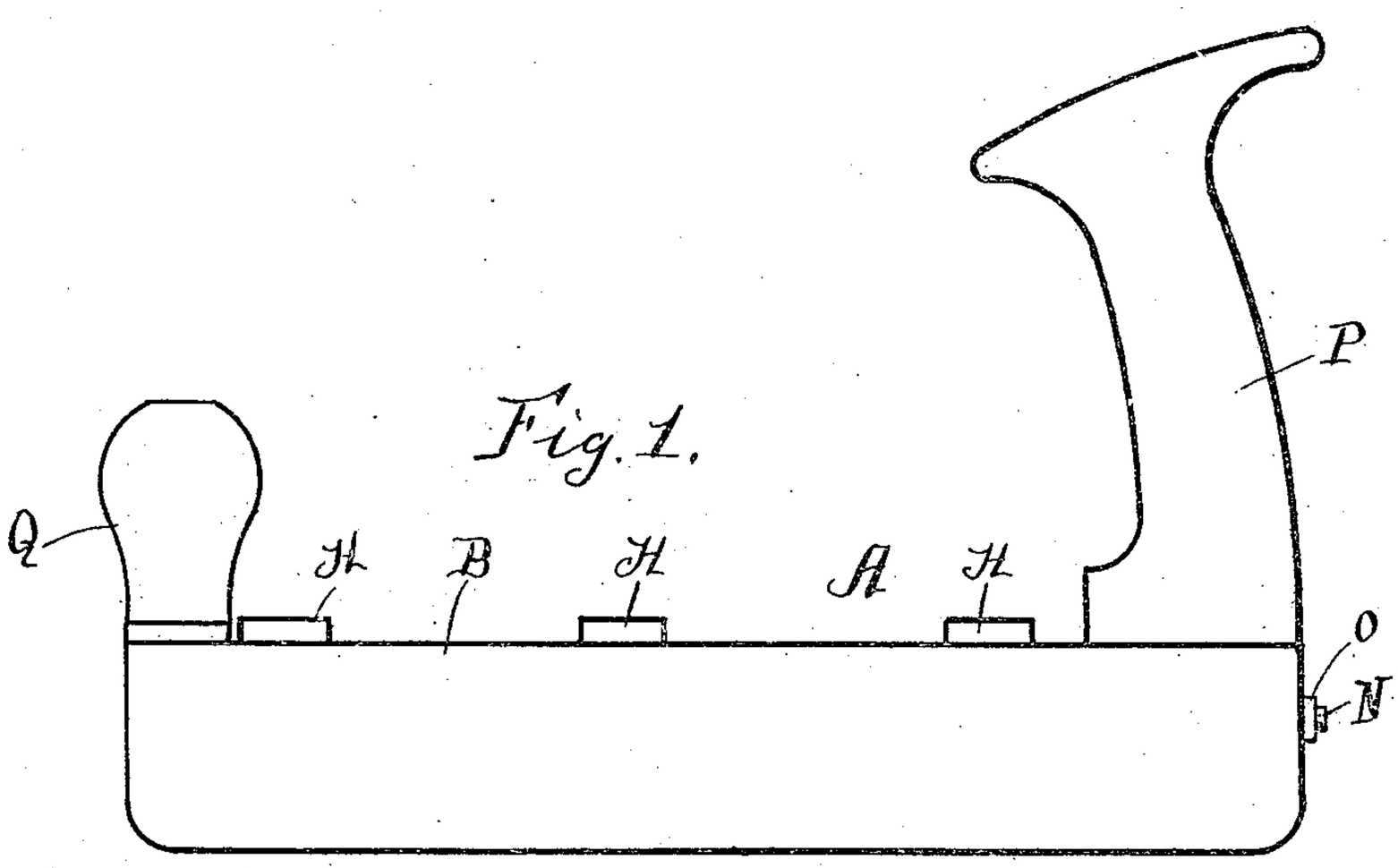
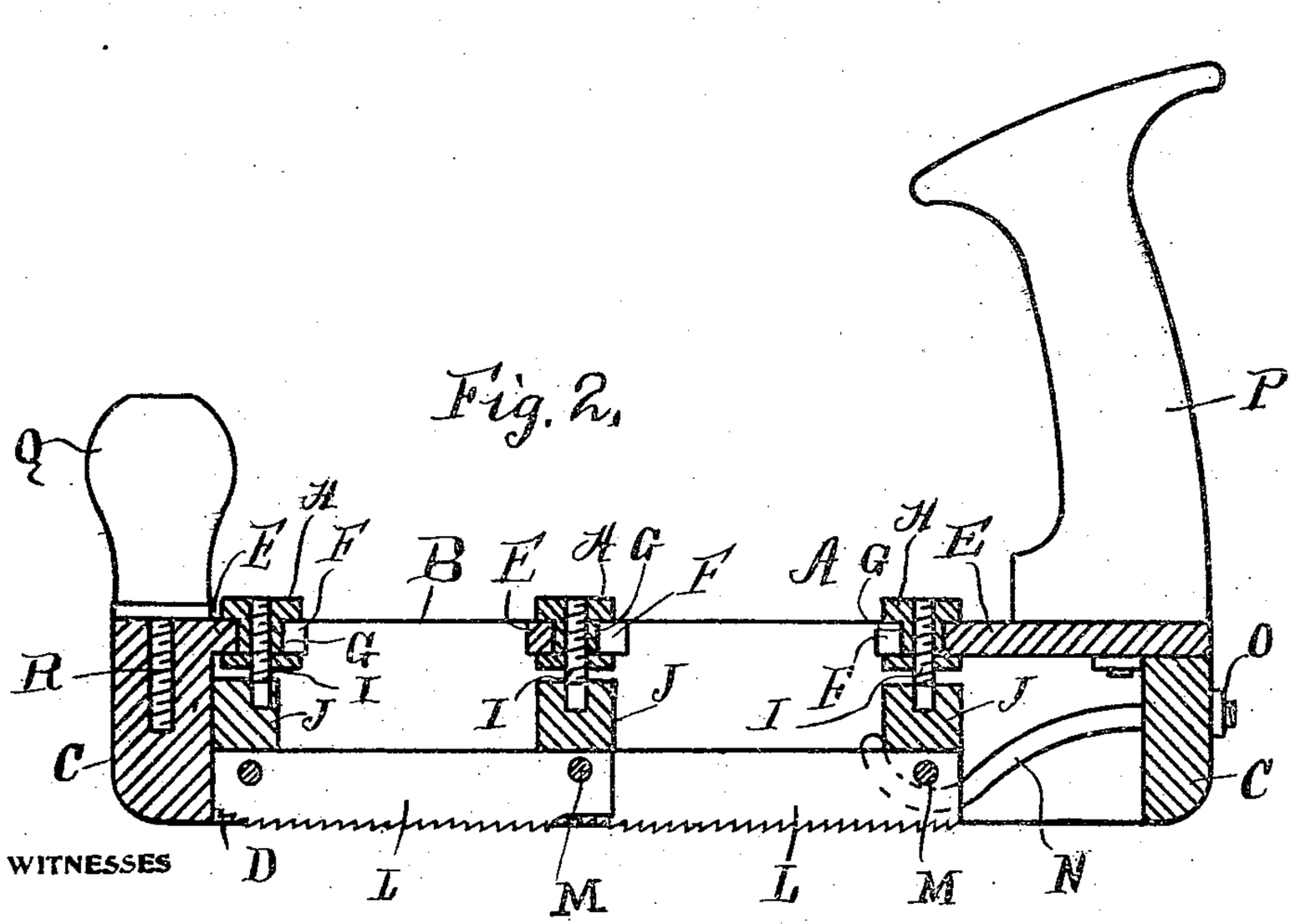


Fig. 2.



WITNESSES

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2 SHEETS—SHEET 2.

Fig. 3.

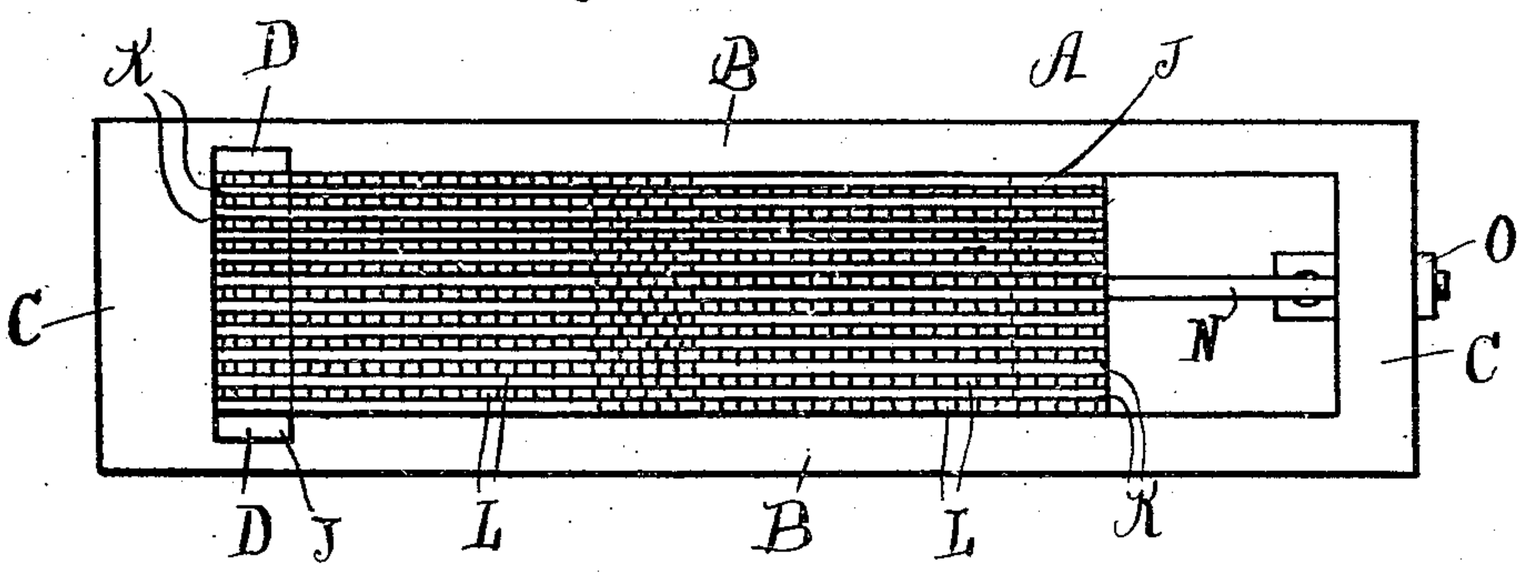
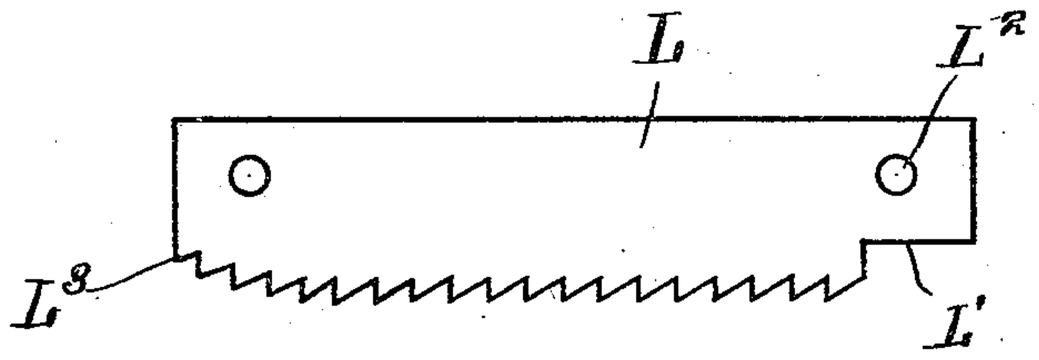


Fig. 4.



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UNITED STATES PATENT OFFICE.

WALTER H. KYTE, OF DORRANCETON, PENNSYLVANIA.

BLOCK-PLANE.

951,135. Specification of Letters Patent. Patented Mar. 8, 1910.

Application filed February 10, 1909. Serial No. 477,066.

To all whom it may concern:

Be it known that I, WALTER H. KYTE, a citizen of the United States, residing at Dorranceton, in the county of Luzerne and State of Pennsylvania, have invented a certain new and useful Improvement in Block-Planes, of which the following is a specification.

My invention relates to a new and useful improvement in block planes, and has for its object to provide an exceedingly simple and effective device of this character, which will cut down, dress and smooth the end grain or cross grain of wood, and is especially adapted for use in preparing blocks which are used by butchers on which meat is placed for cutting.

A further object of my invention is to provide a device of the character described which may be adjusted to cut heavy or light at either the front, center or rear or evenly at all three points as the operator may desire. This adjustment also provides for the wearing away of the teeth of the saw blades.

With these ends in view, this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, I will describe its construction in detail, referring by letter to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a side elevation of my improved block plane. Fig. 2, a longitudinal sectional view thereof. Fig. 3, a bottom view thereof, and Fig. 4, a side elevation of one of the saw blades.

In carrying out my invention as here embodied, A represents the frame, having the sides B and the ends C, said sides being provided with grooves D in their forward ends. With the upper ends of the sides are formed the straps E, having the slots F, into which pass the neck portions G of the nuts H, said nuts being threaded on the screws I, which are secured to the adjustment bars J, said adjustment bars being provided with a plurality of slots K, into which fit the ends of the saw blades L, said blades being secured to the adjustment bars by the pins M.

N denotes a tension bolt, the inner end of which is in the form of a hook, so that it will readily overlap the rear adjustment bar, the outer end passing through the rear end piece and having threaded thereon a nut O, so that the said tension bolt may be moved inward or outward for lessening or increasing the tension.

The saw blades L are cut away at the rear ends, as indicated by L′, which prevents clogging and allows the saw dust to more readily escape, and each of these blades is provided with openings L^2 in its front and rear ends, through which pass the pins M for holding them to the adjustment bars, as hereinbefore described.

The forward ends of the front saws may be rounded as indicated by L^3, which makes it easier to use the plane and allows the operator to cut into hollowed places.

P is the rear handle which is attached to the rear strap of the frame, and Q is the front handle, which is attached to the forward strap and front end by means of the screw R, and when the operator takes hold of this handle the plane may be readily moved backward and forward, cutting away the wood on each forward movement.

Of course I do not wish to be limited to the exact details of construction here shown as these may be varied within the limits of the appended claims without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new and useful, is—

1. In a block plane, the combination of a frame consisting of sides and end pieces, straps having slots therein formed with the upper edges of the sides, adjustment bars having slots formed therein, means for adjusting said adjustment bars, saw blades, the ends of which are fastened to the adjustment bars within the slots, and handles for moving the plane, as specified.

2. In a block plane, the combination of a frame composed of sides, having grooves in the forward ends thereof, front and rear end pieces, straps formed with the upper edges of the sides, said straps having slots therein, nuts, the neck portions of which enter the slots in the straps, adjustment bars having slots formed therein, screws secured to the upper edges of said adjustment bars and adapted to thread into the nuts, saw blades adapted to rest within the slots in the adjustment bars, means for retaining said blades in position, and means for moving the plane forward and backward.

3. In a block plane, the combination of a frame, composed of sides having grooves in the forward ends thereof, front and rear end pieces, straps formed with the upper edges of the sides, said straps having slots therein, nuts, the neck portions of which enter the slots in the straps, adjustment bars having slots formed therein, screws secured to the upper edges of said adjustment bars and adapted to thread into the nuts, saw blades having openings formed therein and a portion cut from their rear ends adapted to rest within the slots in the adjustment bars, pins for retaining the saw blades in position, means for producing a tension upon said blades, and handles secured to the rear and front of the frame, as and for the purposes set forth.

4. In a block plane, the combination of a frame composed of sides having grooves in the forward ends thereof, front and rear end pieces, straps formed with the upper edges of the sides, said straps having slots therein, nuts, the neck portions of which enter the slots in the straps, adjustment bars having slots formed therein, screws secured to the upper edges of said adjustment bars and adapted to thread into the nuts, saw blades having openings formed therein and a portion cut from their rear ends adapted to rest within the slots in the adjustment bars, pins for retaining the saw blades in position, a tension bolt, the forward end of which is so formed as to produce a hook adapted to loop over the rear adjustment bar, the rear of said bolt passing through the rear end of the frame, a nut threaded on said bolt, and rear and front handles secured to the frame.

In testimony whereof, I have hereunto affixed my signature in the presence of two subscribing witnesses.

WALTER H. KYTE.

Witnesses:
OLIN F. HARVEY, JR.,
F. W. LARNED.