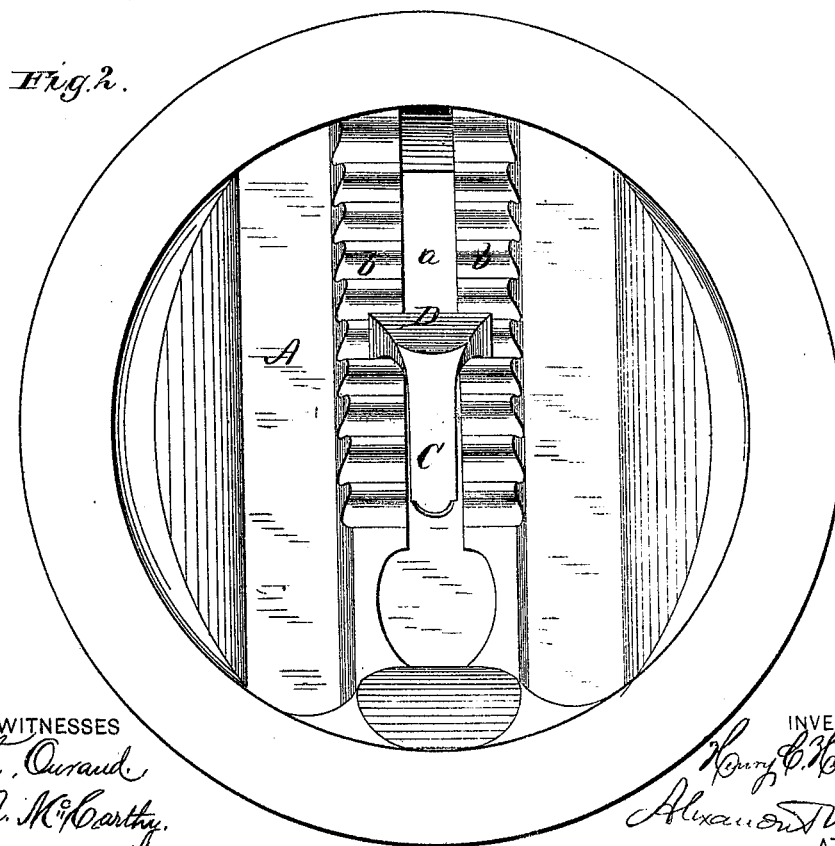
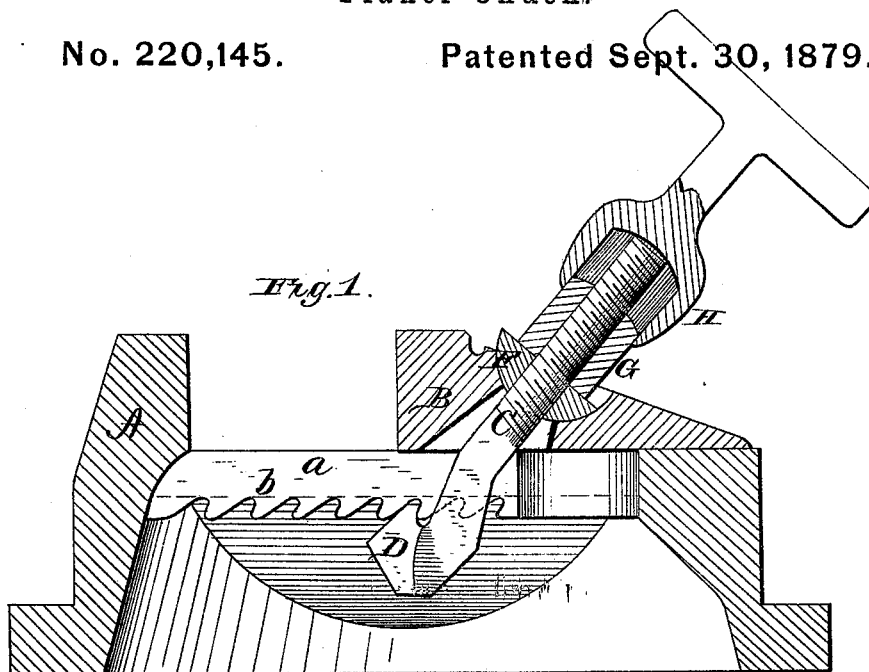


H. C. HECKENDORN.  
Planer-Chuck.

No. 220,145.

Patented Sept. 30, 1879.



WITNESSES  
F. L. O'Rand.  
J. J. McCarthy.

INVENTOR  
H. C. Heckendorn  
Alexander & Masters  
ATTORNEYS

# UNITED STATES PATENT OFFICE.

HENRY C. HECKENDORN, OF READING, PENNSYLVANIA, ASSIGNOR OF ONE-HALF OF HIS RIGHT TO W. HENRY WILHELM, OF SAME PLACE.

## IMPROVEMENT IN PLANER-CHUCKS.

Specification forming part of Letters Patent No. **220,145**, dated September 30, 1879; application filed June 24, 1879.

*To all whom it may concern:*

Be it known that I, HENRY C. HECKENDORN, of Reading, in the county of Berks, and in the State of Pennsylvania, have invented certain new and useful Improvements in Planer-Chucks; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a planer or machine chuck, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a central vertical section of my improved planer-chuck. Fig. 2 is a bottom view of the same.

A represents the chuck-bed forming the stationary jaw, and having a central slot, *a*, and made hollow underneath. On the under side of the bed, on each side of the slot *a*, is a series of ratchet-teeth, *b*, as shown.

B is the movable jaw of the chuck. C is the fastening-bolt, formed at its lower end with a hook, D, to take into the ratchet-teeth on both sides of the slot. This bolt passes in

an inclined or diagonal position through the slot *a*, and through an opening in the jaw, and said bolt being made universal through the means of a hemispherical washer, F, seated in a corresponding recess in the upper side of the jaw.

G is a nut screwed on the bolt by means of a wrench, H, for fastening the parts.

By means of the inclined or diagonal position of the bolt the jaw is drawn firmly against the work, and at the same time tightened against the bed-plate of the chuck. The ball-joint allows the chuck to be used for taper or irregular work.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination of the chuck-bed A, forming the stationary jaw, and having slot *a*, and which is provided with ratchet-teeth *b*, the movable jaw B, bolt C, having hook D, the hemispherical washer F, and the nut G, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 14th day of June, 1879.

HENRY C. HECKENDORN.

Witnesses:

H. A. ZIEBER,  
C. HOLTON.