No. 828,787. PATENTED AUG. 14, 1906.

F. VAN CAUWENBERGH.

HAND VISE.

APPLICATION FILED NOV. 7, 1905.

Fig. 1.

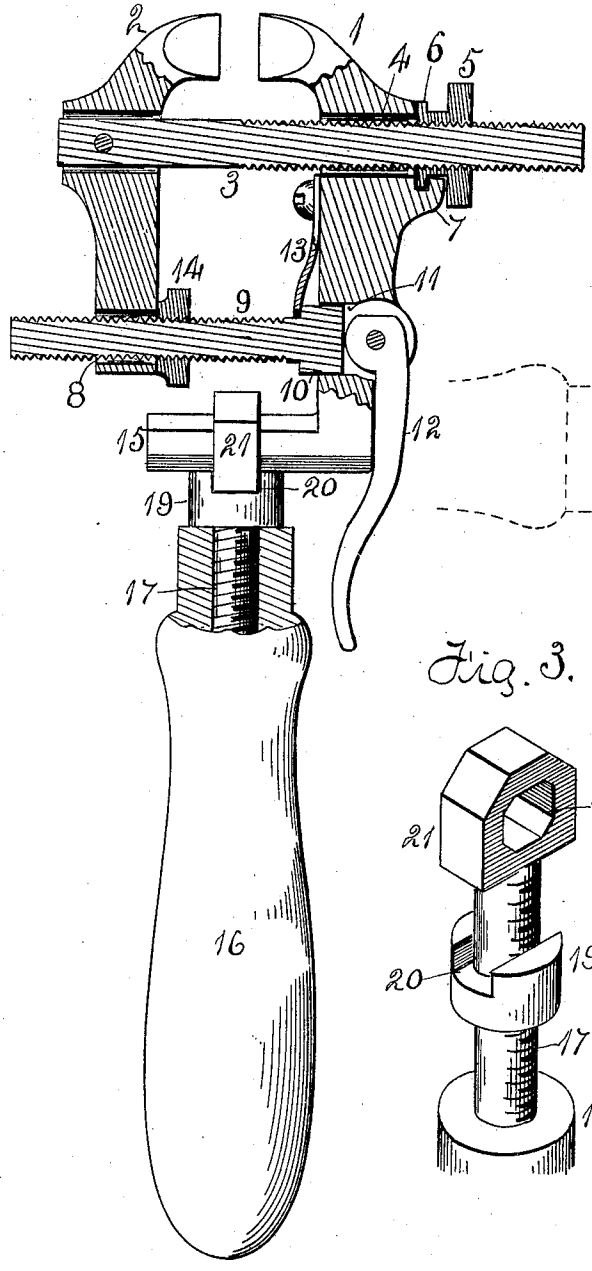


Fig. 2.

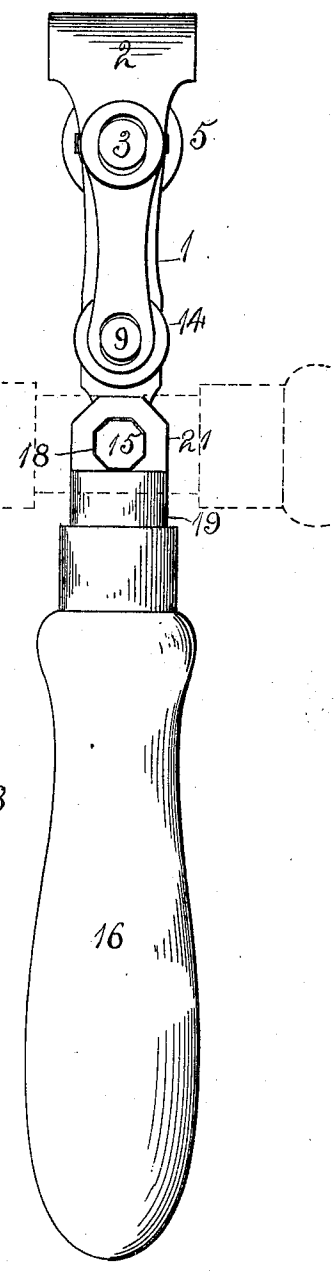


Fig. 3.

Witnesses:
I Sovereign
E. Behel

Inventor:
Frank Van Cauwenbergh
By A. O. Behel.
Atty.

THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FRANK VAN CAUWENBERGH, OF ROCKFORD, ILLINOIS.

HAND-VISE.

No. 828,787. Specification of Letters Patent. Patented Aug. 14, 1906.

Application filed November 7, 1905. Serial No. 286,180.

To all whom it may concern:

Be it known that I, FRANK VAN CAUWENBERGH, a citizen of the United States, residing at Rockford, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Hand-Vises, of which the following is a specification.

The object of this invention is to construct a hand-vise in which the movable jaw can be adjusted bodily toward the fixed jaw and after being properly adjusted against the work is given an additional movement to more securely clamp the work.

In the accompanying drawings, Figure 1 is an elevation, partly in section, of my improved hand-vise. Fig. 2 is an edge view. Fig. 3 is an isometrical representation of end of handle which has a connection with the vise.

The vise proper comprises the fixed jaw 1 and movable jaw 2. To the movable jaw 2 is pivoted a screw 3, which extends through an opening 4 in the fixed jaw 1. A screw-nut 5 has an inner flange 6, which is held against lengthwise movement by the projection 7, extending from the fixed jaw. The lower end of the pivoted jaw 2 has an opening 8, within which is located a screw 9. The other end 10 of this screw 9 is flattened and is located in a rectangular opening 11 in the stationary jaw 1. Within the rectangular opening 11 of the stationary jaw 1 is pivoted a cam-lever 12. A spring 13 is secured to the inner face of the stationary jaw 1 and bears against the enlarged end 10 of the screw 9, holding it against the cam-lever 12. A screw-nut 14 has a connection with the screw 9 and is located to bear against the inner face of the movable jaw 2. The fixed jaw 1 has an eight-sided extension 15.

A handle 16 has a screw-threaded opening in one end. A screw-threaded shank 17 is turned in connection with the screw-threaded opening in the handle. This shank has an eight-sided opening 18, within which is located the projection 15, extending from the fixed jaw. A collar 19 has a central opening which receives the screw-threaded shank 17 in a manner to slide thereon. This collar has a slot 20 in one face which receives the rectangular head 21 of the shank 17.

With the projection 15, located in the opening in the head 21, by turning the handle 16 the end of the handle is brought against the collar 19, and it in turn against the projection, thereby clamping the handle securely to the fixed jaw of the vise. The handle can be adjusted in the lengthwise direction of the projection 15 or turned into the position shown in dotted lines, Fig. 2.

By means of the two screw-nuts 5 and 14 the movable jaw can be moved bodily toward or from the fixed jaw to accommodate the size of the material to be held between the jaws. When the movable jaw has been properly adjusted against the work, the cam-lever is moved into the position shown in Fig. 1, which will increase the holding of the jaws by imparting to the lower end of the movable jaw a further movement from the fixed jaw.

I claim as my invention—

1. A hand-vise comprising a fixed jaw, a bodily-movable jaw, a non-rotatable screw having a pivotal connection with the movable jaw and a screw-thread engagement with the fixed jaw, a non-rotatable screw having a screw-thread engagement with the movable jaw and a sliding engagement with the fixed jaw, a cam-lever pivotally supported by the fixed jaw and having an engagement with the last-mentioned screw by which a lengthwise movement is imparted to the screw.

2. A hand-vise comprising a fixed jaw, and a movable jaw, a screw having a pivotal connection with the movable jaw and passing through the fixed jaw, a screw-nut located on the screw, and held against lengthwise movement by the fixed jaw, a second screw having a sliding engagement with the movable jaw, a screw-nut on the second screw, and adapted to bear against the movable jaw, the second screw having a sliding engagement with the fixed jaw, a cam-lever pivotally supported by the fixed jaw against which the second screw rests, and a spring exerting its force on the second screw to hold it in contact with the cam-lever.

3. A hand-vise comprising a fixed jaw and a movable jaw supported by the fixed jaw, the fixed jaw having a projection independent of the support of the movable jaw extending at right angles to its length, and a handle embracing the projection and bodily adjustable lengthwise or axially thereon.

FRANK VAN CAUWENBERGH.

Witnesses:
A. O. BEHEL,
E. BEHEL.