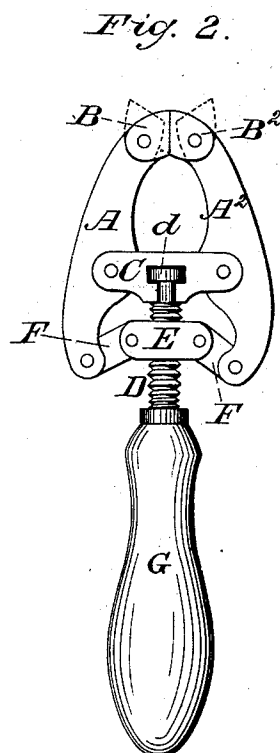
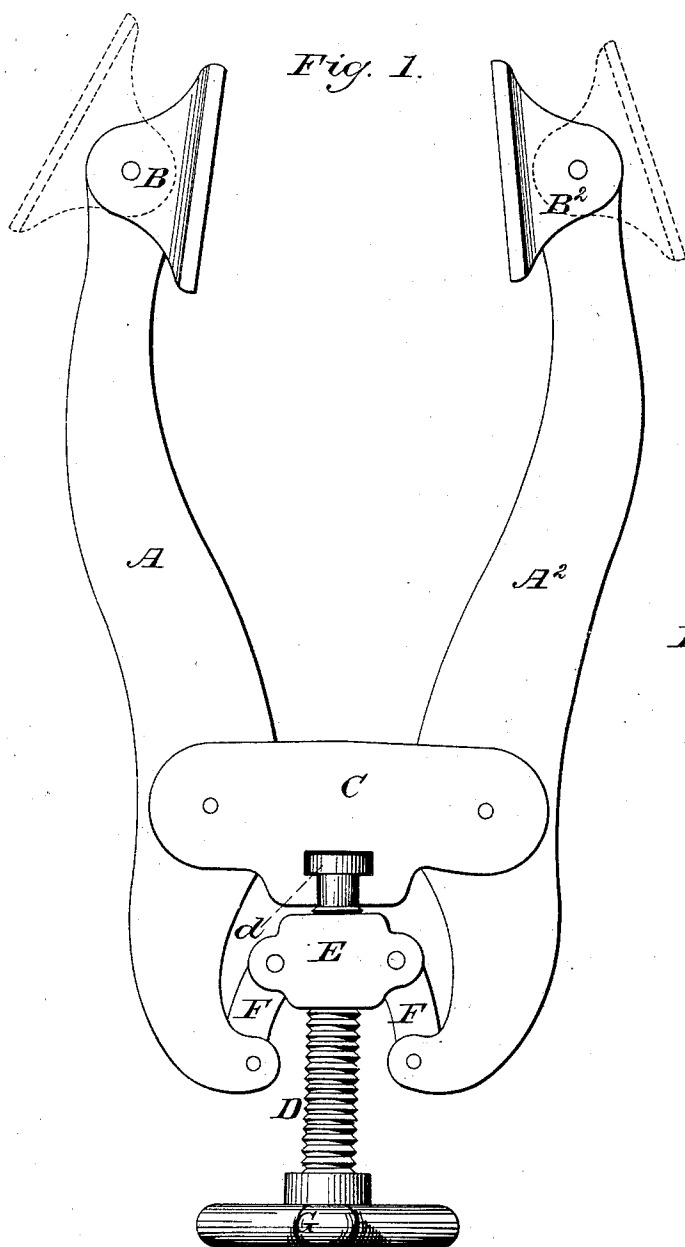


A. C. STOCKMAR.
Hand Vise or Clamp.

No. 57,447.

Patented Aug. 21, 1866.



Witnesses:

*L. O. Gordon
J. Ponge*

Inventor:

*Alexander C. Stockmar by
Abiding Boone atty.*

UNITED STATES PATENT OFFICE.

ALEXANDER C. STOCKMAR, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF
AND WILLIAM S. SEE.

IMPROVEMENT IN HAND VISES OR CLAMPS.

Specification forming part of Letters Patent No. 57,447, dated August 21, 1866.

To all whom it may concern:

Be it known that I, ALEXANDER C. STOCKMAR, of the city, county, and State of New York, have invented, made, and applied to use certain new and useful Improvements in the Construction and Operation of Clamps and Hand-Vises; and I do declare the following to be a full, clear, and correct description of the same, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, in which—

Figure 1 is a view of my improved clamp, the same being shown open; Fig. 2, a view of my improved hand-vise, the same being shown closed.

In the drawings like parts of the invention are designated by the same letters of reference.

The nature of my invention consists in certain new and useful improvements in the construction and operation of clamps and hand-vises, as hereinafter set forth.

To enable others skilled in the arts to make and use my invention, I will describe the same.

A and A² show the limbs of my improved clamp or hand-vise, to which are attached, at their upper ends, the jaws B and B², riveted thereto, so that they may be freely turned upon the pins passing through them.

In the case of the bench-clamp it will be observed that these jaws B and B² are so constructed that they can be turned over the upper ends of the limbs A and A², to which they are pinned, thus bringing the faces of the jaws B and B² outward instead of inward—the position they usually occupy.

At about one-third of the length of the limbs A and A², and near the lower extremities of the same, is the cross-piece C, having its ends slotted to receive the limbs A and A², held within the same, and its lower side slotted to receive and form a bearing for the roller *d* upon one end of the screw D.

E is a nut, to the sides of which are attached the toggles F F, having their opposite ends attached to the lower extremities of the limbs A and A². D shows a screw passing through the nut E, and provided with the roller *d*, having its bearing in the lower side of the cross-piece C, and G is a handle upon the screw D.

My improved clamp or hand-vise being thus constructed, when desired to use the same, the limbs A and A² being away from each other, (see Fig. 1,) to bring them together, thus enabling any suitable article to be grasped between them, the screw D is turned inward, and as it rises through the nut E the same is depressed, by which operation the toggles F F, attached to the nut and the limbs A and A² at their lower extremities, are thrown out in nearly a direct line, thus bringing together the opposite ends of the limbs A and A², to which are attached the jaws B and B².

When desired to release the jaws from contact with the article grasped, the motion of the screw is reversed, and the operation just described is reversed.

The jaws B and B² are made self-adjusting, and in the case of the clamp, Fig. 1, can be turned entirely over the limbs A and A², so that their faces will face outward, thus allowing articles, when desired, to be held upon the clamp by throwing the limbs A and A² away from each other.

My improvement will be found of utility to carpenters, cabinet-makers, and artisans generally, its durability and simplicity allowing it to be afforded at a slightly-increased cost above the clamp usually employed.

I am well aware of the patent granted Charles Buss, in which a wedge is used to contract the jaws of a clamp or hand-vise, and I am aware that said jaws cannot be automatically thrown away from each other, as is effected in my present application by the use of the toggles, attached as shown. I therefore distinctly disclaim the device patented by Charles Buss.

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

In combination with the limbs to which are attached the jaws, the use or employment of the nut, screw, and toggles, when the same shall be constructed and operated substantially as and for the purpose set forth.

ALEXANDER C. STOCKMAR.

In presence of—

A. SIDNEY DOANE,
C. O. GORDON.