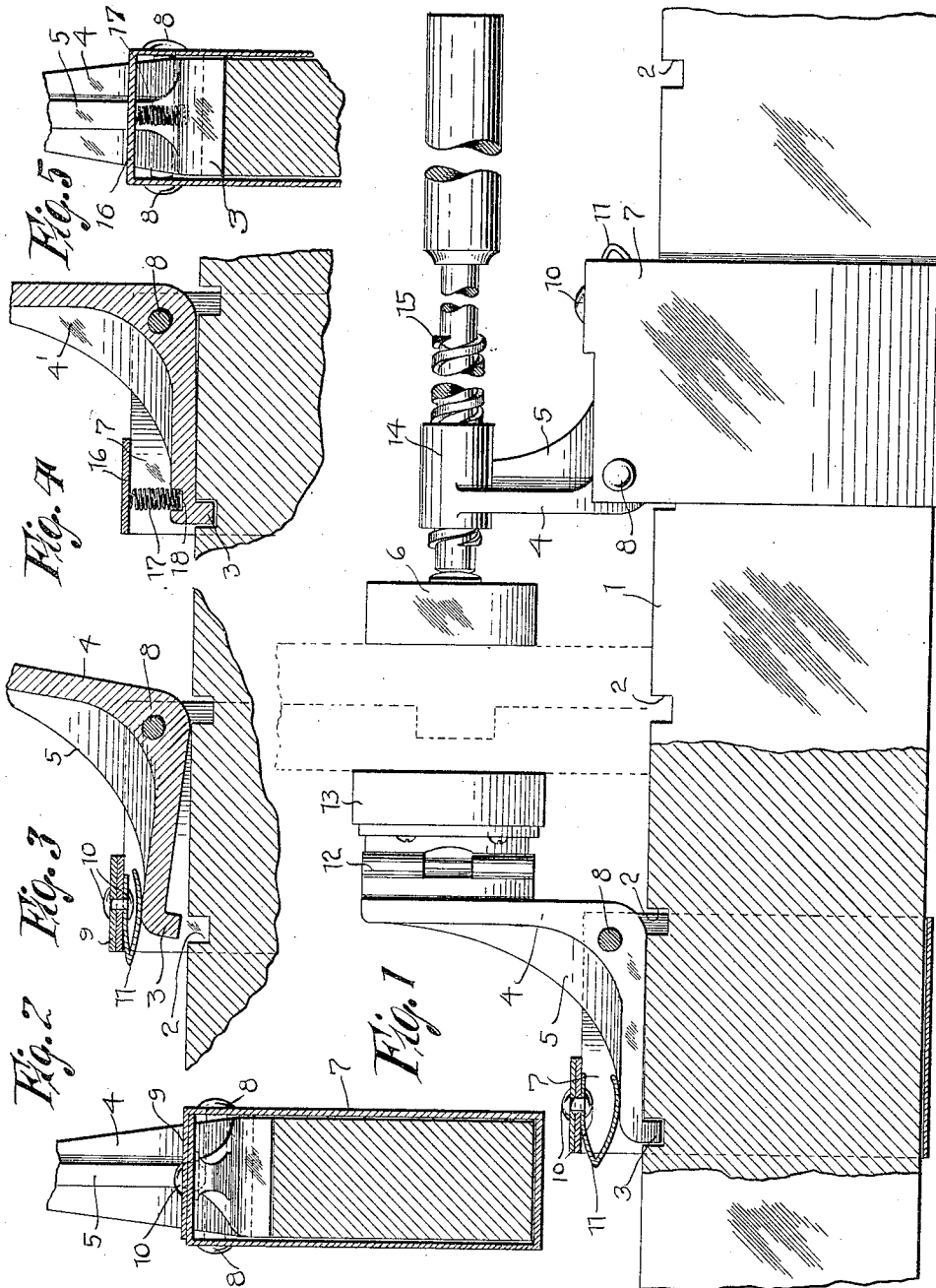


S. W. HAINES.
CABINET CLAMP.
APPLICATION FILED MAR. 26, 1912.

1,045,974.

Patented Dec. 3, 1912.



WITNESSES

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SAMUEL W. HAINES, OF SPARTA, MICHIGAN.

CABINET-CLAMP.

1,045,974.

Specification of Letters Patent.

Patented Dec. 3, 1912.

Application filed March 26, 1912. Serial No. 686,341.

To all whom it may concern:

Be it known that I, SAMUEL W. HAINES, a citizen of the United States, residing at Sparta, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Cabinet-Clamps, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to clamps, and has particularly for its object the production of a simple means for firmly holding the adjustable portions of said clamp in a set position.

The clamp is especially adapted to be used in connection with holding woodwork in cabinet making and also has for its object the production of a simple and cheap means for supporting the work in an adjusted position.

With these and other objects in view this invention consists of certain novel constructions, combinations, and arrangements of parts, as will be hereinafter fully described and claimed:—

In the drawings: Figure 1 is a side elevation of a work clamp partly in section. Fig. 2 is a fragmentary transverse section taken through the clamp. Fig. 3 is a fragmentary longitudinal section thereof. Fig. 4 is a longitudinal section of an embodiment of my invention. Fig. 5 is a transverse section thereof.

Referring to the drawings by numerals 1 designates the clamping bar which is provided with a plurality of transversely extending grooves 2 which are adapted to be engaged by the depending flange 3 carried by the pivoted clamping member 4. This clamping member 4 is provided with a bracing web 5 which reinforces the pivoted clamping member 4 so as to relieve the strain upon the clamping member when engaged by the rotating clamping head 6. This clamping member 4 comprises a substantially right angle plate which is pivotally secured to the surrounding casing 7 by means of a pin 8. This surrounding casing 7 is provided at one end with a pair of overlapping lips 9 being secured by means of a rivet 10. A flat spring 11 is secured to said lips by means of the rivet 10 and this spring also engages at its lower end the clamping member 4 practically above the depending lip 3 so as to exert an effective pressure upon the clamping member at the

most desirable point whereby the same will be held in engagement with the clamping bar 1. This spring 11 is widened at its end, being slightly narrower at its folded portion as illustrated in Fig. 2. The clamping member 4 carries a hinge section 12 one leaf of which hinge carries a vertical clamping head 13. Two of these clamping members are preferably employed one of which clamping members carries a sleeve 14 within which is rotatably mounted a screw clamp 15 which carries a head 6.

In Fig. 4, I have shown a modified form of my invention wherein the surrounding casing 7 carries a bridge portion 16 from which is depended a coil spring 17. This coil spring has its lower end seated in a socket 18 formed in the clamping member 4'. The clamping member 4' is formed similar to the clamping member 4 as illustrated in Fig. 1 being provided with a depending lip 3. Of course, this spring 17 is supported by the clamping member adjacent the depending lip 3 so as to effectually cooperate therewith.

From the foregoing description, it will be obvious that I have produced a very efficient and durable clamp for woodwork wherein the same may be adjusted to accommodate different sized work. It will also be obvious that the clamps may be easily released from the clamping bar by merely swinging the clamping member 4 upon its pivot thereby drawing the lip 3 out of engagement with the slot or notches 2.

What is claimed is:—

1. A clamp comprising a clamping bar being provided with a plurality of transverse notches, an adjustable surrounding casing slidably mounted thereon, a pivoted clamping member carried by said surrounding casing, said clamping member being provided with a depending lip extending the entire width of said clamping member, said surrounding casing being provided with an overhanging bridge, spring means interposed between said bridge and said clamping member for exerting a downward pressure upon said clamping member just above said depending lip for effectually holding said lip in one of the notches formed upon the clamping bar.

2. A clamp of the class described comprising a clamping bar, a surrounding casing, overlapping lips carried by said surrounding casing, a clamping member carried by

said casing, a leaf spring fixedly secured to the under side of said lips and engaging said clamping member, said clamping member being provided with a depending lip, said
5 clamping bar being provided with a plurality of transverse notches being adapted to receive said lip, said leaf spring being narrower at the junction of said leaves than at the ends thereof and said leaf spring en-
10 gaging said clamping member approxi-

mately above said depending lip of said clamping member for firmly holding said lip in engagement with one of said notches.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

SAMUEL W. HAINES.

Witnesses:

A. B. CHENEY,
JOHN NELSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
