

J. A. TRAUT.
Improvement in Clamps.

No 131,195.

Patented Sep. 10, 1872.

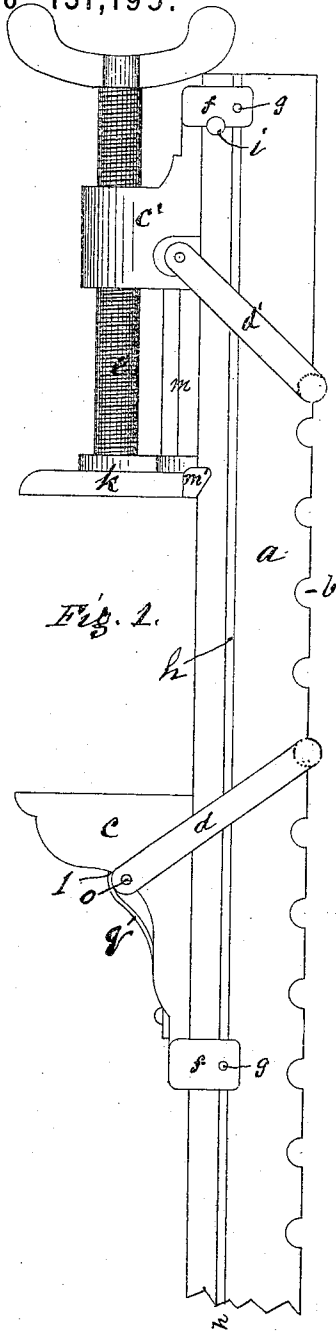


Fig. 1.

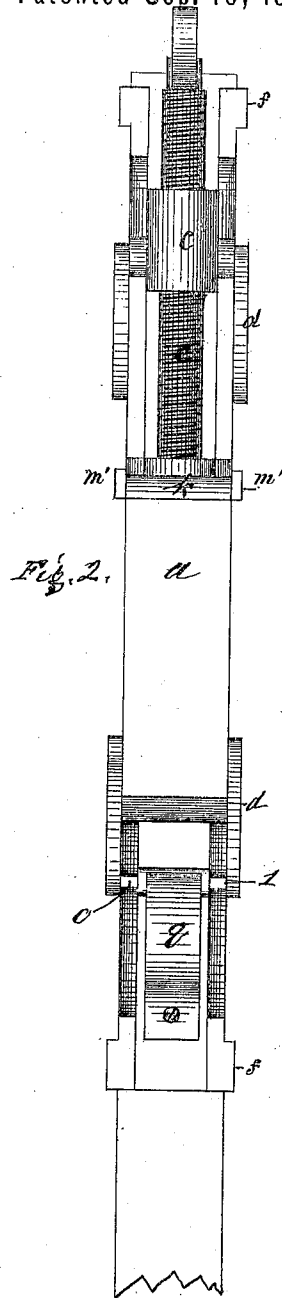


Fig. 2.

Witnesses.

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JUSTUS A. TRAUT, OF NEW BRITAIN, CONNECTICUT.

IMPROVEMENT IN CLAMPS.

Specification forming part of Letters Patent No. 131,195, dated September 10, 1872.

To all whom it may concern:

Be it known that I, JUSTUS A. TRAUT, of New Britain, county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Clamps, commonly used by cabinet-makers, carpenters, &c., for compressing frame or panel work firmly to a joint; and to enable others skilled in the art to make and use the same I will proceed to describe its construction, referring to the drawing, in which the same letters indicate like parts in each of the figures.

In the accompanying drawing, Figure 1 is a side view of this improvement. Fig. 2 is a top or edge view of the same.

a is a clamp-bar, having notches *b* formed at proper intervals in one side of said bar. *c c'* are clamp-heads, adjusted and firmly held upon the upper side of the clamp-bar *a* by grappling-irons *d d'*, one end of which is secured to the heads *c c'*, while the other end enters the notches *b*. The head *c'* is provided with a screw-threaded-nut elevation, into which is fitted closely, and turns freely, a clamping-screw, *e*. Both of the heads are provided with guide-plates, *f*, which extend down each side of the bar *a*, and having guide-pins *g*, which are fitted into grooves *h* in each side of said bars, and prevents the back end of the heads from being displaced from the bar. A pin or screw, *i*, is placed, when desirable, in front of the guide-plates *f* to steady or hold the clamp-head *c'* firmly in a fixed position upon the bar. *k* is a clamping face-plate, having a sliding guide, *m*, which is fitted to and slides on the upper side of the clamp-bar *a* through the head *c'*; also having

on each side thereof guide-plates *m'* to keep it (the clamping-plate *k*) in a true position on the clamp-bar. The end of the screw *e* is fitted and secured to turn freely in the back of the clamping-plate *k*, so that it will move the plate *k* back and forth on the bar *a* by the action of said screw in the common way.

The clamp-head *c* is fitted to the clamp-bar *a*, the face-plate portion of which is held in true position on the clamp-bar by the grappling-iron *d* by means of a spindle, *o*, having its bearing in the angles of the head *c* at *l*, the upper side of which is flattened to form a bearing for the spring *q*, which is secured by a pin or screw on the upper side and rear end of the head *c*.

Thus I am enabled to produce a clamp which will hold its parts together in ready working order, and is susceptible of being used with convenience in any desired position without the annoyance commonly experienced in the use of this class of tools.

Having thus shown the nature, construction, and advantage of this invention so as to enable others skilled in the art to make and use the same therefrom, what I claim, and desire to secure by Letters Patent, is—

An improved manufacture of clamp, viz.: the combination of the adjustable heads *c c'*, face-plates *k*, screw *e*, spring *q*, grapple-irons *d*, and bar *a*, substantially as shown and set forth.

JUSTUS A. TRAUT. [L. S.]

Witnesses:

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