

1,262,489.

Patented Apr. 9, 1918.

Fig. 1.

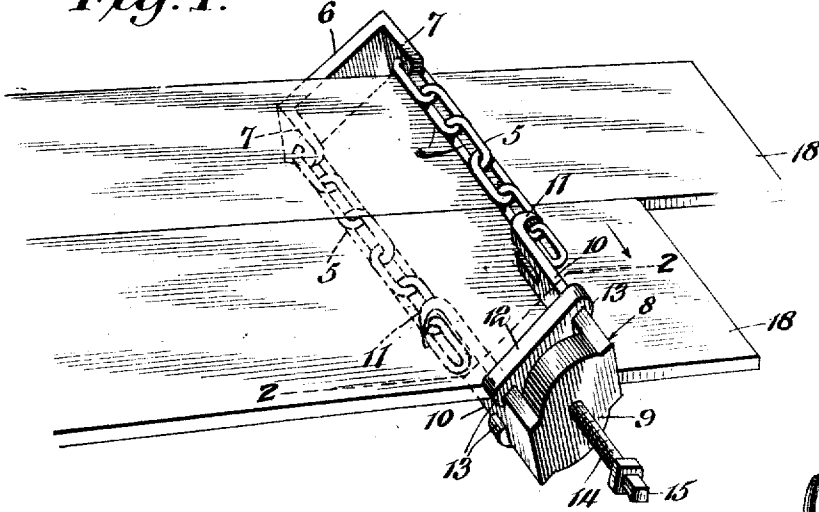


Fig. 5.



Fig. 4.

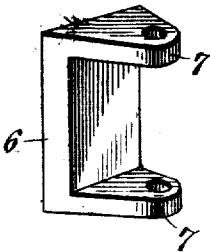


Fig. 3.

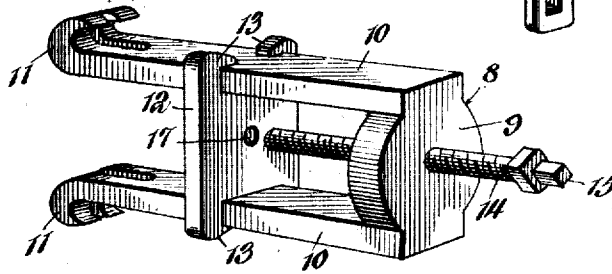
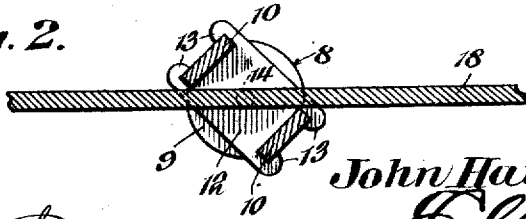


Fig. 2.



WITNESSES

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CLAMP.

1,262,489.

Specification of Letters Patent.

Patented Apr. 9, 1918.

Application filed September 10, 1917. Serial No. 190,569.

To all whom it may concern:

Be it known that I, JOHN HAWK, a citizen of the United States, residing at Binghamton, in the county of Broome and State of New York, have invented a new and useful Clamp, of which the following is a specification.

The invention relates to a clamp, and has for its primary object to provide an article of this character, which is particularly adaptable for securing and holding two or more pieces of work in correct relation in a substantial manner for gluing or other purposes, without possibility of the work or clamp becoming deranged.

Another object of the invention is the provision of a clamp of this character, wherein the construction thereof is novel in form, to render it effective in operation, easy to manipulate, quickly detachable, strong, durable, and inexpensive in manufacture.

The invention further has for its object to improve devices of the indicated character, in varying particulars, to the end that efficiency in operation may be promoted, as well as simplicity in construction, and convenience of adjustment and control.

The invention will be particularly explained in the specific description following:

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all views:

Figure 1, is a fragmentary perspective view of several pieces of work, showing the clamp constructed in accordance with the invention applied.

Fig. 2, is a sectional view on the line 2—2 of Fig. 1, looking in the direction of the arrow.

Fig. 3, is a perspective view of the follower clamping part.

Fig. 4, is a perspective view of the other clamping part.

Fig. 5, is a perspective view of the operating handle or lever.

In constructing a practical embodiment of the invention in accordance with the illustrated example, the pair of chains 5, is provided, each comprising a series of links of elongated oval form, although any other type of link chain may be used and of the required length.

Permanently connected with the chains 5,

at one end, is a substantial U shaped clamping part 6, constituting a straddling tail jaw, the ends of the latter providing ears 7, having suitable holes for loosely receiving the terminal links of said chains, which in this manner are connected to the tail jaw.

The chains 5 at their other ends are adjustably and detachably connected to a substantially U-shaped follower clamping part 8, which constitutes a straddling head jaw, the crown 9 of which is of substantially circular shape, and the side limbs 10 are flat, and in spaced parallel relation to each other.

The limbs 10 at their ends are formed with bifurcated outwardly curled hook like claws 11, in which are adapted to be engaged the links of the chains 5, for connecting the jaws in properly spaced relation to each other.

To connect the chains 5 to the claws 11, the selected links thereof are passed into the bifurcations, so that the adjacent links will engage in the claws 11, thereby holding the chains 5 connected with the head jaw.

It will be apparent, that this head jaw is adjustably and detachably connected with the chains 5, so as to properly fit the clamp to the work.

Slidably mounted between the limbs 10, of the head jaw, is the follower plate 12, which is formed with the notched ends 13, engaging the edges of the limbs 10, for the slidable connection of the follower plate in the head jaw.

Threaded centrally through the crown 9 of the head jaw, is a feed screw 14, which is provided with a shouldered outer wrench engaging end 15, for the detachable connection therewith of an operating wrench or lever handle 16, while the inner end of the screw 14, fits within a counterseat 17, in the follower plate 12, which is engaged against the work when the clamp is applied thereto, to hold the pieces of work firm and substantial, the screw 14, being designed to move the follower plate against the work.

In applying the clamp, the jaws are connected by the chains 5, to properly hold the pieces of work, for example, as shown in Fig. 1 of the drawing, and when the work is in the form of boards 18, of relatively narrow thickness, the jaws are set at an angle, so that the uppermost ears 7, and limbs 10 at their edges adjacent to the top surfaces of the boards will contact, therewith, while the lowermost ears 7 and limbs

10, will have their edges next to the bottom surfaces of said board contacting therewith, thus sustaining the boards in the same plane common to each other.

5 It is to be understood that the clamp is capable of holding work of various thicknesses and widths, and of various characters, the clamp being especially designed for use by cabinet makers, carpenters, or other
10 like artificers.

When the clamp is properly positioned on the work, the feed screw 14, is turned to advance the follower plate 12, against said work to firmly hold it in the clamp.

15 The clamp possesses but few parts, is readily portable, and when not in use, can be stored in the least possible space. The clamp in action draws from both sides of the work, so that the pressure thereon is
20 distributed.

From the foregoing, it is thought that the construction and manner of use, as well as the operation of the invention, will be clearly understood, and, therefore, a more
25 extended explanation has been omitted.

What is claimed is:—

1. A clamp comprising a substantially U-shaped tail jaw formed with terminal ears, chains permanently connected with the ears,
30 a substantially U-shaped head jaw, bifurcated claws on the ends of said head jaw for adjustably and detachably receiving the

links of said chains, a follower plate slidably fitted in the head jaw, and means for adjusting the follower plate.

2. A clamp comprising a pair of straddling jaws, chains permanently connected with one of said jaws, bifurcated claws formed at the ends of the other jaw for adjustably and detachably receiving the links
40 of said chains, a follower plate slidably fitted in one of the jaws, and a feed screw mounted in the jaw having the follower plate for adjusting the latter.

3. A clamp comprising a substantially U-shaped tail jaw formed with terminal ears to straddle the work, chains permanently connected with the ears, a substantially U-shaped head jaw having side limbs to straddle the work, claws at the end of the limbs
50 for detachably receiving the links of said chains, a follower plate slidable in the head jaw between the limbs for engaging the work, and a feed screw mounted in the head jaw and engaging the follower plate
55 to move the same.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN HAWK.

Witnesses:

W. F. SHAFER,
G. M. GARDNER.