

S. R. PARADISE.
CLAMPING DEVICE.
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976,828.

Patented Nov. 22, 1910

Fig. 1.

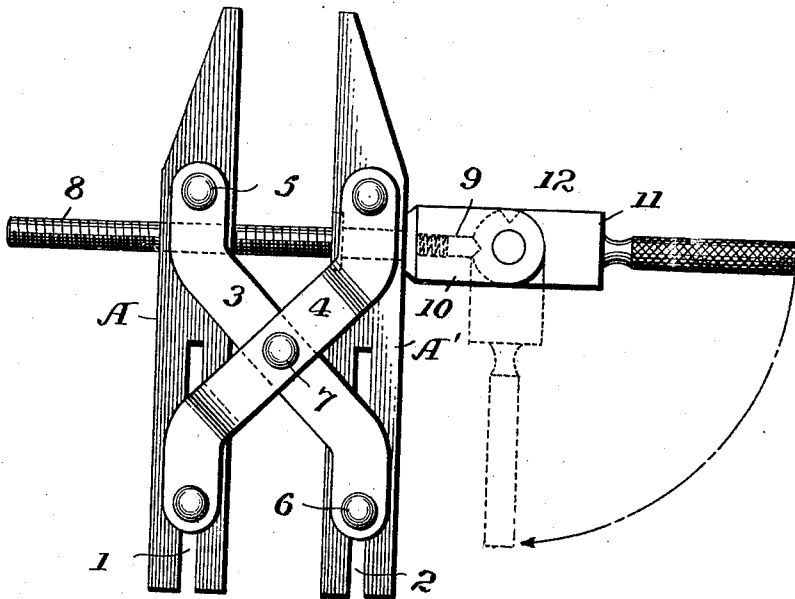
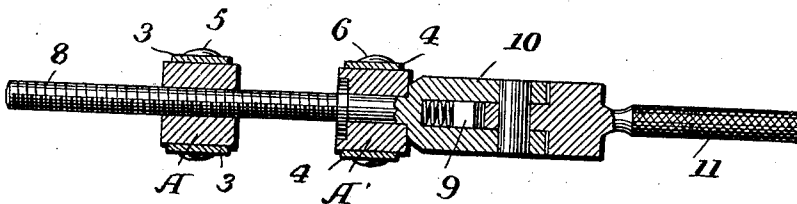


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

SAMUEL R. PARADISE, OF VALPARAISO, INDIANA.

CLAMPING DEVICE.

976,828.

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To all whom it may concern:

Be it known that I, SAMUEL R. PARADISE, a citizen of the United States, residing at Valparaiso, in the county of Porter and State of Indiana, have invented new and useful Improvements in Clamping Devices, of which the following is a specification.

This invention relates to an improvement in clamps and the particular object of said invention is to provide a clamp which may be quickly and securely attached to the object which it is adapted to support.

A further object of the invention is to so construct a device that the same may be manipulated by one hand of the operator in order that he may use the other hand for supporting the work to be clamped. The device may also be used as a vise, plier or wrench or in any capacity where it is desired to grip a body.

In the drawings, Figure 1 is a plan view of the device. Fig. 2 is a sectional view showing the screw adjustment.

A and A' designate a pair of jaws disposed in parallel relation, one end of each jaw being provided with the usual gripping means. Each jaw is also provided with elongated slots 1 and 2. Toggle levers 3 and 4 are pivoted at 5 and 6 to each of the jaws and said members are pivotally connected at 7. The free ends of said toggle levers are provided with pins which extend within the elongated slots 1 and 2. It will be seen that as the jaws are moved to and fro the free ends of the levers will ride back and forth in the said elongated slots. The member 10 is a rod screw threaded for about two thirds of its length, the screw threaded portion engaging one of the jaw members which is provided with a screw threaded opening to receive the same. At the point where the screw thread terminates is an annular collar B, said collar resting in the countersunk portion of the inner face of the other jaw. The said other jaw is provided with an opening through which the portion 13 of the member 10 passes. The said member 10 terminates in an enlargement which bears against the second mentioned jaw. Said enlargement is cut away to receive the portion 14 of the member 11, and a pin 15 is adapted to secure said member 11 within the cut away portion. The member 11 is provided with V-shaped notches 16 and 17

which are adapted to engage with a spring pressed dog 9. This dog is normally held against the end portion of the member 11 by means of the coiled spring 17 which bears against the base of the cut away portion. It will be seen that as the member 11 is rotated in one direction, the jaw A will be drawn toward the other jaw A'. When the said jaws have been adjusted, the member 11 is swung down into the position shown in dotted lines and the instrument is ready for use.

When the member 11 is in the position shown in Fig. 1, the dog 9 will engage one of the V-shaped slots in the head of said member, and when said member is thrown down in the position shown in dotted lines, said dog will engage the other slot.

It will be seen that a device constructed as above stated, may be quickly adjusted to fit a piece of work by merely rotating the member 11, and to lock the device in its adjusted position merely requires the dropping or forcing down of said member 11. The entire manipulation of this device may be accomplished with one hand, thereby allowing the operator to have free use of his other hand to steady the work as it is being clamped. It will be seen that the jaws are released by moving the member 11 to its normal position and rotating said member 11. A structure of this sort may be manufactured at a small cost, and the peculiar arrangement of the parts will allow the same to be quickly taken apart and put together for the purpose of repairing, etc.

Having described my invention what I claim is:—

In a clamping device, a pair of parallel jaws having longitudinally disposed slotted portions open at one end, a pair of crossed toggle levers connecting said jaws, said levers being pivotally connected between their ends, and having pivotal connections at one end to the jaws and having pins on the other ends thereof adapted to move within said slotted portions; and adjusting means connecting said jaws comprising, a screw threaded bolt having threaded engagement with one of the jaws, an annular member on the bolt engaging with the inner face of the other jaw and a head on the outer end of the bolt lying against the outer face of said jaw, said head having a slot formed

therein and also provided with a recess; a lever pivotally mounted within said slot, and serving to effect the manipulation of the bolt; and a spiral spring and a dog seated
5 within the recess, said dog adapted to engage with and lock the lever through the medium of said spring.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

SAMUEL R. PARADISE.

Witnesses:

WM. DALY,
PEARL THATCHER.