

O. BERGSTROM.

CLAMP.

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994,630.

Patented June 6, 1911.

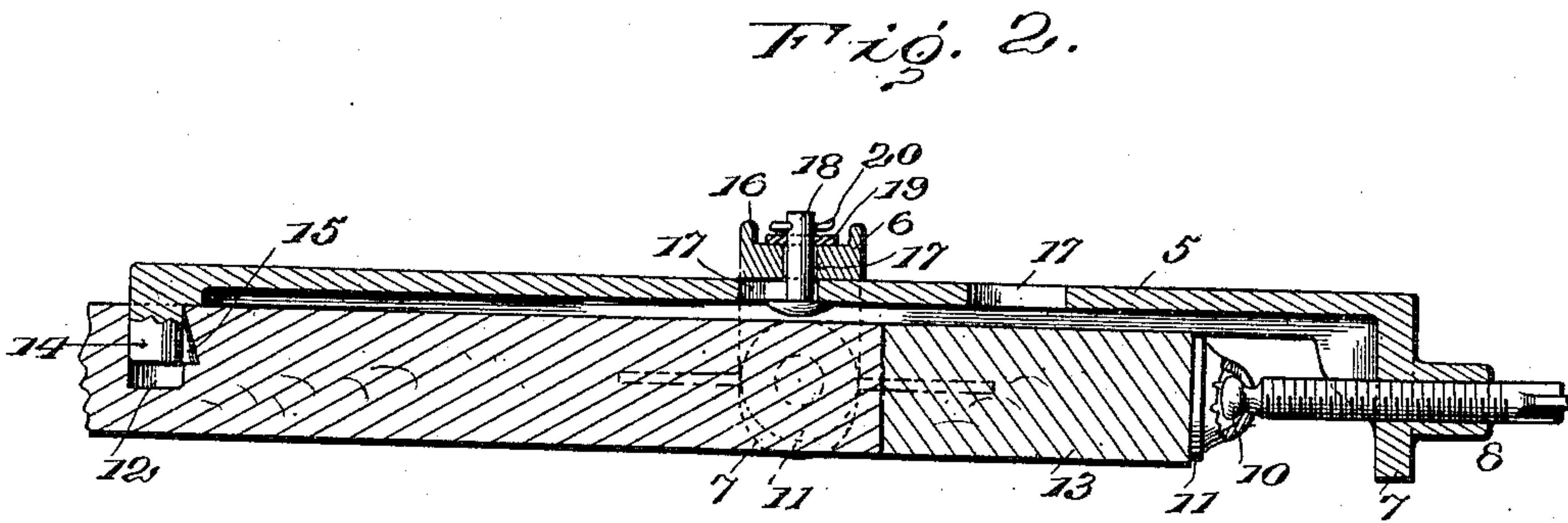
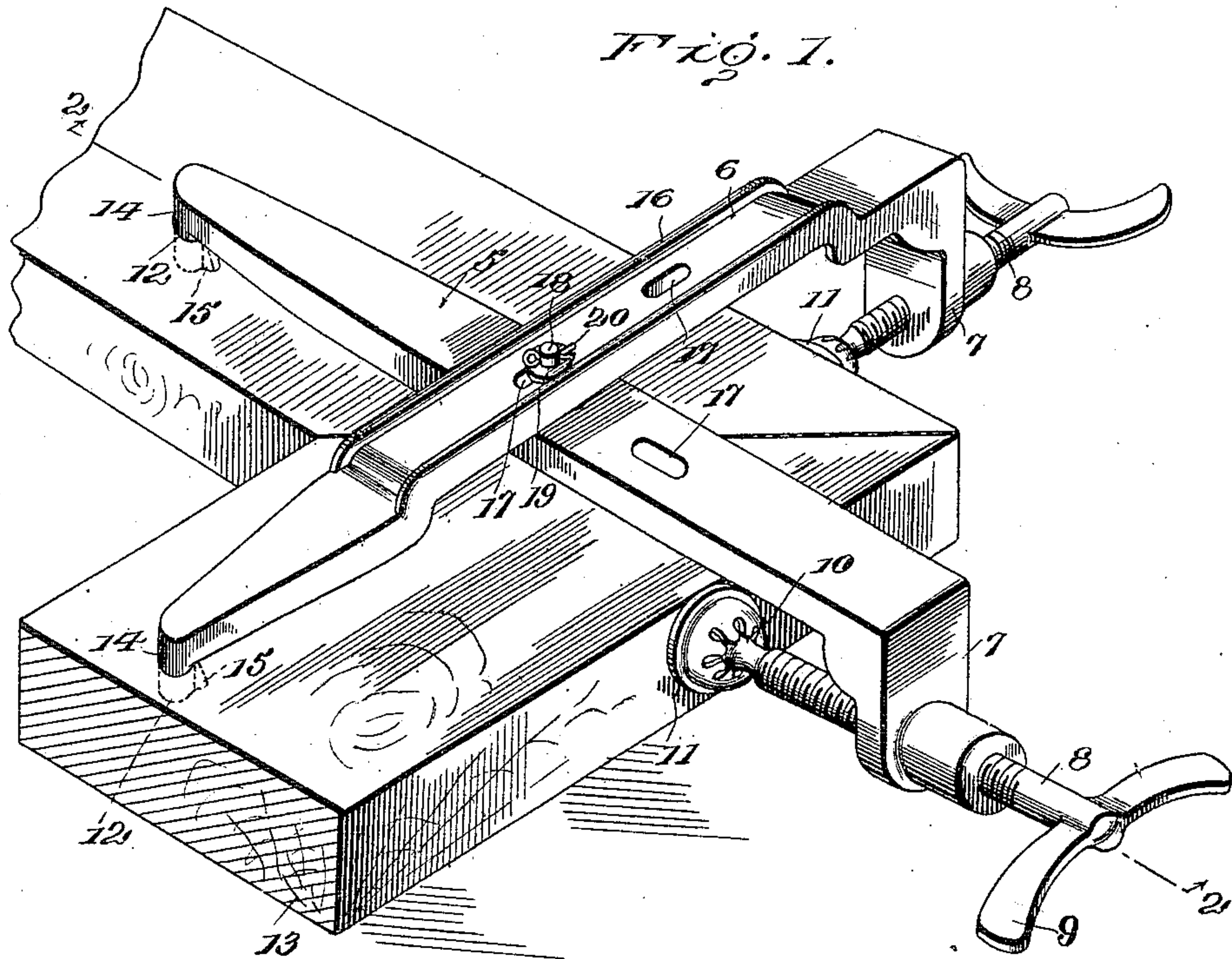
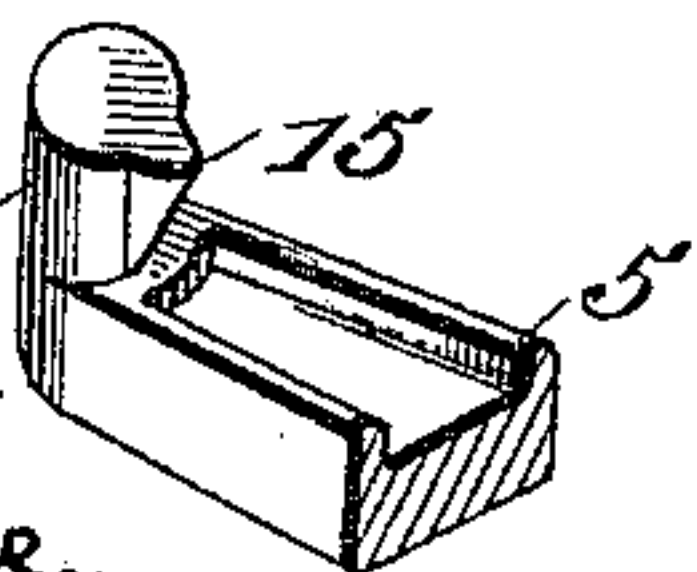


Fig. 3.

Witnesses
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UNITED STATES PATENT OFFICE.

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CLAMP.

994,630.

Specification of Letters Patent. Patented June 6, 1911.

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To all whom it may concern:

Be it known that I, OSCAR BERGSTROM, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Clamps, of which the following is a specification.

My invention relates to certain new and useful improvements in miter or beveled joint clamps and the object of my invention is to provide a clamp which is simple, cheap and durable in construction, which may be easily and quickly attached to and detached from the parts forming the miter, or beveled joint, and one in which the parts forming the joint may be accurately adjusted in position by the parts of the clamp after the clamp is in position.

With these and other objects in view my invention consists in certain constructions, combinations and arrangements of parts the preferred form of which will be first described in connection with the accompanying drawings and then the invention particularly pointed out in the appended claims.

Referring to the drawings wherein the same part is designated by the same reference numeral wherever it occurs, Figure 1 is a perspective view of the preferred form of my clamp showing the same in position on a miter joint; Fig. 2 is a section taken on line 2—2 of Fig. 1, and Fig. 3 is a detail perspective view of one end of one of the bars.

5 and 6 are a pair of bars each provided at one end with a downturned portion 7 in which is mounted a clamping device, which in the form shown comprises a screw 8 threaded in the portion 7. The screw preferably carries at its outer end a pair of wings 9 whereby it may readily be turned and at its inner end is preferably provided with a spherical head 10 on which is loosely mounted a work engaging block 11. It is to be understood that the particular form of the clamping device just described forms no part of my invention, and that the same may be modified or a different form substituted as may be found desirable.

The opposite ends of each of the bars 5 and 6 from that on which is mounted the clamping device is provided with a downwardly extending portion adapted to enter a hole 12 drilled or bored in each of the pieces 13 to be joined together. Preferably, and

as shown, these downwardly extending portions are formed as lugs 14, cast integral with the end of each bar and they are preferably provided with the inclined projecting pin 15 on their inner side whereby they will more firmly engage the side of the hole 12 and prevent the lug from slipping out of its hole when the clamping devices are tightened up.

In the form of my invention shown one of the bars as 6 is provided with a vertically offset portion 16, so that it will bridge over the bar 5 where they cross. I also preferably provide each of the bars with one or more elongated slots 17 through which may be loosely passed the headed pin 18 that is held in position by any suitable means, as a washer 19, and the cotter pin 20. This connection between the bars is for the purpose of facilitating the adjustment and handling of the clamp but may be dispensed with if desired.

In the operation of my device the two parts to be joined together are first bored near their beveled ends and then the beveled ends brought together. The clamp is now adjusted by placing the lugs 14 in the holes 12 with the clamping device of each bar engaging the side of the other part forming joint from that which its lug engages. The clamping devices are now tightened up and by loosening one clamping device and tightening the other the beveled ends may be adjusted along each other with great exactness and the joint accurately formed.

Attention is called to the fact that the positive engagement of a clamp bar with one part forming the joint, and a pressure of the clamping screw on the other part forming the joint results in a capacity of adjustment of the two parts without the necessity of any fixed support for either part.

I realize that considerable variation is possible in the details of construction and arrangement of parts without departing from the spirit of my invention, and I therefore do not intend to limit myself to the specific form shown and described.

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

1. A clamp for mitered or other beveled joints, comprising a pair of bars adapted to extend across each other, each bar being pro-

vided with an extension adapted to enter an opening formed in one of the parts to be joined, and a clamping means carried by the other end of each of said bars adapted to engage the side of the other part to be joined, for the purpose described.

2. A clamp for mitered or other beveled joints, comprising a pair of bars adapted to extend across each other, each bar being provided with a lug adapted to enter an opening formed in one of the parts to be joined, a clamping means carried by the other end of each of said bars adapted to engage the side of the other part to be joined, and a beveled pin carried by each lug, for the purpose described.

3. A clamp for mitered or other beveled joints, comprising a pair of bars extending across each other, a pin loosely connecting the bars together at their crossing, each bar being provided with an extension adapted to enter an opening formed in one of the parts to be joined, and a clamping means carried by the other end of each of said bars adapted to engage the side of the other part to be joined, for the purpose described.

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

OSCAR BERGSTROM.

Witnesses:

HERBERT ARNSTEIN,
BERNARD GUENSFELDER.

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