

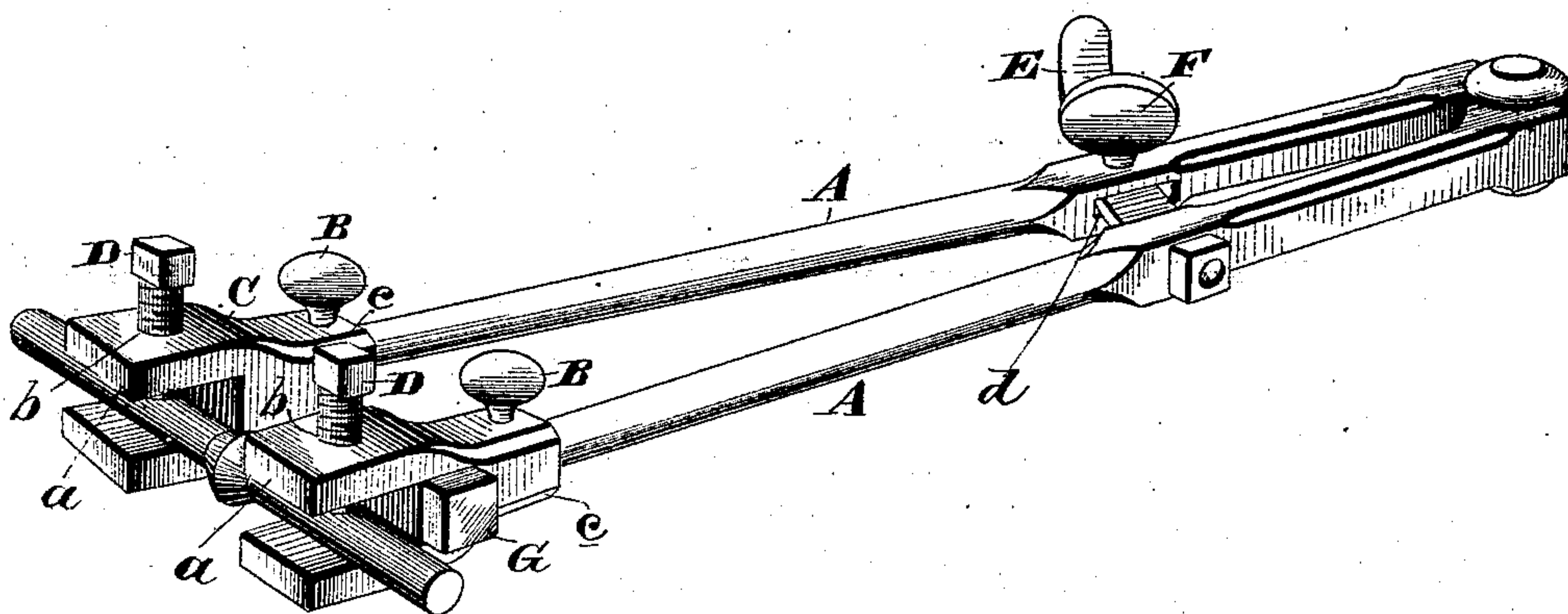
(No Model.)

W. W. WINEGAR.

METAL TONGS.

No. 307,248.

Patented Oct. 28, 1884.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

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## METAL TONGS.

SPECIFICATION forming part of Letters Patent No. 307,248, dated October 28, 1884.

Application filed May 21, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM W. WINEGAR, of Chambersburg, in the county of Pike and State of Illinois, have invented certain new and useful Improvements in Metal Tongs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

10 My invention relates to an improvement in metal tongs or clamps, the object being to provide a device of this character which shall be adapted to firmly hold two pieces of metal in position for welding, brazing, or soldering; and  
15 it consists in certain novel features of construction and combinations of parts, as will be hereinafter fully described, and pointed out in the claims.

The accompanying drawing represents a  
20 view in perspective of my improved device.

A A represent arms or reins made of any suitable length and size and pivoted together at one end.

To the forward end of each of the reins or  
25 arms A is secured, by means of a set-screw, B, a clamp, C, the upper jaw, *a*, of which is provided with a screw-threaded hole, *b*, for the reception of the screw or bolt D. These clamps are provided with extended or elongated necks  
30 *c*, into which fit the ends of the arms A, this construction allowing the clamps to be pushed up or down on the arms, thereby lengthening or shortening them, as required, and by securing them to the arms by screws, they may  
35 be rotated thereon and secured in any desired adjustment. To the sides of the clamps C are also secured, or formed integral therewith, the pieces G, for a purpose to be hereinafter described.

40 To one of the arms A is rigidly secured the curved metal bar E, adapted to pass through a hole or opening, *d*, in the opposite arm, the said latter arm being provided with a set-screw, F, adapted, when screwed down, to impinge on the bar E, and thus prevent the arms  
45 from moving.

When it is desired to use my improved device, the bars or pieces to be joined are placed in the clamps C, and secured therein by turning down the screws or bolts D thereon, said

clamps having been first adjusted on the arms to suit the shape or form of the pieces to be joined. After the said pieces have been properly set in the clamps, and the arms brought together, the screw F is turned down on the  
55 bar E, and the arms prevented from moving. The parts are then in position for soldering, welding, or brazing.

By the use of my improved tongs the operator has complete control over his work, and  
60 gains much time in bringing the two parts together. Again, in joining the pieces of metal, instead of striking the ends thereof, the clamps may be struck on the pieces G, and thereby prevent damaging the ends of the pieces of metal.  
65

My invention is exceedingly simple in construction, is durable and efficient in use, is of few parts, and can be manufactured at a small initial cost.

Having fully described my invention, what  
70 I claim as new, and desire to secure by Letters Patent, is—

1. In a device for holding two pieces of metal in position for welding, &c., the combination, with the two pivoted arms, of clamps  
75 secured to the free ends of both arms.

2. In a device for holding two pieces of metal in position for welding, &c., the combination, with the two pivoted arms, and devices for locking the arms in any desired adjustment, of clamps secured to the free ends of  
80 both arms.

3. In a device for holding two pieces of metal in position for welding, &c., the combination, with the pivoted arms, of clamps  
85 adjustably secured to the free ends of both arms.

4. In a device for holding two pieces of metal in position for welding, &c., the combination, with the pivoted arms and devices for locking the same in any desired adjustment, of  
90 the clamps adjustably secured to the free ends of both arms.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WILLIAM WALLACE WINEGAR.

Witnesses:

R. E. CONKLIN,  
JOHN MURPHY.