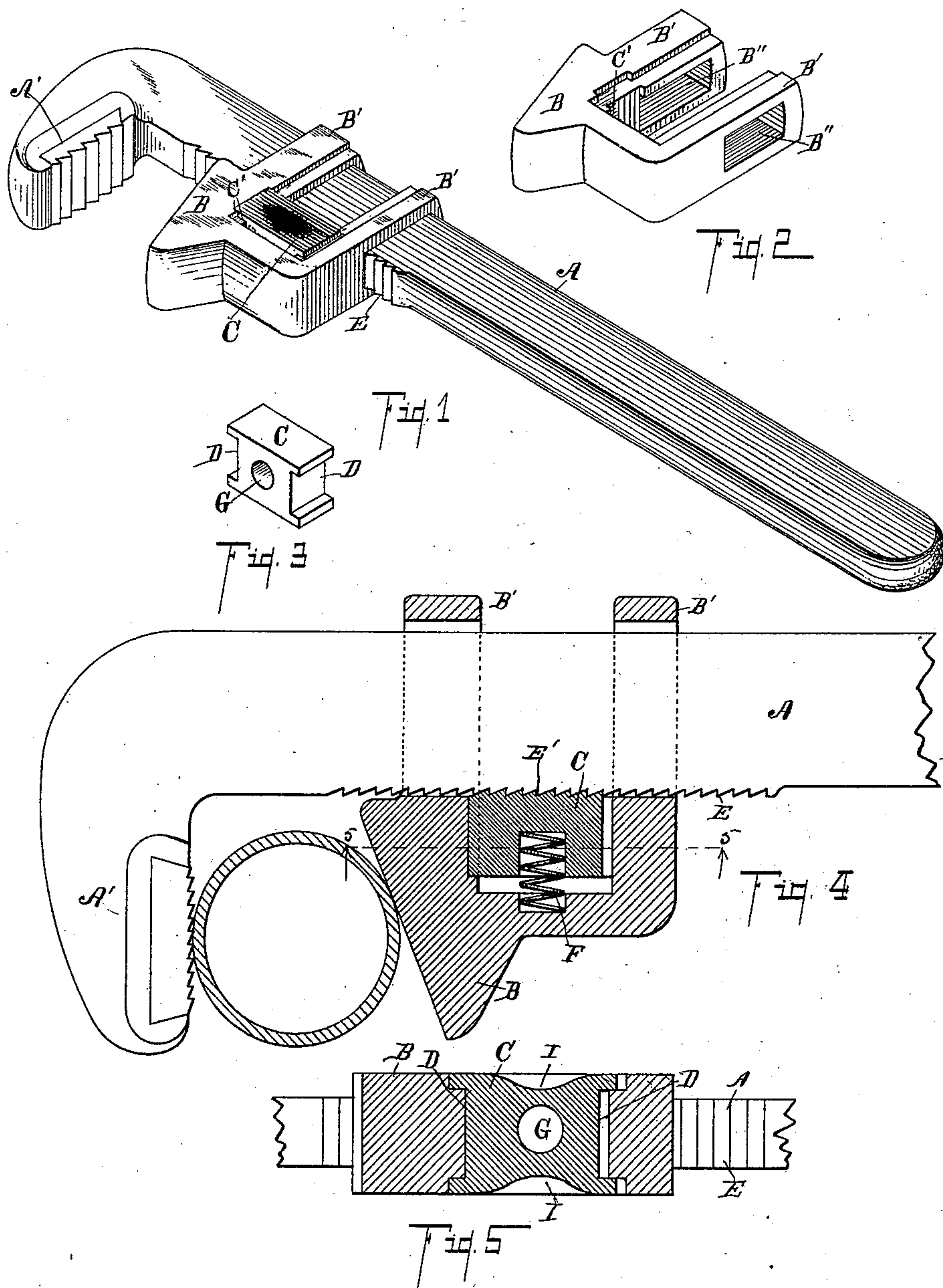


(No Model.)

M. W. ANSTERBURG.
WRENCH.

No. 562,112.

Patented June 16, 1896.



Witnesses:

Walter S. Wood
Marian J. Longyear.

Inventor,

Michael W. Ansterburg
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Att'y.

UNITED STATES PATENT OFFICE

MICHAEL W. ANSTERBURG, OF HOMER, MICHIGAN.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 562,112, dated June 16, 1896.

Application filed August 24, 1895. Serial No. 560,343. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL W. ANSTERBURG, a citizen of the United States, residing at the village of Homer, in the county of Calhoun and State of Michigan, have invented certain new and useful Improvements in Wrenches, of which the following is a specification.

My invention relates to improvements in wrenches, and is specially designed as an improvement in a wrench which is adapted for use as a pipe-wrench or as a nut-wrench, as the users may desire.

The objects of my invention are, first, to provide a wrench of the class described which is cheap of construction, it being possible to cast most of the parts so that they will slide together without any machine fitting; second, to provide a wrench in which the movable jaw is firmly adjustable upon the handle of the wrench; third, to provide improved means of quickly adjusting the movable jaw of the wrench. I accomplish these objects of my invention by the devices shown in the accompanying drawings, in which—

Figure 1 is a perspective view of a wrench embodying all features of my invention. Fig. 2 is a detail perspective view of the movable jaw removed from the wrench. Fig. 3 is a detail view of the locking-block of the wrench. Fig. 4 is an enlarged detailed side view of the wrench, the movable jaw and locking-block being shown in section; and Fig. 5 is a sectional view through the movable jaw and locking-block on line 5 5 of Fig. 4, looking up.

Similar letters of reference refer to similar parts throughout the several views.

In the drawings, A represents the handle of the wrench, which is turned off to one side and forms the toothed jaw A', which is rigid with the handle. A suitable removable toothed jaw-piece of steel is inserted in jaw A' and forms the teeth thereon. On the front of the handle A are suitable serrations or teeth E'. Adjustable upon the handle is the movable jaw B, which is secured thereto by suitable collars B' B'. Contained in a recess in the movable jaw B is the locking-block C, which has serrations or teeth E'

corresponding to the serrations E on the handle A. The ends of the locking-block C are recessed out and form projections to each side which embrace suitable rabbeted guides between the collars B' B' and is capable of insertion between said collars B' B'. When the locking-block C is placed in position, the handle A is inserted through the collars B' B'; that is, through the apertures B'' B'', and consequently retain the block C in position. A little hole or cavity G is formed on the inner side of the jaw B and a spring F is inserted which holds the locking-block C normally against the handle A, so that its teeth E' engage with the teeth E on the handle A. To hold the locking-block securely in position, when force is applied to the wrench, little recesses C' are formed in the rear portion of the front collar B' of a size sufficient to be engaged by the locking-block C, the said recesses being at such a distance that when the block engages them it will be retained so that its teeth will be in mesh with the teeth of the handle without the assistance of the spring F to retain them there.

When using the wrench, the operative takes hold of the locking-block C, draws it outwardly away from the handle A, which compresses the spring F, disengages the serrations on the block, and permits the jaw to be moved along by passing the collars along over the handle A. For shutting the wrench upon the pipe or nut all that is necessary to do is to open the jaw wider than the nut or pipe, then push it toward it, the spring allowing the serrated block C to be depressed, and the teeth on the handle pointing toward the jaw allow it to pass over them freely but retain it from returning.

When the wrench is applied to a pipe or bolt, the end of the block C will crowd into the recesses C' and lock it over in that position so that it will be held stationary while in use. After the wrench has been used, it is quickly and easily detached by taking hold of the locking-block C, (suitable depressions I I being formed therein to make this convenient,) withdrawing the block, and taking up the movable jaw to any point desired.

I desire to say that my improved wrench

can be somewhat varied in its details without departing from my invention. The wrench will be quite effective without the recess C' in the forward collar, but is much more effective with said recesses, and the locking-block might be retained by other guiding means than those here shown in position in the jaw.

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

1. In a wrench the combination of the handle A with forwardly-pointing teeth E on its front side; a suitable stationary jaw A'; the movable jaw B with collars B' B' embracing the handle A and the recess C' on the rear side of the front collar; the locking-block C, adapted to enter the recess C' in the movable jaw B, with teeth E', adapted to engage the teeth E on the handle A, and a spring F inserted in suitable cavities G between the locking-block C and the movable jaw B, all

coacting together substantially as described for the purpose specified.

2. In a wrench the combination of the handle A with teeth E on its front side and a stationary jaw at its outer end; the movable jaw B with collars B' B' to embrace the handle A, the rear of the front collar B' containing a recess C'; the locking-block C placed between the main part of the movable jaw B and the handle A with teeth thereon to engage the teeth on the said handle, the said block being also adapted to engage in the recesses C' to lock the jaw adjustably in place as specified.

In witness whereof I have hereunto set my hand and seal in the presence of two witnesses.

MICHAEL W. ANSTERBURG. [L. S.]

Witnesses:

CHARLES D. BURT,
W. A. LANE.