

No. 849,891.

PATENTED APR. 9, 1907.

E. ELLINGSON.  
COMBINATION WRENCH.  
APPLICATION FILED FEB. 12, 1907.

Fig. 1.

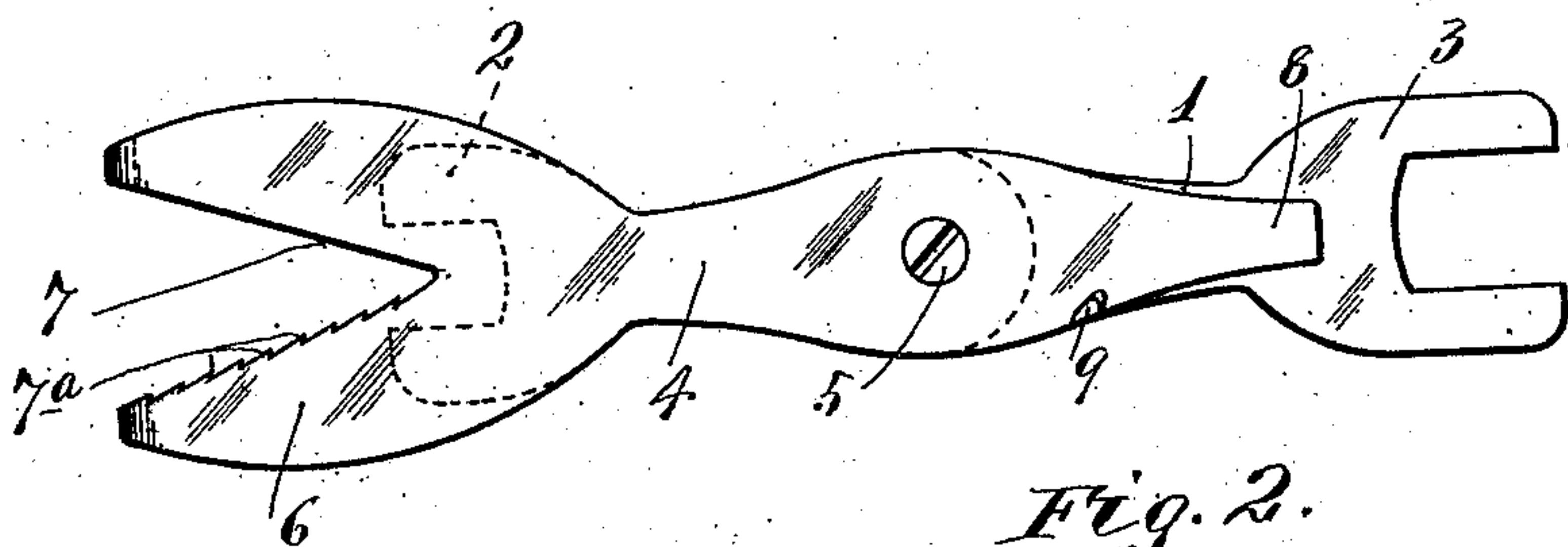


Fig. 2.

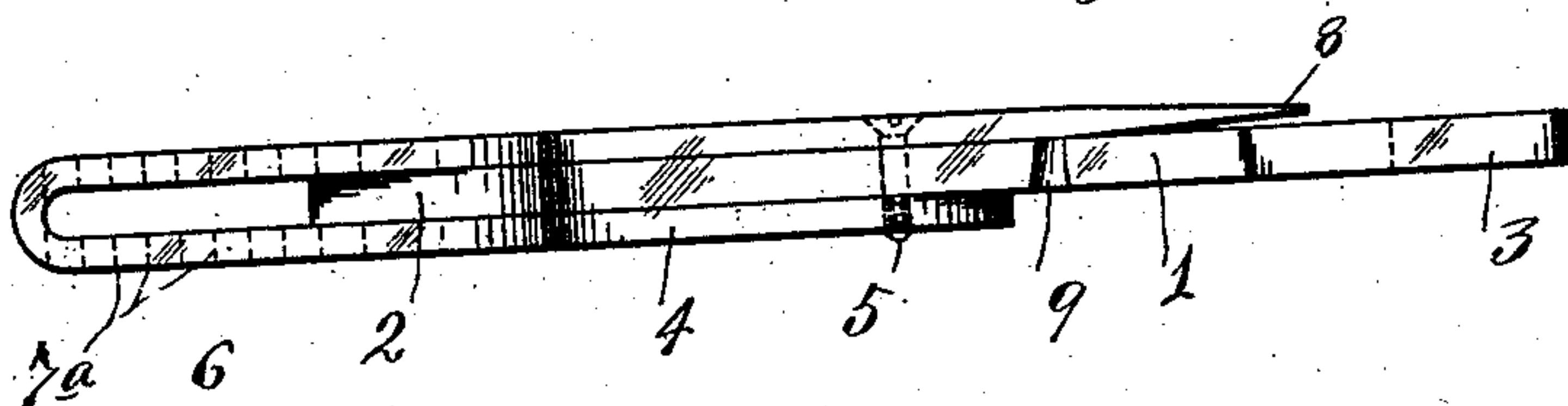
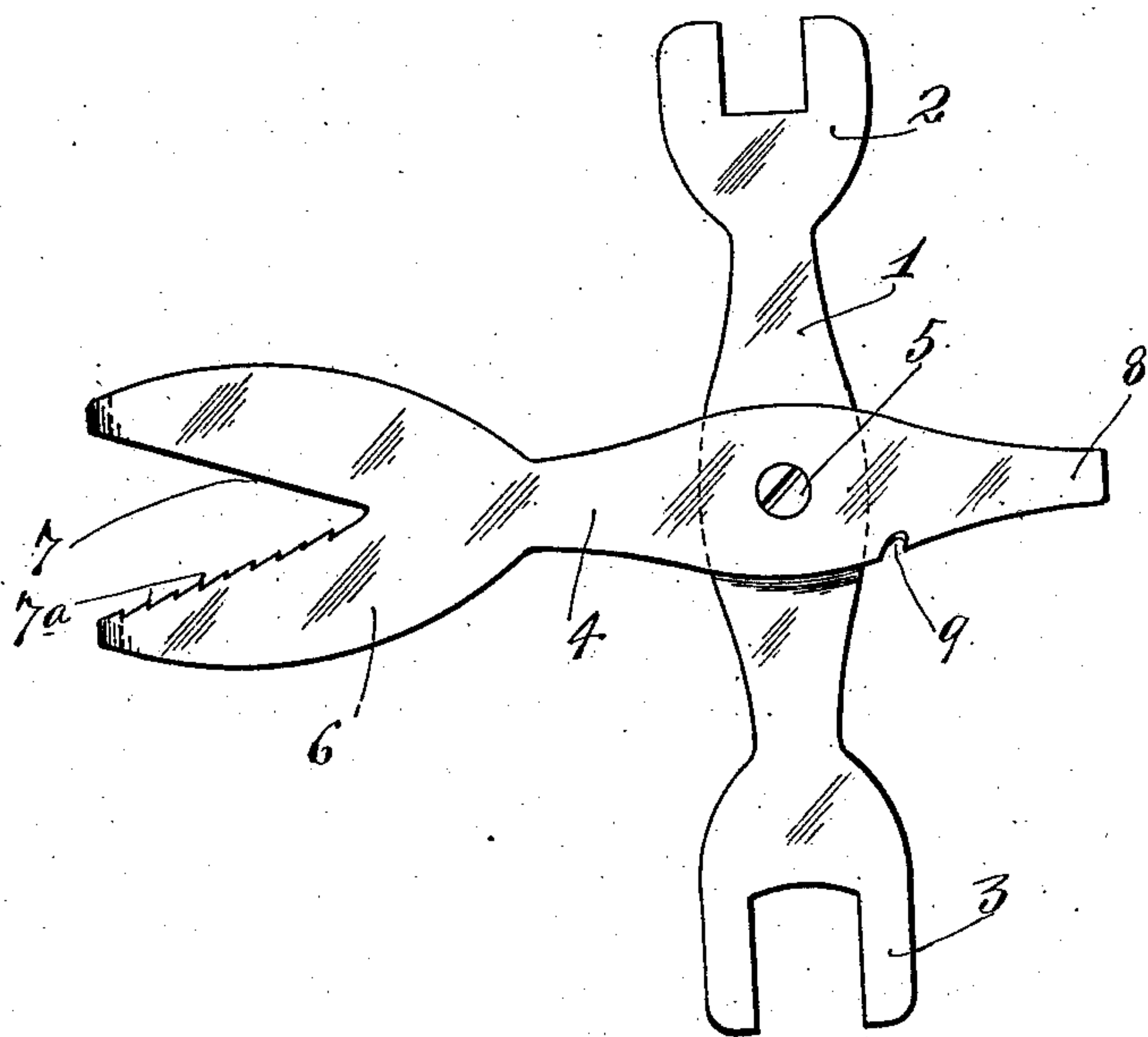


Fig. 3.



Witnesses:

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# UNITED STATES PATENT OFFICE.

EDWARD ELLINGSON, OF HAVANA, NORTH DAKOTA.

## COMBINATION-WRENCH.

No. 849,891.

Specification of Letters Patent.

Patented April 9, 1907.

Application filed February 12, 1907. Serial No. 356,959.

*To all whom it may concern:*

Be it known that I, EDWARD ELLINGSON, a citizen of the United States, residing at Havana, in the county of Sargent and State of North Dakota, have invented certain new and useful Improvements in Combination-Wrenches; 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.

My invention has for its object to provide an improved combination-tool in the nature of a folded wrench with certain attachments thereto; and to this end it consists of the novel devices and combinations of devices hereinafter described, and defined in the claims.

The invention is illustrated in the accompanying drawings, wherein like characters indicate like parts throughout the several views.

Referring to the drawings, Figure 1 is a plan view of the improved tool, of the parts thereof folded or turned in a straight line. Fig. 2 is an elevation of the said tool; and Fig. 3 is a plan view of the tool, showing the two members of the tool turned at an angle to each other.

The numeral 1 indicates a lever which is provided at one end with a wrench-head 2 and at its other end with a wrench-head 3. The numeral 4 indicates another lever or handpiece, which is formed from flat sheet metal bent upon itself to form parallel side portions between which the wrench 1 2 3 is adapted to fit and to which the lever 1 is pivotally connected by a screw 5. The screw 5 is passed loosely through one side of the lever 4 and through the lever 1 and has threaded engagement with the other side of said lever 4. The lever 4 at its folded end portion is expanded to form a bifurcated head 6, and this head is formed with a diverging notch 7, which at one side is provided with ratchet-like teeth 7<sup>a</sup>, which adapt the head 6 to operate as an alligator or pipe wrench. One prong of the lever 4 is extended to form a screw-driver 8. In one edge the screw-driver-forming portion 8 of the lever 4 is preferably formed with a

sharp-edged notch 9, that adapts the said part to cooperate with the wrench-lever 1 to afford a wire-cutter. As is evident, by tightening or loosening the pivot-screw 5 the wrench-lever 1 may be pressed between the prongs of the wrench-lever 4 under any desired friction.

When the wrench is folded, as shown in Figs. 1 and 2, it may be very conveniently carried in the pocket, and, furthermore, in such position of the parts the alligator or pipe wrench or the exposed wrench made of the lever 1 are ready for use. When the screw-driver 8 is to be used, the lever 1 should be turned, as shown in Fig. 3. When the parts are thus positioned, the screw-driver may be operated by taking hold of the head 6, or if greater power is required by taking hold of the ends of the lever 1 with both hands.

The tool described will be found a very useful article by a great many different persons, and especially by persons who do not keep on hand a complete set of wrenches and similar tools.

What I claim is—

1. In a tool of the kind described, the combination with a lever bent upon itself to form laterally-spaced side portions and provided at its folded end with a diverging notch having teeth at one side, and a wrench-equipped lever pivotally connected to and working between the prongs or sides of said folded lever, substantially as described.

2. The combination with a lever 4 bent upon itself to form laterally-spaced sides and provided with a head portion 6 formed with a diverging notch 7 having teeth 7<sup>a</sup>, of a wrench-lever 1 having the wrench-heads 2 and 3, which lever works frictionally between the laterally-spaced sides of said lever 4, and a screw pivotally connecting said levers 1 and 4 and adjustably to vary the frictional engagement between the two, substantially as described.

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

EDWARD ELLINGSON.

Witnesses:

D. E. LUHRS,  
W. C. MURPHY.