

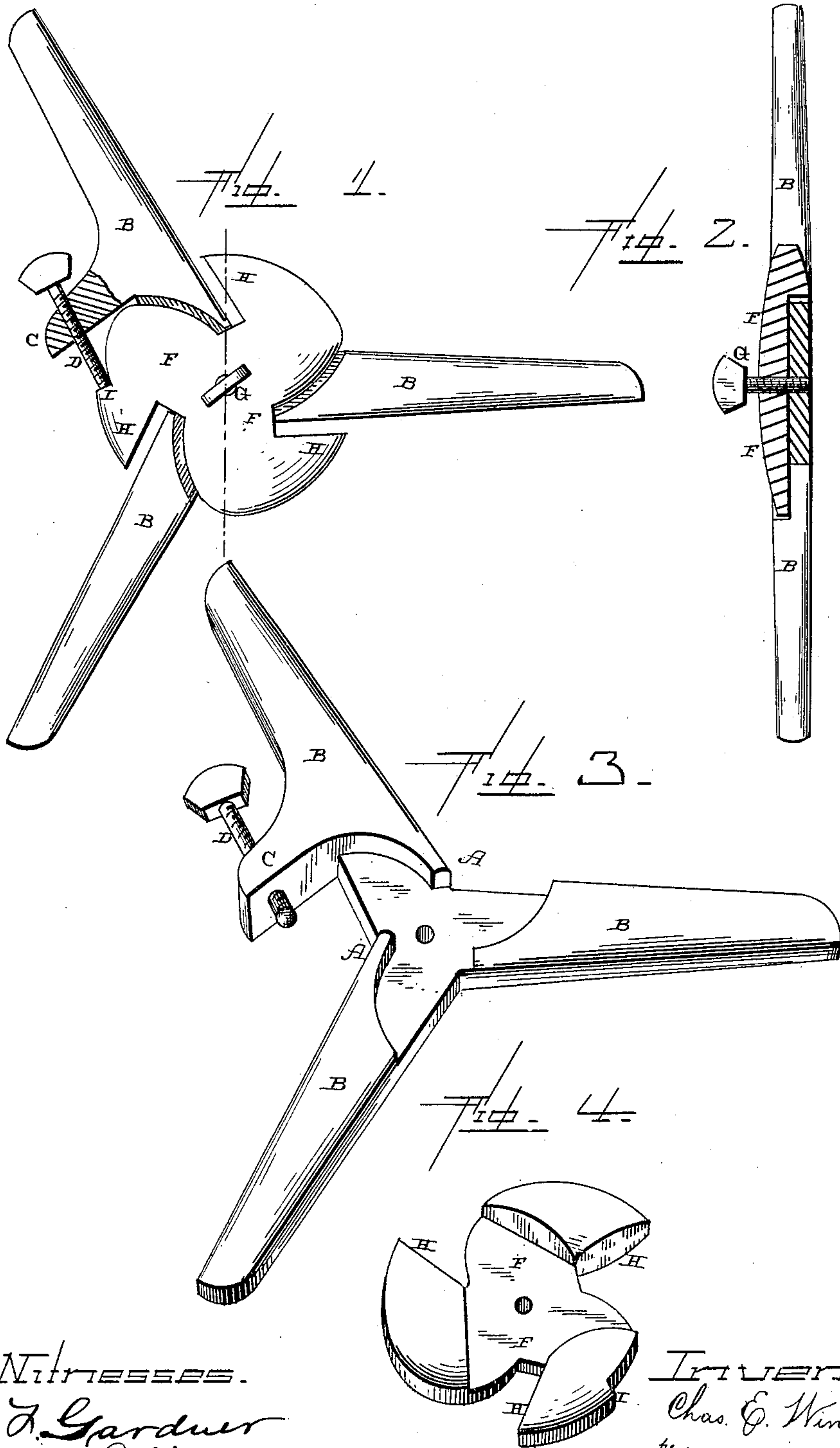
(No Model.)

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ADJUSTABLE WIRE TWISTING WRENCH.

No. 368,438.

Patented Aug. 16, 1887.



Witnesses.  
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# UNITED STATES PATENT OFFICE.

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## ADJUSTABLE WIRE-TWISTING WRENCH.

SPECIFICATION forming part of Letters Patent No. 368,438, dated August 16, 1887.

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*To all whom it may concern:*

Be it known that I, CHARLES E. WINTRODE, of Huntington, in the county of Huntington and State of Indiana, have invented certain  
5 new and useful Improvements in Adjustable Wire-Twisting Wrenches; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as  
10 it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in adjustable wire-twisting wrenches; and it consists in the combination of the casting of which  
15 the arms form a part, the pivoted adjustable part which is placed upon this casting and which has a jaw to correspond to each one of the arms of the casting, and an adjusting device for turning this adjustable part upon the  
20 casting, as will be more fully described hereinafter.

The object of my invention is to provide an adjustable wrench for twisting the wires for  
25 picket-fences, in which the parts are made adjustable in relation to each other, so that wires of different thicknesses can be twisted with the same facility.

Figure 1 is a plan view of a wrench embodying my invention. Fig. 2 is a vertical cross-section of the same. Fig. 3 is a perspective of the casting with the adjustable  
30 part removed. Fig. 4 is a perspective of the adjustable part by itself.

A represents the casting, which has the arms B made as a part thereof. The central portion of the casting is recessed, as shown, so as to form both a socket and a flat surface to receive the adjustable jaws or part which is to  
40 be placed thereon. Only three arms are here shown, but there may be a greater number if so preferred. These arms radiate in such a manner that two of them are always upon the side of the fence upon which the person is operating, thus enabling him to keep up a constant  
45 twisting motion. Formed upon one edge of one of the arms is a projection, C, through which the adjusting set-screw D is passed for the purpose of adjusting the rotating casting  
50 F, which is pivoted upon the casting A, as

shown. This casting F is recessed upon its inner side, as shown in Fig. 4, so as to fit down into and over the recess, which is formed in one of the faces of the casting A, and turns upon the pivot G. This casting F has three  
55 arms or projections, H, which extend outward parallel or nearly parallel with the edges of the arms B, and which form one half of the jaws, between which the wires are caught to be twisted. The arm B forms one half of each  
60 jaw, and the projection H of the casting F forms the other. By the set-screw D, which bears against a shoulder, I, formed upon the casting F, the casting can be made to partially  
65 turn upon its pivot so as to either increase or decrease the size of all of the jaws at once. The farther the edges of the casting F are moved forward toward the edges of the arm  
70 the less the space is in which the wires are to be caught, and the wrench is adapted to be used upon wires of the smallest size. In proportion as the set-screw D is moved backward and the space is increased between the  
75 arms and the projections upon the castings F so larger wires can be introduced.

Heretofore the wrenches made for twisting wires have been made without any adjustable parts, and hence whenever the wrench became worn at any point the wrench became practically useless, and nothing further could be  
80 done with it until it had been dressed or repaired. By having one of the parts made adjustable, as here shown, the wires of the jaws can be increased and decreased at will, and thus adapted for wires of any size.  
85

The pivot G, upon which the casting F turns, will preferably consist of a set-screw, which, after the set-screw D has been tightened in position, will also be tightened up, so as to assist in holding the adjustable casting F in position.  
90

Having thus described my invention, I claim—

1. The combination of a main casting provided with arms forming one half of the jaws, and an adjustable casting having projections  
95 corresponding with the arms and forming the other half of the jaws, placed on the main casting, and means for holding the adjustable casting in any desired position, whereby the  
100



jaws are adapted for twisting wires of different thicknesses, substantially as set forth.

2. The combination of the casting A, provided with the arms B, forming one half of  
5 the jaws, the adjustable casting F, which is pivoted upon the casting A, and which is provided with projections which form the other half of the jaws, and a means for holding the

casting F in any desired position, substantially as described. 10

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

CHARLES E. WINTRODE.

Witnesses:

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