

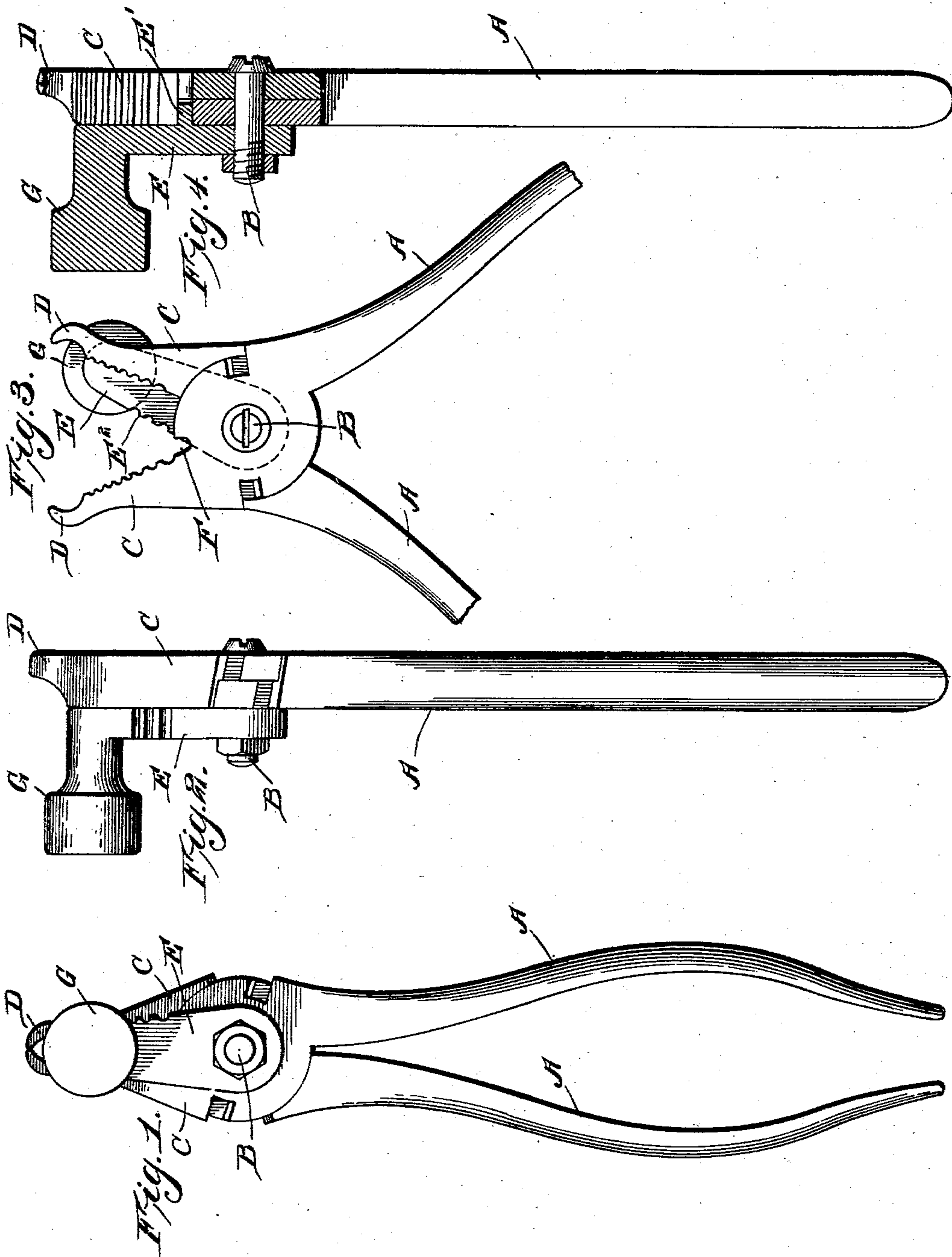
No. 740,739.

PATENTED OCT. 6, 1903.

P. BROADBOOKS.  
WIRE WORKING TOOL.  
APPLICATION FILED OCT. 9, 1902.

NO MODEL.

2 SHEETS—SHEET 1.



Witnesses  
*Louis D. Heinrichs*  
*L. H. Morrison*

Inventor  
*Peter Broadbooks*  
By his Attorney  
*W. P. Williams*

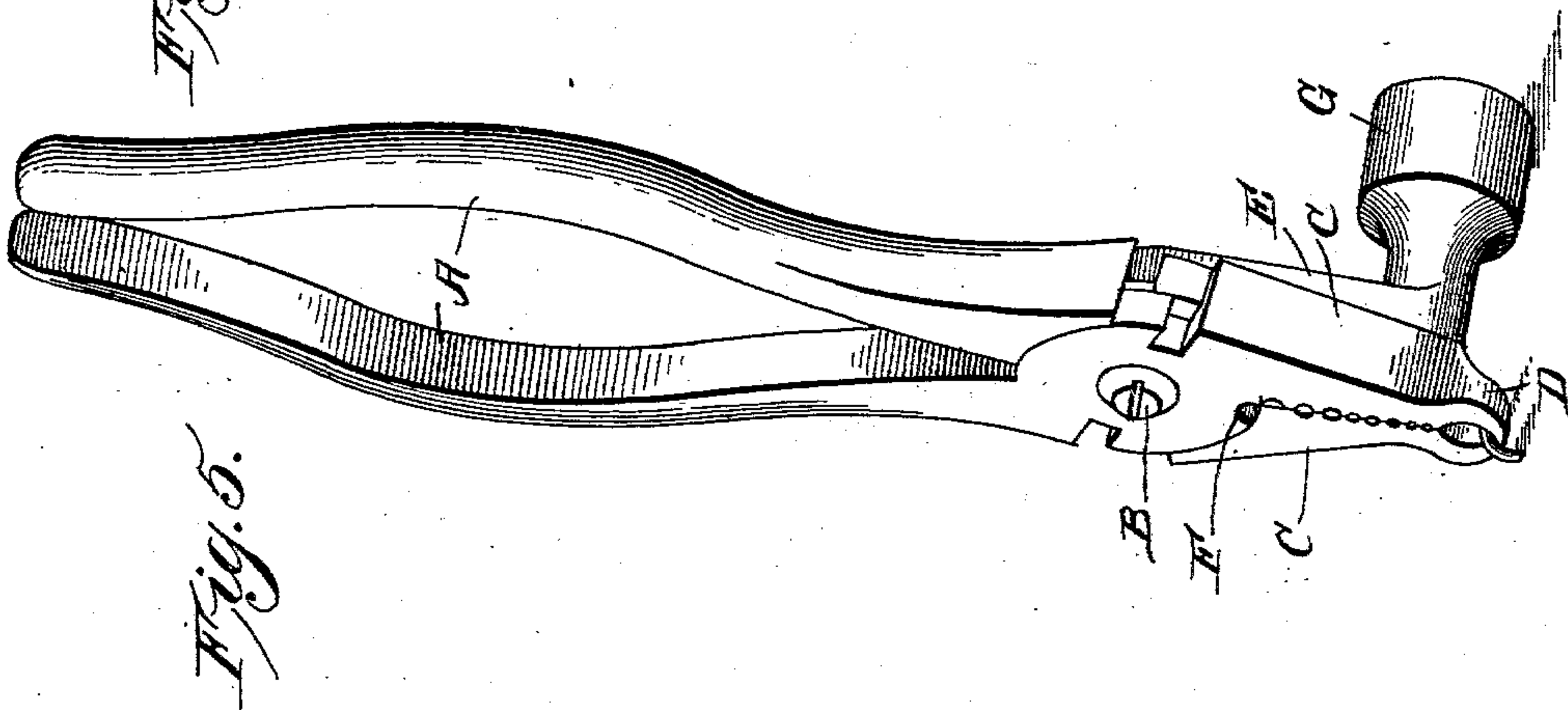
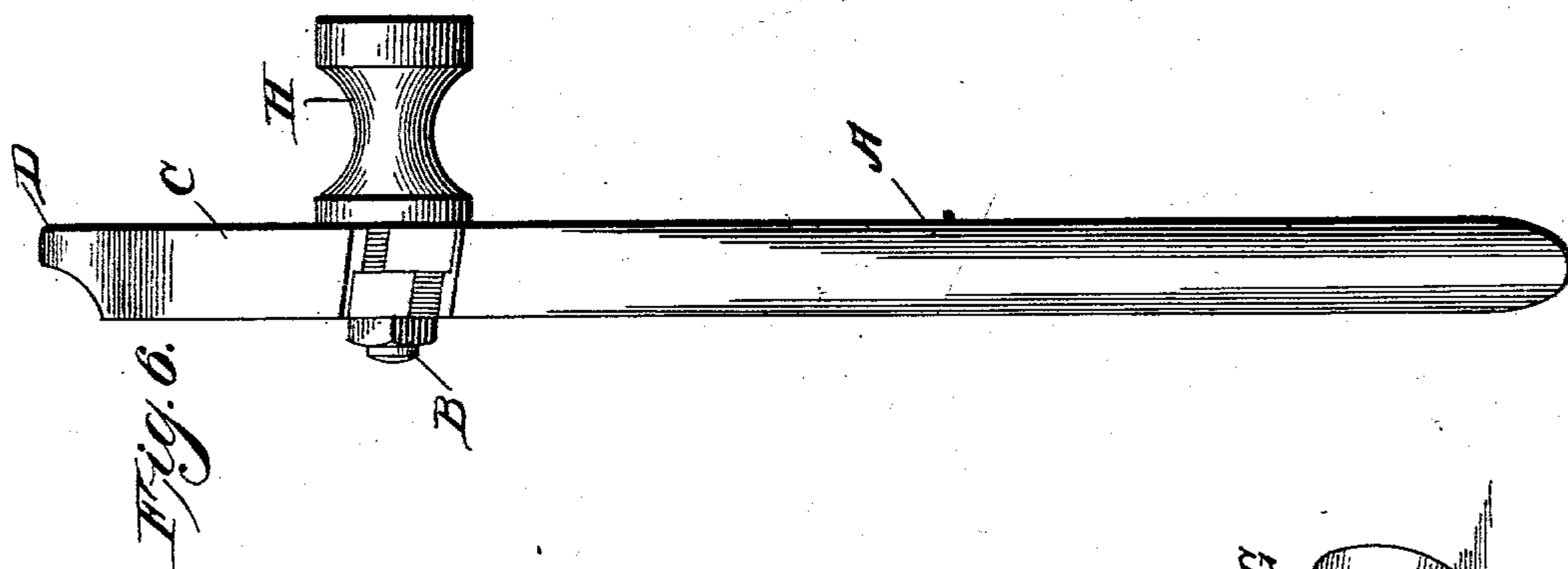
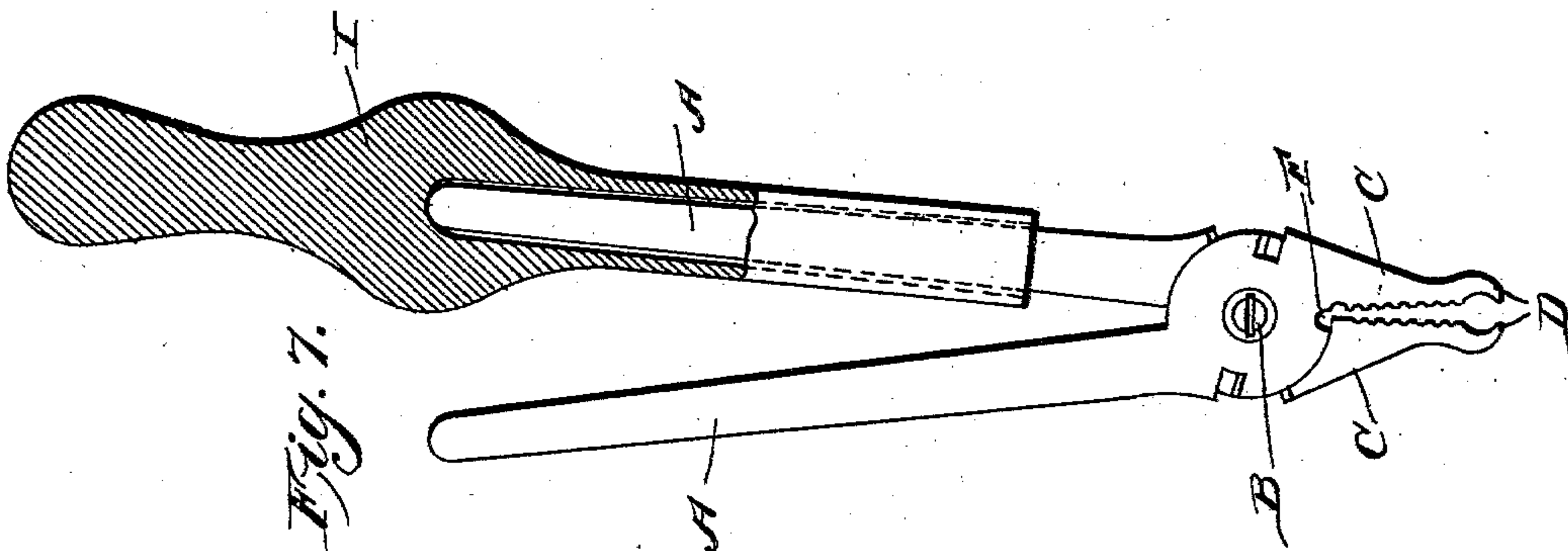
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## UNITED STATES PATENT OFFICE.

PETER BROADBOOKS, OF BATAVIA, NEW YORK.

## WIRE-WORKING TOOL.

SPECIFICATION forming part of Letters Patent No. 740,739, dated October 6, 1903.

Application filed October 9, 1902. Serial No. 126,557. (No model.)

*To all whom it may concern:*

Be it known that I, PETER BROADBOOKS, a citizen of the United States, residing at Batavia, county of Genesee, and State of New York, have invented a certain new and useful Improvement in Wire-Working Tools, of which the following is a specification.

My invention relates to a new and useful improvement in combined shears, pliers, and staple-pullers, and has for its object to so construct a device of this character that will be applicable to a greater range of use; and with this object in view I provide the jaws of the pliers at their outer ends with hooked points.

A further object of my invention is to provide a side plate which shall be used as a shear, and this side plate carries a hammer, and this hammer can also be used as a fulcrum in pulling staples, nails, or tacks, and the device will be exceedingly simple in construction and very cheap to manufacture.

With these ends in view this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claim.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, the construction and operation will now be described in detail, referring to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is an elevation of one side of the pliers with a side plate attached; Fig. 2, an edge view of Fig. 1; Fig. 3, an elevation of the opposite side of the pliers, showing the jaws open; Fig. 4, a longitudinal section through the same; Fig. 5, a perspective view of the pliers, showing them in the act of pulling a staple; Fig. 6, an edge view of the pliers, showing a modification wherein the shearing-plate is dispensed with and the hammer is connected directly to the pivotal point of the two members of the pliers; Fig. 7, an elevation of the pliers, showing the same made with straight handles and showing a weighted socket-handle applied to one of the handles of the pliers for driving the points of the jaws into wood, so as to engage staples or nails.

In carrying out my invention, as embodied in Figs. 1 to 5, inclusive, A A represent the handles of a pair of pliers, which are pivoted together at the point B.

C C are the jaws which are formed with the handles A, and these jaws C are curved or serrated upon their inner face to better engage articles to be grasped. The outer ends of each of the jaws are formed hook-shaped, as indicated at D, for the purpose of grasping staples, &c.

E is a side plate which is secured upon one side of the pliers, the pivotal point B passing through the side plate and helping to secure it in place, and the side plate E also carries a lug E', which projects into a notch F, formed in the periphery of the circular portion surrounding the pivotal point of one member of the pliers. Thus the side plate is held against turning upon the pivot B relative to the member to which it is secured. Thus the side plate E will swing with the jaw to which it is secured, and the edge E<sup>2</sup> will act as a cutting edge and coact with the opposite jaw, so as to form a shear, as is well shown in Fig. 3.

Formed with the side plate E is a hammer-head G, which may be used as a fulcrum for pulling staples, as shown in Fig. 5.

If desired, the hammer-head G may be dispensed with and only the side plate E utilized for shearing, or the side plate may be dispensed with and a hammer-head H secured directly on the pivotal point of the pliers, as shown in Fig. 6.

In Fig. 7 I have shown a modification wherein the handles A of the pliers are made straight, so that a weighted socket-handle I may be passed through either of the handles and utilized to drive the points of the pliers into wood for grasping staples, nails, &c., the heads of which are below the surface.

The advantage of my invention is as follows: By extending the ends of the plier so as to form the two hook points for grasping staples, nails, &c., great usefulness is added to the pliers without increasing the expense in their manufacture, and by adding the side plate and hammer a great advantage is gained; but only one member is added to what is commonly called a "button-plier," making this form of plier therefore applicable to a greater range of usefulness, and by taking off the shearing-plate and hammer the tool may be used as an ordinary common plier.

Having thus fully described my invention, what I claim as new and useful is—



In a device of the character described, a pair of handle-levers pivoted to each other and having jaws formed integral therewith, one of said levers having a notch formed in the periphery of the circular portion surrounding the pivotal point, a side plate having a lug formed integral with the body of the plate, said lug adapted to seat in the notch in the periphery of the circular portion of one member of the pliers, whereby movement of the plate toward either side is prevented,

means for pivoting the member and the side plate together and allowing pivotal motion of the members as and for the purpose specified.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses. 15

PETER BROADBOOKS.

Witnesses:

F. L. HAURS,  
CARLOS A. HULL.