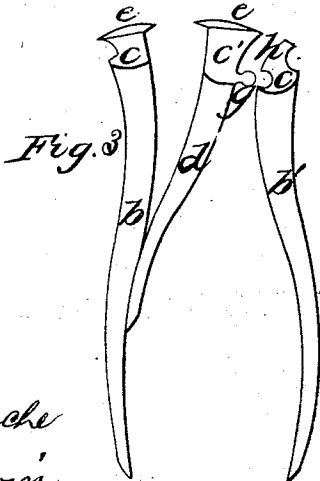
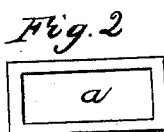
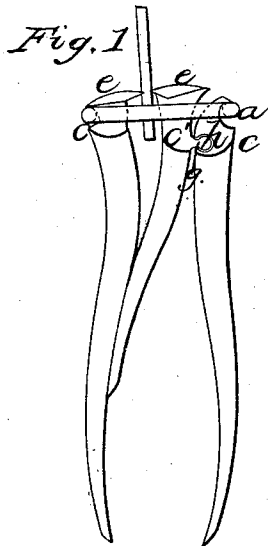


P. Broadbooks,

Wire Cutter.

N^o 65,638.

Patented June 11, 1867.



*The Invention
Wm. T. Truitt*

*P. Broadbooks
Per Mm. C.
Attorney*

United States Patent Office.

PETER BROADBOOKS, OF BATAVIA, NEW YORK.

Letters Patent No. 65,638, dated June 11, 1867.

IMPROVEMENT IN WIRE-CUTTING PINCERS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, PETER BROADBOOKS, of Batavia, in the county of Genesee, and State of New York, have invented a new and useful Improvement in Nippers or Wire-Cutting Pincers; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of my improved nippers.

Figure 2 is a detached view of the collar to fasten the nippers together.

Figure 3 is a detached view of the parts composing the nippers.

Similar letters of reference indicate like parts.

This invention consists in an improved construction of cutting pincers, pliers, or nippers, especially adapted to cutting wire, but equally applicable to all similar uses wherein metal or hard and tough substances require great power to sever them easily. This improvement consists in an entirely new construction and arrangement of the parts which form a pair of pincers, three pieces being employed instead of two, as usual, and are secured and jointed together by means of a collar around the head or jaws of the pincers, instead of being riveted in the ordinary manner.

The object of this device is to obtain great leverage power in the cutting jaws, and the reacting movement of a spring to open the jaws.

A rectangular metal collar, *a*, is fitted around the heads *c c* of the two outside metal handles or legs *b b'*, and between the legs *b b'* is placed a steel spring, *d*, the head *c'* of which is also enclosed in the collar *a*. Upon the heads of the leg *b* and the spring *d* are welded, or fastened with rivets or screws, steel jaws or cutting plates *e e*. The head of the spring *d* is fitted to work in the head of the leg *b'* by a knuckle-joint, of which *g* is the knuckle on the spring, and *h* the socket in which it fits on the leg *b'*. The other end of the spring *d* bears against the inside of the leg *b*, and tends to open the jaws *e e*. A cam may be employed in place of the knuckle. It will be seen that by this connection of the legs and spring with each other by means of the collar *a*, the leg *b'* acts as a powerful lever upon the spring *c*, which, with its short arm or head, draws the cutting jaws *e e* together upon wire or other substance to be cut between them, while the spring *c* will throw the jaws open the instant the pressure of the hand on the legs is removed.

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

The legs *b b'* and spring *d*, secured together by means of the rectangular collar *a*, fitting over and working upon the heads *c c* of the legs *b b'* and spring *d*, the latter connected to the leg *b'* by means of the knuckle-joint, composed of the knuckle *g* and socket *h*, all constructed and arranged substantially as described, for the purpose specified.

PETER BROADBOOKS.

Witnesses:

H. M. WARREN,

W. L. ONDERDONK.