

V. D. P. KENERSON.
Wire-Drawing Pinchers.

No. 205,488.

Patented July 2, 1878.

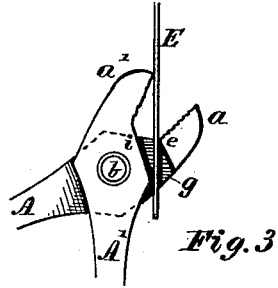


Fig. 3

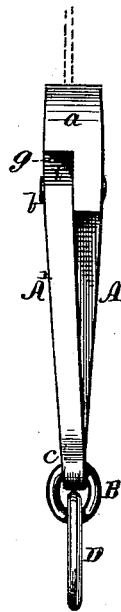


Fig. 1

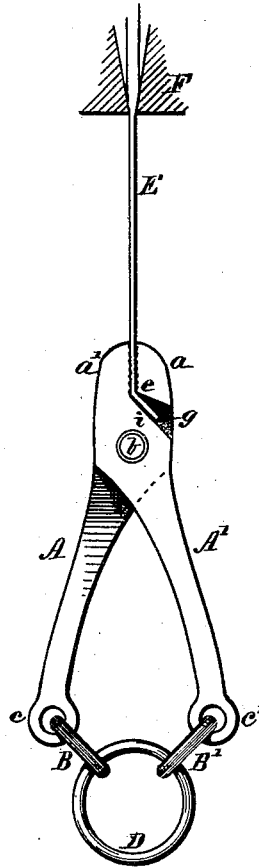


Fig. 2

Witnesses,
P. E. Barton
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UNITED STATES PATENT OFFICE.

VIRGIL D. P. KENERSON, OF WORCESTER, MASSACHUSETTS.

IMPROVEMENT IN WIRE-DRAWING PINCHERS.

Specification forming part of Letters Patent No. 205,488, dated July 2, 1878; application filed March 28, 1878.

To all whom it may concern:

Be it known that I, VIRGIL D. P. KENERSON, of Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Wire-Drawing Pinchers; and I declare the following to be a description of my said invention, sufficiently full, clear, and exact to enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 represents a side view of my improved wire-drawing pinchers. Fig. 2 represents a front view of the same, showing the manner of their use, and Fig. 3 shows the jaws opened.

Wire-drawing pinchers, as ordinarily constructed, are so made that their jaws simply grasp the straight end of the wire which has been previously pointed or swaged down to permit of its passage for a short distance through the die. Said jaws, especially if somewhat worn, are liable to draw off or slip from the wire, the strain of the die being greater than the retentive force of the pinchers, thereby causing considerable annoyance and delay. More frequently is this the case if the size of the wire is such that the faces of the jaws do not stand exactly parallel with each other; consequently, the pinchers require to be adapted to the particular size of wire, as well as to be frequently reserrated or roughened on the jaw-faces.

To obviate the above-named objections, and to provide pinchers capable of taking a firm and secure hold on wires of different sizes, is the object of my present invention, which consists in the improved wire-drawing pinchers hereinafter described, wherein the jaws are made in such manner and form as to offset or bend over the end of the wire when the pinchers are closed thereon, substantially as set forth.

In the drawings, A A' indicate the two parts of the pinchers, pivoted to each other in the ordinary manner at *b*, and having gripping-jaws *a a'*, and rear-end eyes *c c'*, from which links B B' extend to the connecting-ring D, forming a toggle attachment, by which the pinchers are connected to the drawing block

or bar, in such manner that the backward strain on the ring D will cause the jaws to close together with a gripe proportioned to the strain.

E indicates the wire to be drawn, and F the reducing-die.

The jaw *a* is formed with a short rear angle, *e*, leaving a recess, *g*, at the back of said jaw *a*, while the jaw *a'* is provided with an angular portion, *i*, setting up in rear of the angle *e*, in such manner that the closing of the jaws onto the end of the wire E offsets or bends its extremity about the angle *e* into the recess *g*, thus giving a sure and secure hold on the end of the wire under all circumstances or conditions.

The form of the jaw *a'* is such as to permit of the straight wire E being passed into or through the recess *g* when the pinchers are open, as illustrated in Fig. 3.

The ordinary drawing-blocks, or mechanism for drawing the wire, when thrown into gear, act with a quick movement on the links or ring D, causing the pinchers to gripe onto and pull the wire with a sudden snap or jerking action, which, with the ordinary-formed pinchers, that close square down upon the wire, results in a frequent breaking of the wire, and often in fracture of the pincher-jaws, especially with heavy wire. This difficulty is obviated with my improved pinchers, since the bending of the wire between the jaws as they close together gives a certain degree of elasticity, and somewhat relieves the suddenness of the closing snap and jerking action on the wire as the drawing-block starts. Thus, by the avoidance of false or lost actions, much time and labor are saved by their use.

What I claim as my invention, and desire to secure by Letters Patent, is—

A pair of wire-drawing pinchers, wherein the jaws are arranged to offset or bend over the extremity of the wire when the pinchers are closed thereon, substantially as and for the purpose set forth.

Witness my hand this 23d day of March, A. D. 1878.

VIRGIL D. P. KENERSON.

Witnesses:

CHAS. H. BURLEIGH,
FRANK F. BULLARD.