

G. H. STRONG.
Pinchers.

No. 163,277.

Patented May 11, 1875.

Fig. 1.

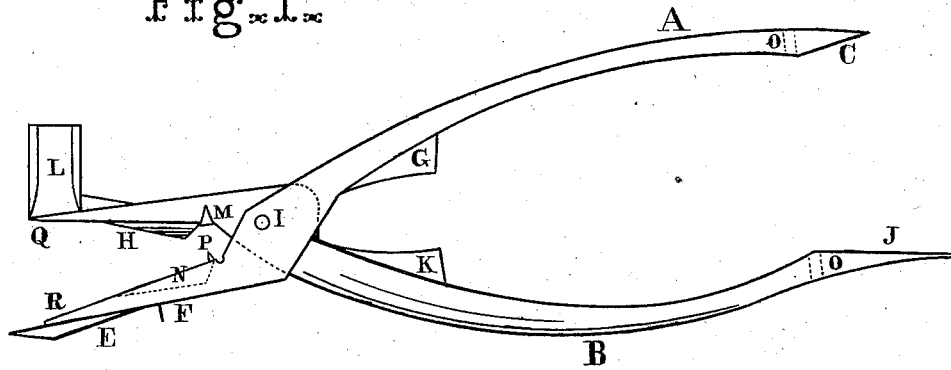


Fig. 2.

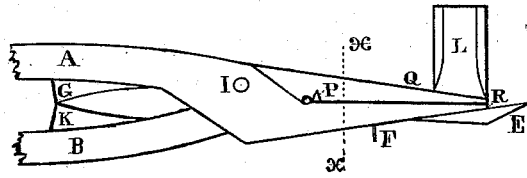
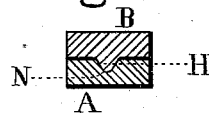


Fig. 3.



Attest:

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UNITED STATES PATENT OFFICE.

GEORGE H. STRONG, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN PINCHERS.

Specification forming part of Letters Patent No. **163,277**, dated May 11, 1875; application filed November 23, 1874.

To all whom it may concern:

Be it known that I, GEORGE H. STRONG, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Pinchers, of which the following is a specification:

The nature of the present invention consists in the jaws of pinchers with a swage, for fitting joints of pipe to each other. A stop or gage, being attached to the jaw of the pinchers, is used to bring the swage always the same distance on the pipe.

In the drawing, Figure 1 is a longitudinal elevation of my improvement in combination-pinchers; Fig. 2, a broken elevation of the opposite side from that shown in Fig. 1; Fig. 3, a section on line *x x*, Fig. 2.

A represents one lever of the pinchers, which is provided with a tack-claw on the end at C, a can-opener at E F, one side, G, of a nut-cracker, one part, H, of a swage, and one jaw of the pinchers. B represents the other lever, which is pivoted to the lever A at I, and provided with a screw-driver at J, the other side K of the nut-cracker, a hammer, L, a wire-cutter, M, and the other part N of the swage. The levers are also provided with holes O O through their longer ends, for turning off the tops of fruit-cans. The can-opener consists of a sharp point, E, and a cutter, F, of ordinary construction, and is to be used by thrusting the point and cutter into a can, and thus using

the point as a center to swing the pinchers on. The wire-cutter M is a piece of steel, either cast in the jaw or inserted afterward, and is placed back out of the way of articles to be grasped by the jaws, and close to the joint, so that wire may be easily cut. The swage consists of a semi-conical tongue, H, fitting a depression of exact reverse counterpart in the other jaw. The two levers, with attachments, are cast solid, of any suitable metal, and then riveted together, as shown at I.

To fit pipe, place jaws on the end of the pipe intended to go inside of the other length, so that the stop P will bear against the end; then press the jaws together, to crimp a corrugated pipe in as many places as will reduce the pipe to the proper size.

The manner of using the other devices on the levers will be understood from the drawing and foregoing description.

I have herein described the construction and use of the entire device, but confine the invention to the following claim.

I claim and desire to secure by Letters Patent of the United States—

The pivoted jaws Q R, provided with the swage H N and gage P, substantially as and for the purpose set forth.

GEORGE H. STRONG.

Witnesses:

G. L. CHAPIN,
JOHN H. ELLIOTT.