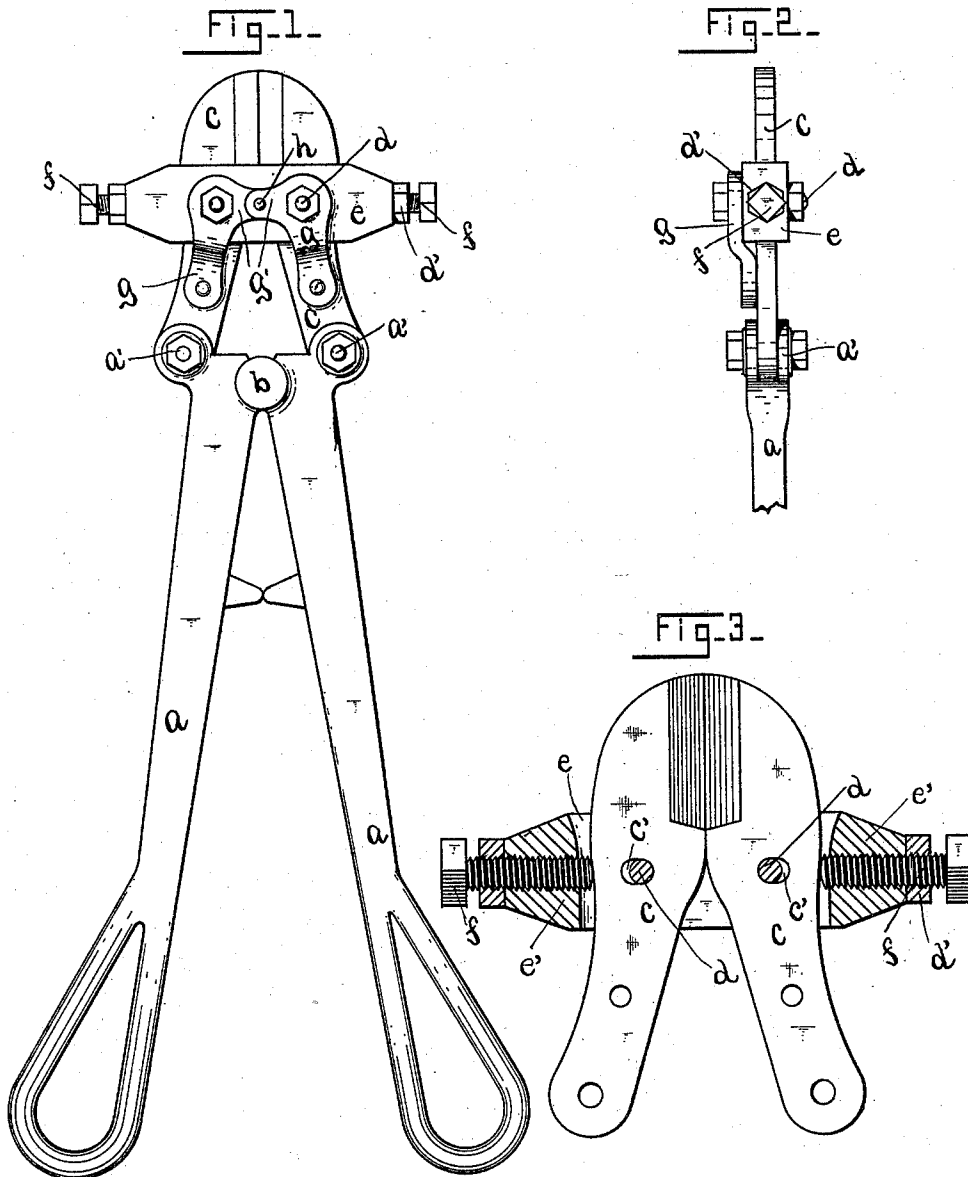


(No Model.)

C. W. HARRIS.
BOLT CUTTER.

No. 584,684.

Patented June 15, 1897.



WITNESSES

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CHARLES W. HARRIS, OF GARDNER LAKE, CONNECTICUT.

BOLT-CUTTER.

SPECIFICATION forming part of Letters Patent No. 584,684, dated June 15, 1897.

Application filed February 8, 1897. Serial No. 622,587. (No model.)

To all whom it may concern:

Be it known that I, CHARLES W. HARRIS, a citizen of the United States, residing at Gardner Lake, in the county of New London, State of Connecticut, have invented a certain new and useful Improvement in Bolt-Cutters, which improvement is fully set forth and described in the following specification, reference being had to the accompanying sheet of drawings.

This invention is in the well-known class of bolt and wire cutters; and my object is to provide a tool of such construction that the cutting-jaws thereof may be readily adjusted relatively to each other after having been sharpened, so as to bring their cutting edges parallel, thus insuring a perfect cut and also allowing the jaws to be ground back a considerable distance without destroying their usefulness.

To assist in explaining my invention, the accompanying sheet of drawings has been provided, which serves to illustrate the same, as follows:

Figure 1 is an elevation of my device as the same appears when in readiness for use. Fig. 2 is an edge view of the upper portion thereof. Fig. 3 shows detached and on a somewhat enlarged scale the jaws of the tool and portions thereof immediately related thereto and explains the manner in which their adjustment is accomplished.

Referring to the drawings, the letters *a a* denote the handles of the cutter, the same being pivoted together at *b*. Pivoted to handles *a a* at *a'* are steel jaws *c c*, that are fulcrumed on bolts *d* in a framework *e*, that encircles the jaw. In each end wall *e'* of frame *e* is a screw *f*, whose inner end abuts the outer edge of the adjacent jaw *c*, as best seen in Fig. 3 of the drawings, and the hole *c'* in the jaw, through which the fulcrum-bolt *d* passes, is elongated, as shown in said figure, so that lateral adjustment of the cutting-jaws *c* upon bolts *d* may be attained whenever necessary.

Reference-letters *f'* denote set-nuts on bolts *f* to prevent any accidental displacement of the latter.

Mounted on the jaws *c c* and bolts *d* are pieces *g*, having confronting right-angular extensions *g'*, overlapping each other and loosely pivoted together at *h*, the said angular pieces thus mounted serving to prevent the cutting-jaws from moving longitudinally relatively to each other.

After the jaws *c* have been ground back to sharpen them the screws *f f* are turned slightly forward when necessary in order to force the jaws into close relation with each other. If it were not for this, the act of grinding back the jaws might throw them out of cutting relation to each other, and the entire tool would soon become useless, but with the adjustment provided by my present invention the jaws may be sharpened and then adjusted relatively to each other many times, and the usefulness of the tool and the lifetime may be extended.

My improvement as a whole adds little or nothing to the cost of producing this class of bolt-cutters, while at the same time it increases their efficiency in that they may be used for a much longer period than heretofore.

Having thus described my invention, I claim—

In a bolt-cutter, in combination, jointed handles, cutting-jaws hinged to said handles and having transverse slots as set forth, a frame *e* inclosing said jaws, pivots *d d* extending through said frame and through the said slots in the cutting-jaws, and adjusting-screws seated in the said frame and abutting the outer edges of the jaws, substantially as and for the purpose specified.

CHARLES W. HARRIS.

Witnesses:

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