March 29, 1932. W. M. KEITH 1,851,771

CLIPPER

Filed April 28, 1931 3 Sheets-Sheet 1

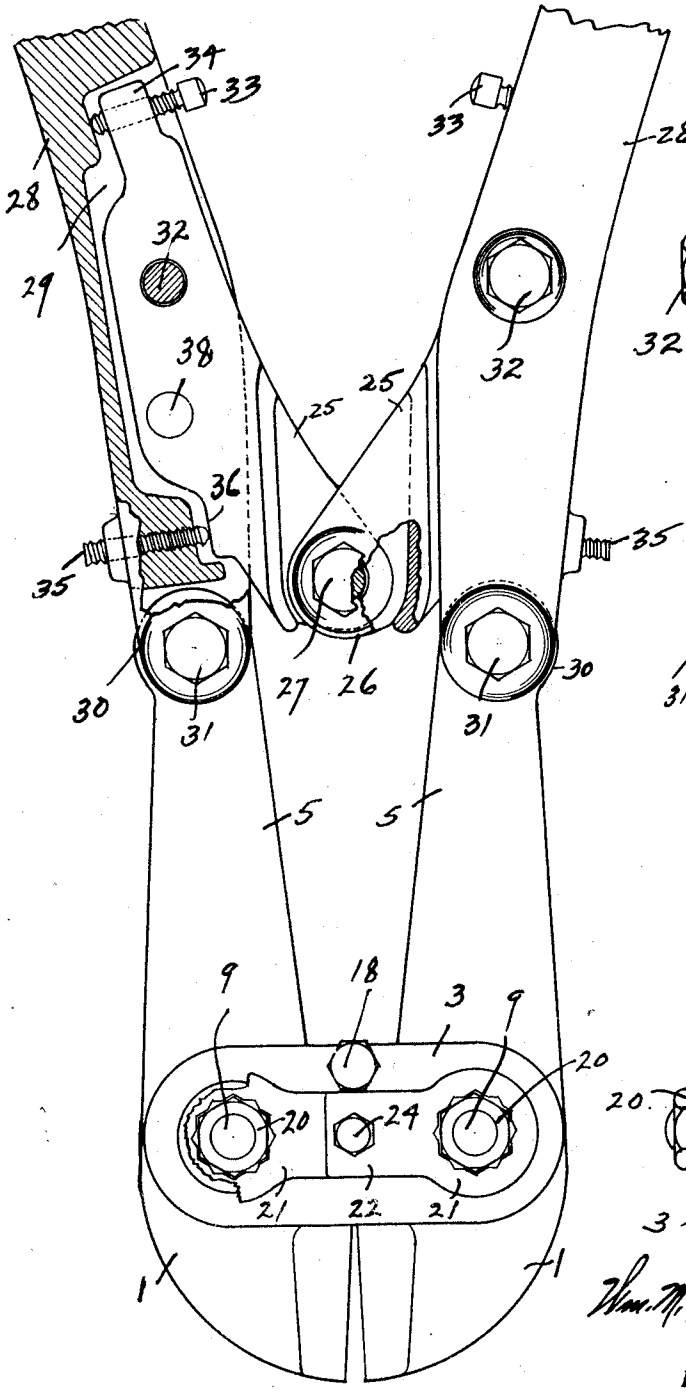

FIG 1

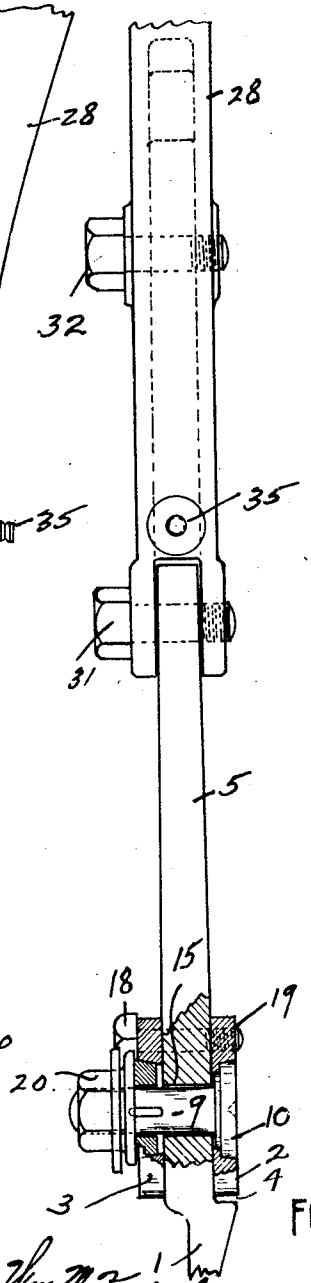

FIG 2

Wm. M. Keith INVENTOR.

BY C. A. Harfman ATTORNEYS.

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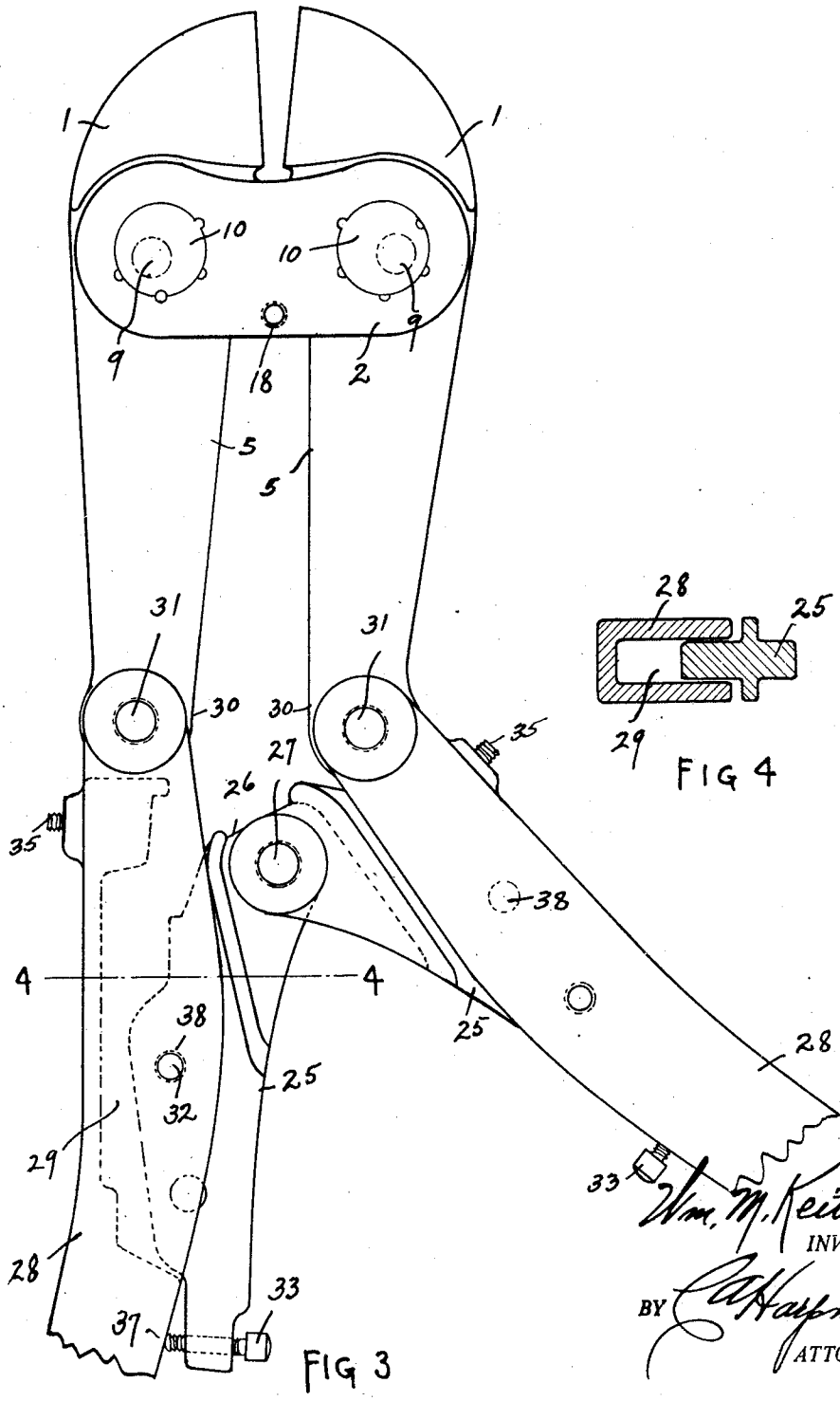

FIG 3

FIG 4

Wm. M. Keith
INVENTOR.

BY Albert G. Hoffman
ATTORNEYS.

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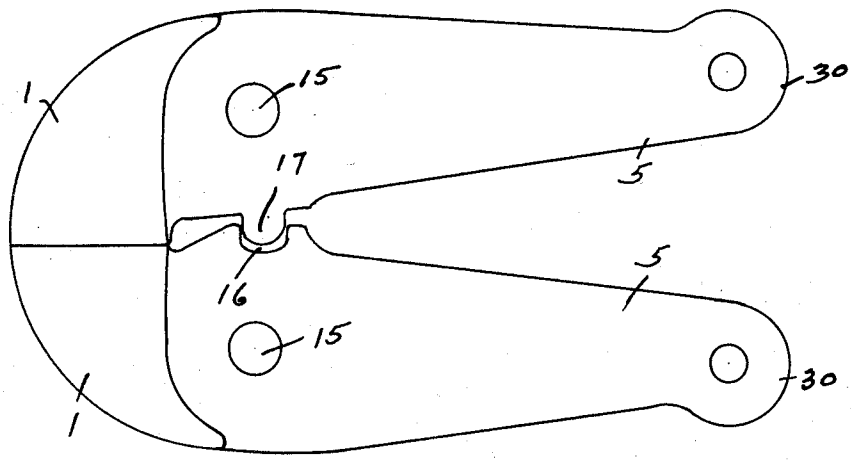

FIG 5

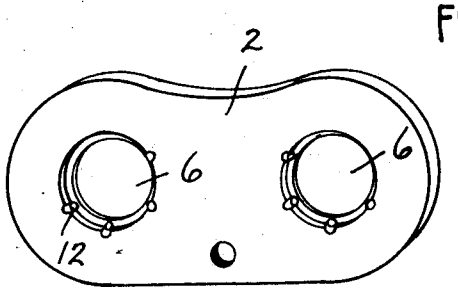

FIG 6

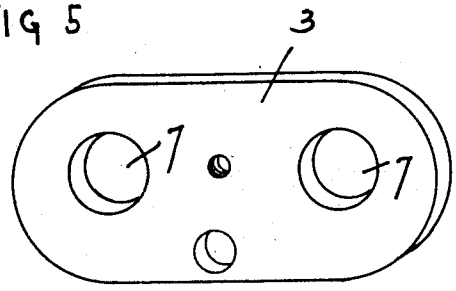

FIG 7

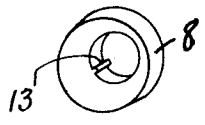

FIG 8

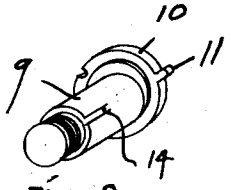

FIG 9

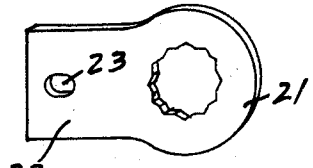

FIG 10

Wm. M. Keith
INVENTOR.

BY Chapman
ATTORNEYS.

Patented Mar. 29, 1932 1,851,771

UNITED STATES PATENT OFFICE

WILLIAM M. KEITH, OF YOUNGSTOWN, OHIO

CLIPPER

Application filed April 28, 1931. Serial No. 533,385.

This invention relates to clippers.

The principal object of this device is to provide a new and improved clippers used in cutting bolts, rivets, reenforcing bars and the like.

A further object of this invention is to provide a clippers that may be easily and accurately adjusted so that as the cutting blades are sharpened from time to time adjustments may be made so that the cutting edges of the clippers are in exact alignment.

A further object of the invention is to provide a tool which may be used in cutting rivets or bolts without unnecessary or customary tearing or breaking of the parts through which the rivets or bolts have been secured.

A further object of the invention is to provide means for adjusting handle members of the device so that a person may use the clippers in a position where it is advantageous to use but a single handle in operating the clippers.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, can be made within the scope of what is claimed, without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawings, wherein:

Figure 1 is a top plan view of the device with parts broken away.

Figure 2 is a side elevation of the device with parts broken away.

Figure 3 is a top plan view of the device showing a handle member in an adjusted position.

Figure 4 is a cross section taken on line 4—4 of Figure 3.

Figure 5 is a detail view of Figure 1 showing riveted side of jaws.

Figure 6 is a detail view of Figure 1.

Figure 7 is a detail view of Figure 1.

Figure 8 is a detail view of Figure 1.

Figure 9 is a detail view of Figure 1.

Figure 10 is a detail view of Figure 1.

By referring to the drawings it will be seen that I have provided a pair of clipper jaws 1. These clipper jaws 1 are held in oppositely disposed relation to each other by means of a lower plate 2 and an upper plate 3. The lower plate 2 is positioned in an offset 4 formed on lever arms 5 which are an extension of the clipper jaws 1.

By referring to Figures 2, 6, 7, 8, and 9 it will be seen that this lower plate 2 and the upper plate 3 are provided with openings 6 and 7 respectively which are utilized for the purpose of holding in adjustable position the clipper jaws 1 of the device. It will be seen that I have provided an eccentric disk 8 which fits in the openings 7 of the plate 3. It will also be seen that I have provided an eccentric bolt 9 which functions in the openings 6 and is provided with a head 10 which in turn has a keeper lug 11 which functions in any of a plurality of channel slots 12 formed on the inner edge of the openings 6 formed in the plate 2. The purpose of this keeper lug 11 and the plurality of channel slots 12 is to hold the clipper jaws in adjustable relation to each other. The eccentric disk 8 functions within the openings 7 of the upper plate 3. This eccentric disk 8 is provided with a keeper lug 13 which functions in a channel groove 14 formed on the eccentric bolt 9. The eccentric bolt 9 passes through oppositely disposed openings 15 in the lever arms 5. (See Figs. 2 and 5.) It will be seen that one of the lever arms 5 is provided with a recess 16 while the other lever arm 5 is provided with an extended portion 17 which functions within the recess 16. It will be seen that this recess 16 and the extended portion 17 are in alignment with the openings 15 through which the eccentric bolt 9 passes.

By referring to Figures 1 and 2 it will be seen that there is provided a lug 18 which passes through the upper plate 3 and is threaded and forms a threaded connection with an opening 19 in the lower plate 2. The purpose of this lug 18 is to provide additional means of holding the plates 2 and 3 in parallel relation to each other and to cause said plates to function closely with the lever

arms 5. In order to hold burs 20, which function with the eccentric bolt 9, from moving when in an adjusted position there is provided a pair of bur securing arms 21 which have overlapping inner ends 22. These overlapping inner ends 22 are each provided with an elongated opening 23 through which a keeper lug 24 functions. (See Figs. 1, 2, and 10.)

By referring to Figures 1, 2, and 3 it will be seen that there is provided a fulcrum unit comprising a pair of pivoted arm members 25 pivoted at a central point 26 by means of a pivot bolt 27. These pivoted arm members 25 are positioned between a pair of manipulating handles 28, each being normally placed within a recessed opening 29 of said pair of manipulating handles 28. These manipulating handles 28 are hinged at extreme outer ends 30 of the lever arms 5 by means of bolts 31. Figure 1 shows the normal position of the pivoted arm members 25 showing the same held in the recessed opening 29 by means of a bolt 32. It will be seen that there is provided adjusting lugs 33 which function at the extreme outer ends 34 of the pivoted arm members 25. It will also be seen that there is provided a second pair of adjusting lugs 35 which function with an adjusting seat 36 formed on the pivoted arm members 25.

By referring to Figure 3 it will be seen that, when it is desirable, one of the pivoted arm members 25 may be shifted into a secondary position by partially withdrawing the same so that one of the adjusting lugs 33 rests upon an outer portion of the handle member at point 37 and by placing one of the bolts 32 through an opening 38. It will be seen that when this adjustment is made an opposite handle 28 is moved outwardly forming a wider spread of the handles 28 and providing a convenient means of using the clippers where it is necessary to work in a corner underneath an object having bolts, rivets, or the like to be clipped.

What I claim is:—

1. In a device of the class described, a pair of lever arms, means for holding said lever arms in oppositely disposed relation to each other, a pair of jaws formed on said lever arms, means for adjusting said jaws, a pair of handle members hinged to said lever arms, a pair of pivoted arm members functioning between said handle members, means for adjusting said pivoted arm members in order to adjust clipper jaws, means for placing one side of said pivoted arm members in a secondary position to one of said handle members for the purpose of causing one of the handle members to be moved outwardly in order to utilize the device in a corner and underneath parts requiring cutting of bolts and the like, substantially as described.

2. In a device of the class described, a pair of lever arms, a pair of clipper jaws formed on said lever arms, a pair of plates oppositely disposed and holding between them, in spaced relation to each other, said lever arms, a pair of eccentric bolts passing through said plates and lever arms, means for adjusting and holding in an adjusted position said eccentric bolts for the purpose of aligning the cutting edge of said clipper jaws, a pair of handles for said device, a pair of pivoted arm members functioning between said handle members, means for adjusting said pivoted arm members in order to adjust the cutting edge of said clipper jaws, means for placing one of said pivoted arm members in a secondary position in order to throw one of said arm members outwardly beyond its normal position, substantially as described.

In testimony whereof, I affix my signature.

WILLIAM M. KEITH.