F. BEHAN.

FLASHER.

APPLICATION FILED JAN. 6, 1913.

**1,063,640.**

Patented June 3, 1913.

2 SHEETS—SHEET 1.

Fig. 2.

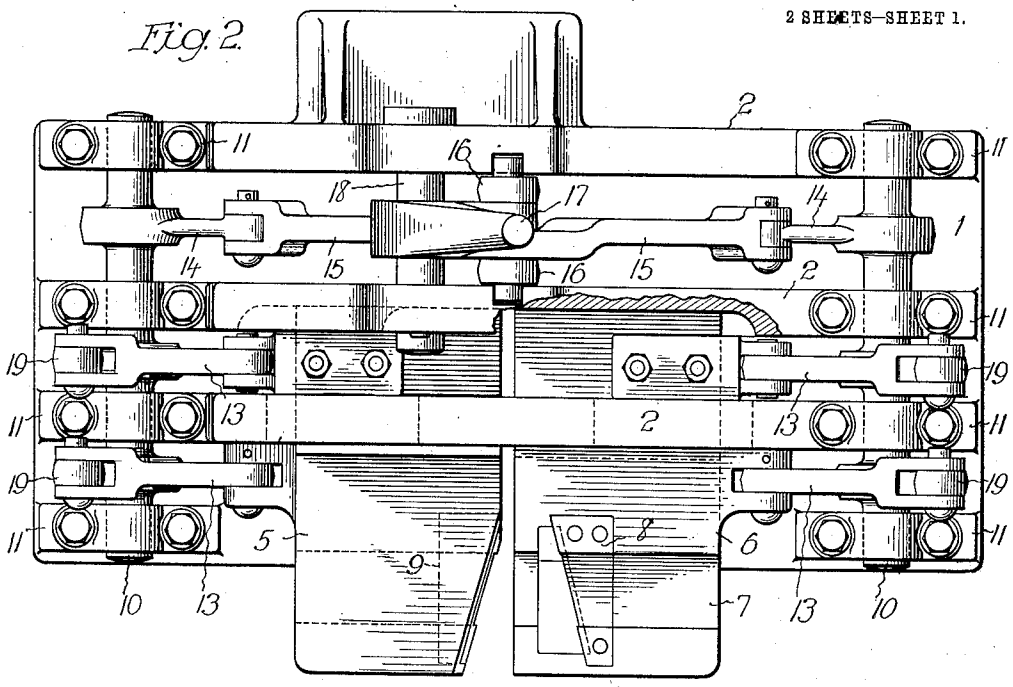
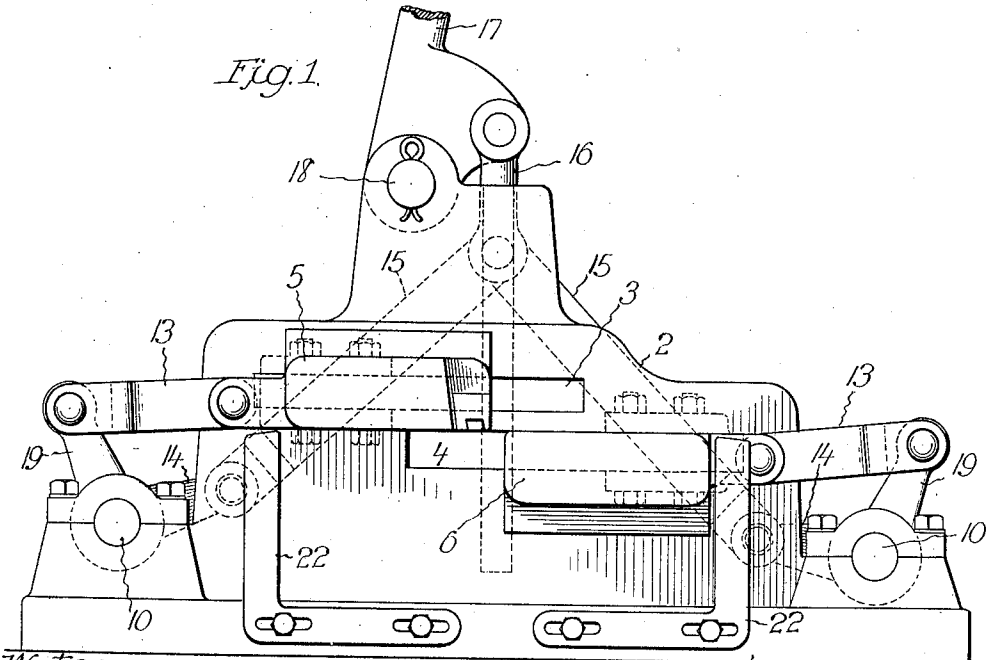



Fig. 1.




Witnesses

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2 SHEETS—SHEET 2.

Fig. 4

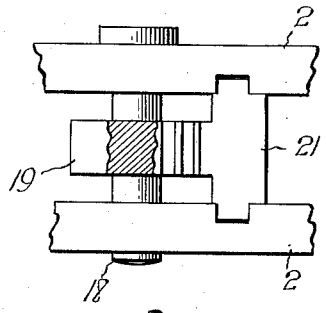


Fig. 5.

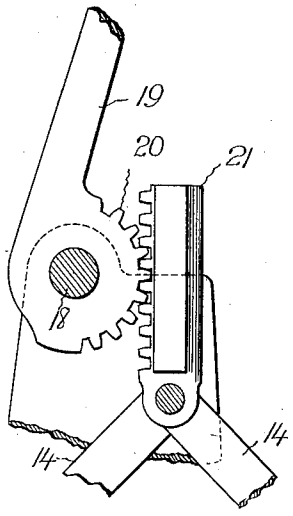


Fig. 3.




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# UNITED STATES PATENT OFFICE.

FRANK BEHAN, OF FLINT, MICHIGAN.

## FLASHER.

1,063,640. Specification of Letters Patent. Patented June 3, 1913.

Application filed January 6, 1913. Serial No. 740,506.

*To all whom it may concern:*

Be it known that I, FRANK BEHAN, a citizen of the United States of America, residing at Flint, in the county of Genesee and State of Michigan, have invented certain new and useful Improvements in Flashers, of which the following is a specification, reference being had therein to the accompanying drawings.

In electrically welding bars or rods together and more particularly where a butt joint is formed there is an excess of metal around the point of fusion which must be removed.

This invention relates to a device for this purpose adapted to be operated manually, known to the art as a flasher whereby excess material is quickly and readily sheared off, thus obviating the necessity of grinding or otherwise finishing the joint.

The invention consists in the matters hereinafter set forth and more particularly pointed out in the claims.

In the drawings, Figure 1 is a view in front elevation of an apparatus that embodies features of the invention; Fig. 2 is a plan view of the mechanism with parts broken away and omitted; Fig. 3 is a view in end elevation, and partially broken away and in section, of the device; and Figs. 4 and 5 are views in detail of a modification of an operating member.

As herein shown in preferred form a base 1 has central guide ribs 2 with overlapping slots 3 and 4 in spaced, parallel relation. A knife block 5 is reciprocable in the upper slots 3 and an oppositely disposed corresponding block 6 travels in the slots 4. The blocks are so proportioned as to pass each other in substantially sliding contact and have guide channels or grooves 7 that are in opposed relation in portions of the blocks which overhang or extend by the margin of the base 1 to afford ready clearance for the fitting or removal of stock. Oppositely disposed shear blades 8 and 9 are suitably secured in the blocks with their cutting edges conforming substantially to the cross section of the groove 7 after the manner of a planer knife. The cutting edges of the knives are thus adapted to dress stock not only in the plane of the bottom of the groove, but also on the sides thereof. Rock shafts 10 journaled in suitable bearings 11 on the base transverse to the slots 3 and 4 are each operatively coupled as by rock arms 19 and links 13 to the knife blocks 5 and 6 to reciprocate the latter past each other. Preferably the shafts are operated by lever arms 14 pivoted to the outer ends of toggle joint members 15, the latter being operated by a link 16 pivoted to a hand lever 17 which is fulcrumed on a suitable pin 18 8 on the base. Or a lever 19 may be provided with gear teeth 20 in mesh with a rack bar 21 that is coupled to the members 15 to operate the latter as indicated in Figs. 4 and 5. Suitable stops 22 are adjustably mounted on the base in alinement with the grooves 7 or throat openings of the blades.

In operation, stock that it is desired to trim is placed in the guide grooves of the knife blocks between the stops and the blocks oscillated by the lever so that the knives shear the surplus material from the inserted member and reduce the section at the joint to conformity with the body section. The blocks, guide slots therein and knives are, of course, given a cross sectional shape appropriate to the stock they are to finish. The flasher operates very rapidly and obviates the necessity of the application of a grinding or other finishing tool to the stock.

Obviously, changes in the details of construction may be made without departing from the spirit of my invention and I do not care to limit myself to any particular form or arrangement of parts except as set forth in the appended claims.

What I claim is:—

1. A flasher comprising a base provided with guide-ways, knife blocks reciprocable past each other in the guide-ways with registering channels in their proximate faces, shear knives mounted in the blocks with cutting edges conforming to and projecting into the respective channels, and means on the base for reciprocating the blocks past each other.

2. A flasher comprising a base, a pair of guide ribs thereon, pairs of overlapping guide slots in parallel spaced relation in the ribs, knife blocks reciprocable past each other in the slots with registering guide channels in their proximate faces, shear knives mounted in the blocks with cutting edges conforming to and projecting into the respective channels, and means on the base for reciprocating the blocks past each other.

3. A flasher comprising a base, a pair of guide ribs thereon, pairs of overlapping

guide slots in parallel spaced relation in the ribs, knife blocks reciprocable past each other in the slots with registering guide channels in their proximate faces, shear knives mounted in the blocks with cutting edges conforming to and projecting into the respective channels, a pair of rock shafts journaled on the base each operatively coupled to a block, an operating lever pivoted on the base, and toggle connections between the lever and rock shafts to swing the latter in opposite directions.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK BEHAN.

Witnesses:

MYRTLE B. HAUFMAN,

HOMER A. DAY.