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C. KACHEL

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LAWN MOWER CUTTER BAR

Filed Jan. 4, 1928

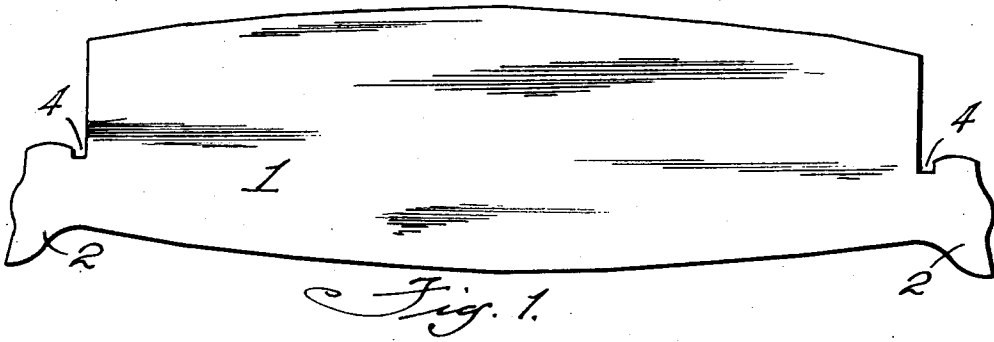


Fig. 2.

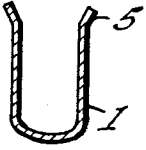


Fig. 3.

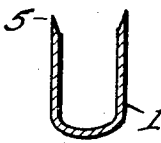


Fig. 5

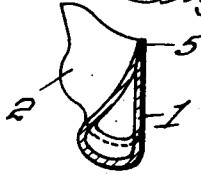


Fig. 4.

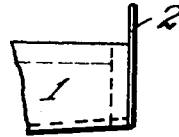


Fig. 7

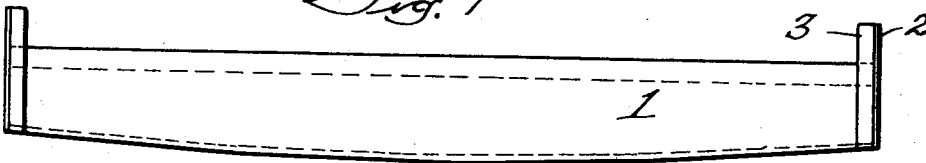
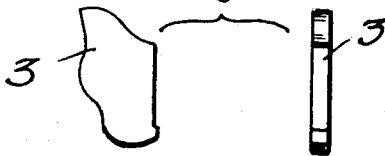


Fig. 6



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UNITED STATES PATENT OFFICE.

CHARLES KACHEL, OF REIFFTON, PENNSYLVANIA, ASSIGNOR TO PARISH PRESSED STEEL COMPANY, OF READING, PENNSYLVANIA, A CORPORATION OF DELAWARE.

LAWN-MOWER-CUTTER BAR.

Application filed January 4, 1928. Serial No. 244,410.

This invention relates to improvements in cutter bars for lawn mowers, and the object in the present instance is to provide a relatively strong and light cutter bar by pressing a blank from a sheet of steel and then forming it into the desired shape, whereby a cutter bar of substantially twice the strength of a cast iron bar will be obtained, one in which the cost is reduced, one in which the tendency to breakage is eliminated and one which lends itself more easily to the assembly of the mower than a solid cast metal bar would.

The invention is more fully described in the following specification and clearly illustrated in the accompanying drawing, in which:—

Figure 1 is a plan view of the blank, as it is cut from the sheet metal, ready to be bent into form.

Figure 2 is a sectional view of the plate after it has been given the initial step, that is, bending it into substantially U-shape.

Figure 3 is a like view with the ends tapered, ready to be joined for welding.

Figure 4 is a plan view of one end of the bar and Figure 5 an end view thereof, representing the bar ready to receive the end blocks.

Figure 6 represents one of the end blocks or re-inforcing members, and

Figure 7 is a plan view of the completed bar.

The numeral 1 represents the blank, cut from a sheet of metal, preferably steel, having the ears 2 at its extremities, ready to be bent up at right angles to form a closure for the bar ends and to coact with the re-inforcing blocks to form suitable body for receiving adjusting screws for the cutter blade, which, while not shown, lies, as usual along the one longitudinal edge of the bar.

The numeral 3 designates the blocks above referred to, and they are formed in the same general contour as the ears, and are adapted to fit in the recesses 4 formed at the ends of the blank, adjoining the ears 2.

The location of these blocks is shown clearly in Figures 6 and 7.

After the blank has been subjected to the initial step, which results in the U-shaped body shown in Figure 2, the longitudinal edges 5 are tapered and the next step will press these tapered edges into contact with each other, as in Figure 3, which joined edges are later to be subjected to a spot welding operation to secure them together.

The ears 2, on the ends of the blank, are then bent up at right angles to the blank body, and the blocks 3 are interposed between the ears and the body, the blocks accommodating themselves to the recesses 4, formed in the blank.

It will thus be noted that the result of the several steps above described, is a cutter bar of relatively great strength, speedily made, non-breakable and of a uniformity not obtainable with castings, which latter feature assures a perfect fit, with relation to the other or co-acting parts of the lawn mower, and all of which assures a better product at a reduced cost.

Having thus fully described by invention, what I claim and desire to secure by Letters Patent is:—

1. A lawn mower cutter bar, made from a sheet of metal, having an ear on each end and formed with a block receiving recess adjacent to each ear, and a pair of blocks secured in said recesses and adapted to bear against said ears.

2. A cutter bar for lawn mowers, comprising a hollow body portion of sheet steel formed with a pair of ears bent to form end closures for said body portion, and re-inforcing blocks secured in the ends of the body in contact with the ears.

3. In a lawn mower cutter bar, a hollow body made from a blank of sheet metal bent upon itself longitudinally and having said longitudinally meeting edges welded together, ears formed on the ends of the blank and adapted to fold against the body portion, and blocks interposed between the ends of the body and the ears.

In testimony whereof I affix my signature.

CHARLES KACHEL.