

(No Model.)

J. W. BAKER & J. LACEY.
CUTTER BAR ATTACHMENT.

No. 458,151.

Patented Aug. 25, 1891.

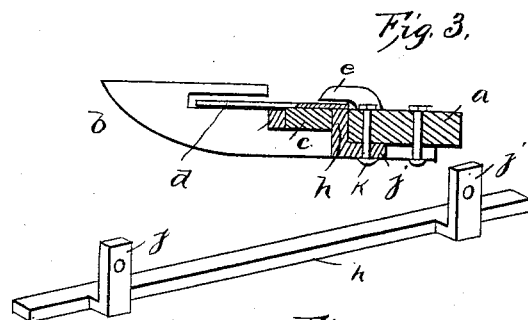
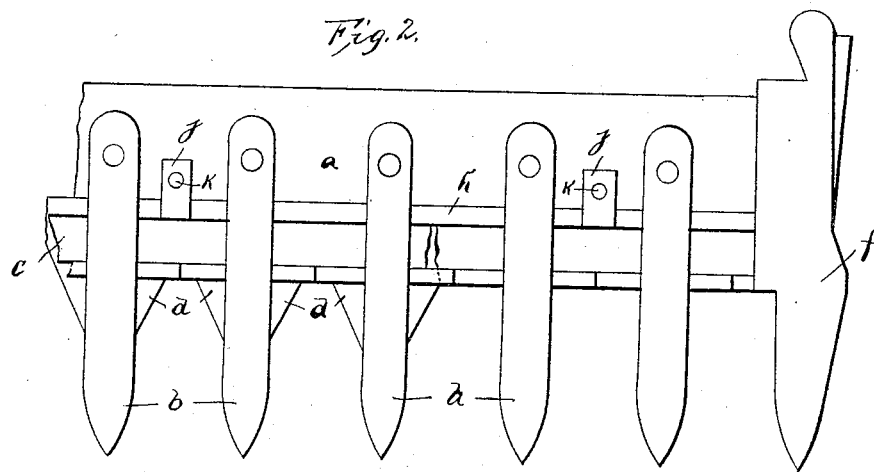
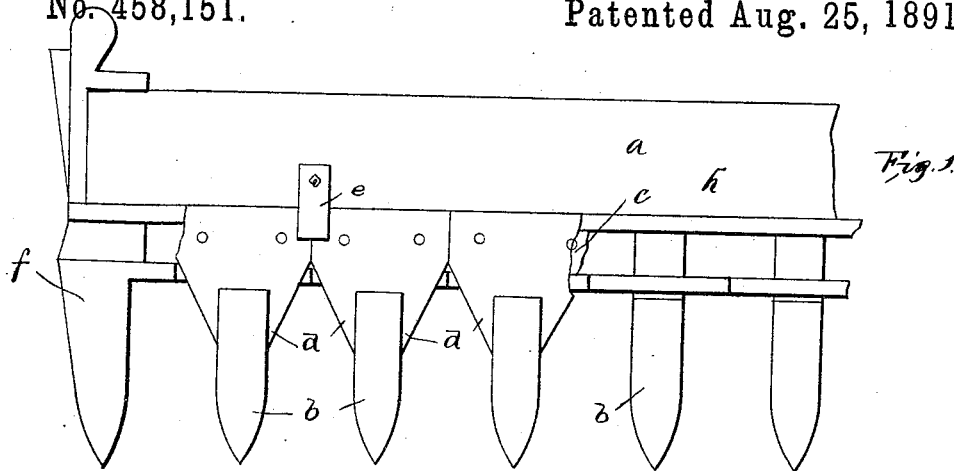


Fig. 4.

WITNESSES:
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UNITED STATES PATENT OFFICE.

JOHN W. BAKER AND JOHN LACEY, OF BAKERSFIELD, CALIFORNIA.

CUTTER-BAR ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 458,151, dated August 25, 1891.

Application filed January 30, 1891. Serial No. 379,650. (No model.)

To all whom it may concern:

Be it known that we, JOHN W. BAKER, a citizen of the United States, and JOHN LACEY, a subject of the Queen of Great Britain, residing at Bakersfield, in the county of Kern and State of California, have invented certain new and useful Improvements in Cutter-Bar Attachments; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to certain improvements in reciprocating cutting apparatus for harvesters, mowers, &c.

The object of the invention is to provide certain improved means to prevent back wear of the sickle or scythe bar against the fingers and outside shoe, and thereby prevent the sickle-bar riding up rearward, and hence cut, wear, and injure the parts and render the machine inoperative. These objects are accomplished by and our invention consists in certain novel features of construction and in combinations of parts more fully described hereinafter, and particularly pointed out in the claims.

Referring to the accompanying drawings, Figure 1 is a top plan of a cutting apparatus provided with this invention, a portion being broken away. Fig. 2 is a bottom plan. Fig. 3 is a cross-section. Fig. 4 is a detail perspective of the protective or wearing bar.

In the drawings, the reference-letter *a* indicates the guard-bar, carrying guards *b*, as usual, the rear of the guards and front edge of guard-bar being formed to snugly receive the reciprocating sickle-bar *c*, carrying blades *d*. These parts are of any ordinary construction, and the sickle-bar is held down by buttons *e* or other suitable means.

f is the outer shoe, across which the sickle-bar reciprocates.

h is the continuous hard-metal protective bar extending transversely across the upper face of all the guards and end shoe and between the rear edge of the sickle-bar and front edge of the guard-bar, preferably, with its upper edge flush with the upper face of the guard-bar with the rear ends of the blades extending over it. This bar is preferably rectangular in cross-section, and is secured by the right-angular lips or fingers *j*,

extending down from the under side of the bar and then at right angles beneath the guard-bar and being secured by bolts *k*, passing up through said fingers, the guard-bar, and the buttons, before described. A suitable number of these securing-fingers are employed, and they are located between the guard-fingers, and are preferably integral with the protective bar. This protective bar takes the place of the heels on the fingers.

As before mentioned, this invention comprises a hard-metal protective strip extending the entire length of the cutting-bar and across the outside shoe to prevent the back wear of the sickle-bar against the guard-bar, fingers, and outside shoe.

Ordinarily when the heels are worn off the guard-fingers the fingers have to be replaced by new ones, which costs a great deal. With our invention, when the heels wear, they are cut entirely off and the continuous protective bar is substituted in place thereof.

This protective bar is very inexpensive and can be easily put on or replaced, and as the bearing-surfaces of the bar are very hard and smooth dirt and grit will not adhere thereto.

Having thus fully described our invention, what we claim, and desire to secure by Letters Patent of the United States, is—

1. As an article of manufacture, the herein-described protective bar for the purpose set forth, rectangular in cross-section, composed of hard metal and having the depending angular securing-brackets, substantially as described.

2. A reciprocating cutting apparatus having the herein-described continuous hard-metal protective strip extending completely across the guard-fingers and outside shoe, said strip fitting across the portions of the guards from which the heels thereof have been removed and provided with angular arms formed integral with such strip and secured to one side of the guard-bar, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

JOHN W. BAKER.

JOHN LACEY.

Witnesses:

C. C. COWGILL,

GEO. C. GORHAM, Jr.