

H. MEWES.
Harvester-Cutters.

No. 134,085.

Fig: 1.

Patented Dec. 17, 1872.

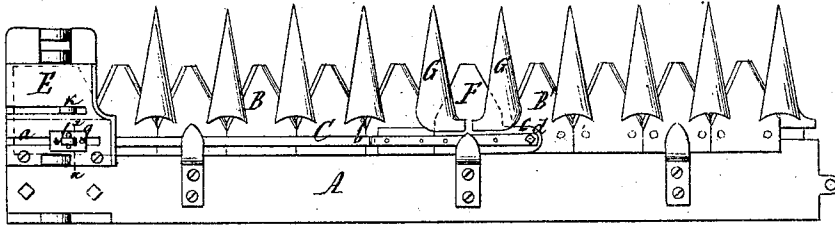


Fig: 2.

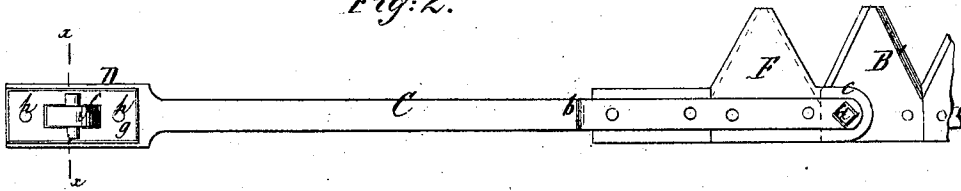


Fig: 3.

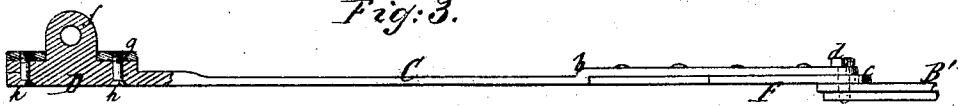


Fig: 4.



Fig: 5.

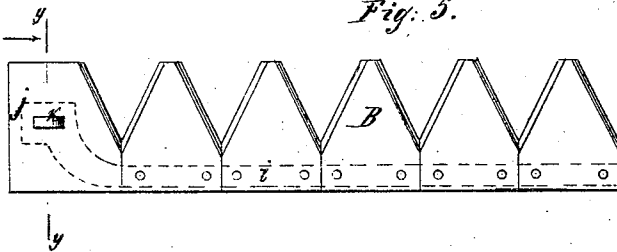
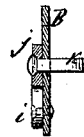


Fig: 6.



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UNITED STATES PATENT OFFICE.

HENRY MEWES, OF BINGHAMTON, NEW YORK.

IMPROVEMENT IN HARVESTER-CUTTERS.

Specification forming part of Letters Patent No. 134,085, dated December 17, 1872.

To all whom it may concern:

Be it known that I, HENRY MEWES, of Binghamton, in the county of Broome and State of New York, have invented a new and useful Improvement in Cutter-Bars for Mowers and Reapers; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a plan or top view of my cutter-bar complete; Fig. 2 is a plan of the inner portion of the outside cutter on a larger scale than the previous figure; Fig. 3 is a sectional side view of the same; Fig. 4 is a transverse section of its head, the line *x x*, Figs. 1 and 2, indicating the plane of section; Fig. 5 is a plan of the inside cutter detached; and Fig. 6 is a transverse section of the same in the plane *y y*, Fig. 5.

Similar letters indicate corresponding parts.

This invention relates to certain improvements in cutter-bars of that class in which two independent sets of cutters move in opposite directions. These improvements consist in the arrangement of an upward bend on the rod which connects the outer section of cutters with the sliding head in such a manner that room is obtained for the top cutter; also in the arrangement of a projecting flange on said top cutter for the purpose of strengthening the connecting slide-rod for the reception of the bolt which secures the same to the outer section of cutters.

In the drawing, the letter A designates a cutter-bar which contains two sections of cutters, B B', moving in opposite directions. The outer section B' connects, by means of a slide-rod, C, with a head, D, fitted in a guide-groove, *a*, in the shoe E. The slide-rod C is provided with an upward bend, *b*, (see Fig. 3,) to make room for the top cutter F, which works inside of the raised fingers G G and which materially aids in preventing the cutters from choking. From the top cutter F extends a flange or lateral arm *c* beyond the end of the slide-rod, so as to strengthen the hold of the bolt *d* which connects said slide-rod to

the outer section of cutters, and also to produce a firm connection between the top cutter and the outer section of cutters. The bearing-surfaces *e* (see Fig. 4) of the head D are stair-shaped to correspond to similar bearing-surfaces in the guide-groove *a*, and from said head projects an eye-stud, *f*, to connect the slide-rod C with its driving-crank. Over the stud *f* is dropped a plate, *g*, which is connected to the head D by screws *h*, (see Fig. 3,) and which bears on the surface of the head, leaving just room enough to allow said head to move freely in the guide-groove *a*. If the friction-surfaces of the head or of the guide-groove wear off, the plate *g* can be readily removed, and by filing the head down said plate can be so adjusted that the head moves in its guide-groove without any objectionable play. The inner section of cutters B is supported by a bar, *i*, (see Figs. 5 and 6,) which is provided with a flange, *j*, extending under the eye-stud *k*, which serves to connect said section of cutters with their driving-crank, and by these means the eye-stud receives a good hold and is prevented from working loose. If the eye-stud is fastened simply in the thin plate from which the cutters are made it works out in a short time and it proves a constant source of trouble.

What I claim as new, and desire to secure by Letters Patent, is—

1. The top cutter F secured within the recess of the slide-rod C, said recess formed by the upward bend *b*, and said cutter interposed between the raised fingers G G and the outer section B', and out of the same cutting-plane of the said sections B B', as herein shown and described, for the purpose set forth.

2. In combination with the cutter F, formed with the lateral arm *c*, shown and seated within the recess formed by the upward bend *b* of the slide-rod, the cutter-sections B B', when the inner knife of section B' is connected with the slide-rod and the overlapping-arm *c* of the cutter F by the bolt *d*, substantially as and for the purpose specified.

HENRY MEWES.

Witnesses:

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