

G. BRADT.
CUTTER BAR FOR HARVESTERS.
APPLICATION FILED APR. 15, 1909.

946,005.

Patented Jan. 11, 1910.

Fig. 1.

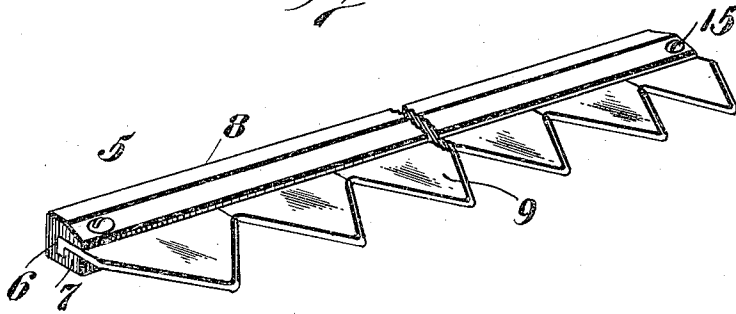


Fig. 2.

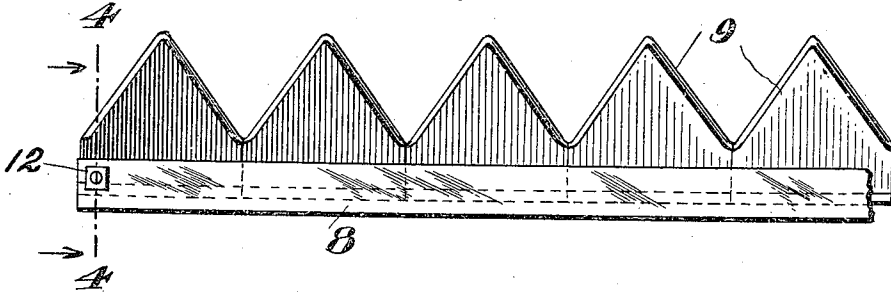


Fig. 3.

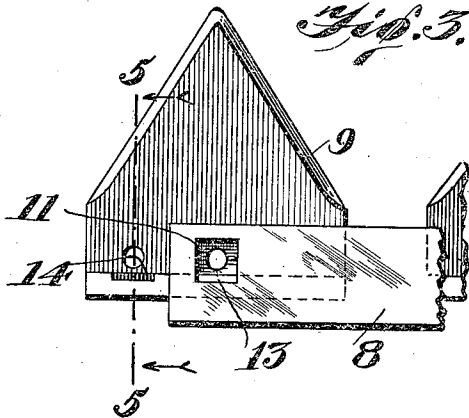


Fig. 4.

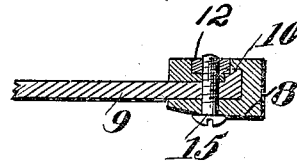
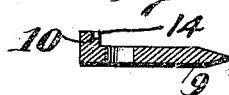


Fig. 5.



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UNITED STATES PATENT OFFICE.

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CUTTER-BAR FOR HARVESTERS.

946,005.

Specification of Letters Patent.

Patented Jan. 11, 1910.

Application filed April 15, 1909. Serial No. 490,040.

To all whom it may concern:

Be it known that I, GARRET BRADT, a citizen of the United States, residing at Canajoharie, in the county of Montgomery and State of New York, have invented certain new and useful Improvements in Cutter-Bars for Harvesters, of which the following is a specification.

My invention relates to cutter bars for harvesters and the like, and one of the objects thereof is to provide means whereby the sections comprising the knife may be readily disconnected and detached from either end of the knife-bar.

Another object contemplated by the invention is the provision of novel locking means for the end sections of the knife.

To the accomplishment of the recited objects, and others coördinate therewith, the preferred embodiment of my invention resides in that arrangement and construction of parts hereinafter described, illustrated in the accompanying drawings, and embraced within the scope of the appended claims.

In said drawings:—Figure 1 is a perspective view of the cutter bar embodying my invention. Fig. 2 is a top view of a portion thereof. Fig. 3 is a top view of a portion of the knife-bar, showing one of the sections partly removed. Fig. 4 is a transverse sectional view taken along lines 4—4 of Fig. 2, and Fig. 5 is a transverse sectional view taken along lines 5—5 of Fig. 3.

Similar reference characters designate corresponding parts throughout the several views.

In carrying out my invention, I utilize a knife-bar 5 which is provided with a longitudinally disposed, medially arranged L-shaped slot 6, the said slot running through opposite ends of the bar. In this connection it will be observed that I form a bottom portion 7 of the knife-bar slightly thicker than the upper portion 8 thereof, to serve as a reinforcement.

As previously stated, the knife comprises a plurality of sections 9, said sections having a lower substantially right angular portion 10 which is designed for engagement with the correspondingly shaped slot 6 in the knife-bar 5. All of the knife sections are identical in construction with the exception of those located at the outer terminals of the knife-bar which operate in a manner to be presently explained for the purpose of main-

taining intermediate sections in proper relative positions.

Adjacent each terminal and preferably on the thicker portion 7 of the knife-bar 5 I provide a squared recess 11 which affords a receptive space for the nut 12. The base of the recess 11 is so disposed with respect to the L-shaped slot 6 of the knife-bar that a slotted communication 13 is established, the same having registration with the similarly disposed recess 14 on the upper corner of the angularly deflected portion 10 of the end knives. In addition to the means just described for securing the knife sections to the knife-bar, I employ a bolt 15 which extends transversely through the entire organization and is held fast in an obvious manner by the nut 12.

With this construction of cutter bar the knife sections may be detached from the knife-bar at either terminal of the latter which feature is a marked advantage over cutter bars when provision is made for the removal of the knife sections at only one end of the bar. In furtherance of this principle the means for retaining the knife sections in proper relationship is positive and eliminates any possibility of the sections becoming loosened or otherwise disarranged as to impair the operation of the device.

It should be understood that in its broader aspect the invention comprehends the employment not only of the various means described, but of equivalent means for performing the recited functions.

While the arrangement shown, is thought, at the present time, to be preferable, it is desired to reserve the right to effect such modifications and variations as may come fairly within the scope of the appended claims.

What I claim is:—

1. A cutter bar comprising a knife-bar having an L shaped slot arranged the entire longitudinal extent thereof, a plurality of knife sections, each section having a short angular portion for engagement with said slot, and means extending transversely through said knife-bar at a point outwardly of the shorter angular portions of the outer end knife sections for locking all of said knife sections together.

2. A cutter bar comprising a knife-bar having a slot extending the entire longitudinal extent thereof, a plurality of knife

sections, each section having an angular portion for engagement with said slot, the terminals of the knife-bar, and the end knife sections having registering openings, each
5 of the angular portions of the end knife sections being provided with a recess, and means extending through said openings and engaging said recesses for locking all of the knife sections together.

10 3. A cutter bar comprising a knife-bar having a slot extending the entire longitudinal extent thereof, a plurality of knife sections, each section having an angular portion for engagement with said slot, the
15 terminals of the knife-bar and the end knife

sections having registering openings, each of the angular portions of the end knife sections being provided with a recess, a bolt extending through said openings, and a nut carried by said bolt and seated within the
20 opening of the knife-bar, said nut adapted to engage said recess for locking all of the knife sections together.

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

GARRET BRADT.

Witnesses:

T. G. WANER,
MARSHALL KANE.