Aug. 27, 1929. J. D. BARBER 1,726,378

MOWER AND BINDER GUARD

Filed April 2, 1925

Fig. 1.

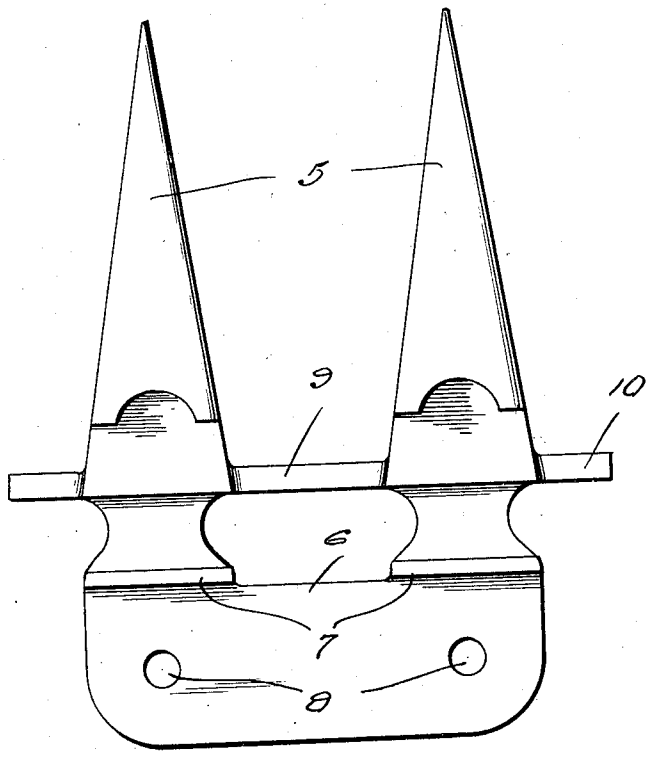
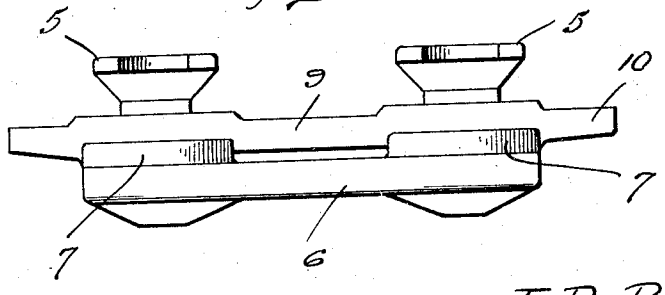


Fig. 2.



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UNITED STATES PATENT OFFICE.

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MOWER AND BINDER GUARD.

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The present invention relates to mower and binder guards and aims to provide a highly novel and improved structure.

In the mower and binder guard now in common use, the guard fingers are each a separate unit being held to the bar by bolts, one for each guard finger.

With this common structure, experience has taught that as soon as one bolt becomes loose, all of the guard fingers become inefficient and ineffective, because the guard fingers are held against rotation, by being situated alongside of one another, so that when one gets out of alignment, the others are free to rotate to some extent. The same detrimental effect is brought about when a guard becomes bent, as quite frequently happens. It is the principal object of my invention to overcome these undesirable features of the conventional guards now in common use; and to attain other features of advantage, as will become apparent as the structure of my improvement is disclosed.

The invention further aims to provide a group of two or more fingers, in a single unit, held rigid on a base plate, which is attached to the bar by a pair of bolts, there being one finger for each knife of the cutter.

A further very important object of the invention is to provide a guard of this nature, which possesses an exceedingly simple structure that may be manufactured at a comparatively low cost, and will prove efficient and reliable in operation, one which is strong, durable, and otherwise well adapted to the purpose for which it is designed.

With the above and numerous other objects in view, as will appear as the description proceeds, the invention resides in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawing:

Figure 1 is a top plan view of the unit embodying the features of my invention, and

Figure 2 is a rear edge elevation thereof.

Referring to the drawing in detail, it will be seen that the unit, which I have disclosed in the accompanying drawing, by way of example has only a pair of guard fingers 5, but of course the number thereof may be multiplied as may be desired. A base plate 6 is formed integral with or otherwise rigidly fixed to the rear ends of these fingers 5. Shoulders 7 are formed at the rear ends of the fingers, adjacent the base plate 6. The base plate is provided with a pair of openings 8, so that it may be bolted to the bar by two bolts, thus preventing rotation thereof in relation to the bar. The shoulders 7 abut against the bar and tend to prevent rotation of the unit. The fingers 5 have an integral brace piece 9 disposed therebetween and brace pieces 10 projecting from the outer sides thereof for engagement with similar brace pieces of other units.

With a plurality of these group units mounted on a bar, it will be seen that the loosening of the one bolt will have practically no effect on the different groups, and very little effect upon the particular group unit held thereby, because one bolt with the assistance of the shoulders 7 will be sufficient to hold the unit properly. No detrimental effect will be caused by the bending of a guard.

It is thought that the construction and advantages of the invention will now be readily appreciated by those skilled in this art, without a more detailed description thereof. It is evident that numerous changes in the details of construction, and in the combination and arrangement of parts may be resorted to, without departing from the spirit or scope of the invention as hereinafter claimed or sacrificing any of its advantages.

Having thus described my invention, what I claim as new is:

A group unit of the class described including a base plate, a plurality of guide fingers rigidly projecting from the base plate so that the median longitudinal dimensions of the guide fingers are disposed perpendicularly to the median longitudinal dimension of the base plate, shoulders formed immediately at the junctures of the fingers with the base plate, said base plate provided with a pair of openings for receiving bolts, a brace between the guard fingers in spaced relation to and parallel to the front edge of the base plate, and additional braces projecting outwardly from the finger in alinement with the first brace.

In testimony whereof I affix my signature.

J. DWIGHT BARBER.