Nov. 20, 1928. 1,692,494

L. EISELE

SUPPORT FOR KNIVES OF MOWING MACHINES

Filed Oct. 21, 1925 2 Sheets-Sheet 1

Fig. 1.

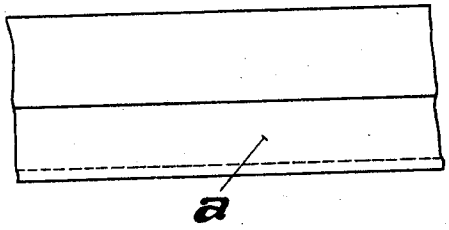


Fig. 2.

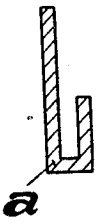


Fig. 3.

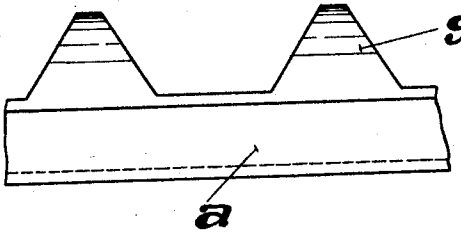


Fig. 4.

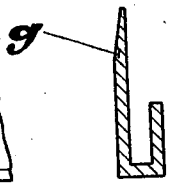


Fig. 5.

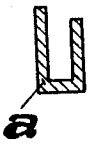


Fig. 6.

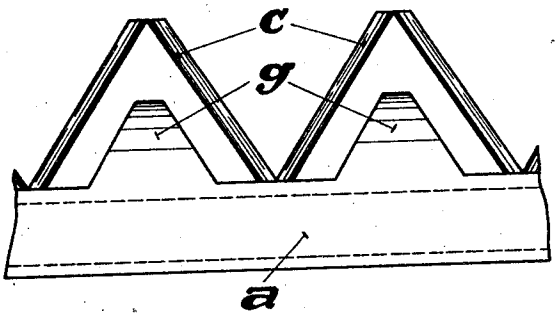
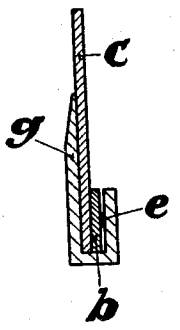


Fig. 7.



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Fig. 8.

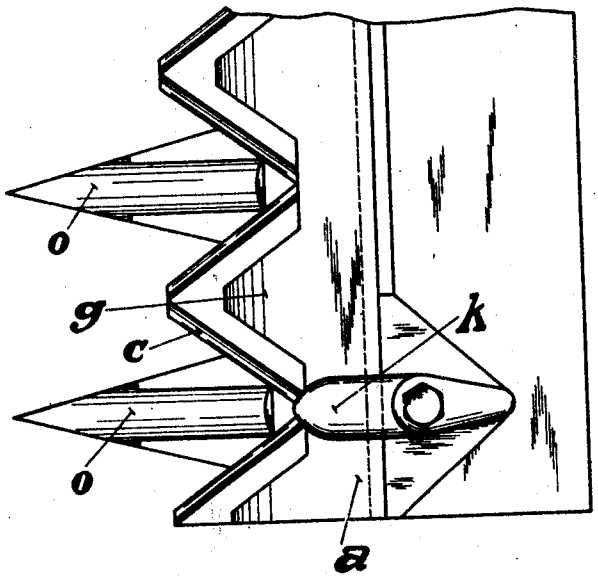
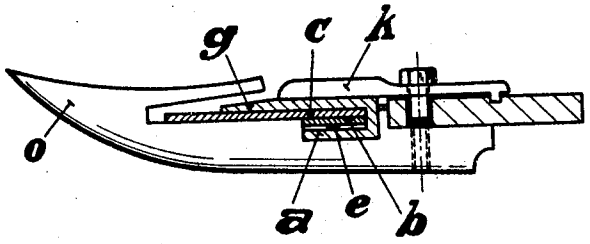


Fig. 9.



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UNITED STATES PATENT OFFICE.

LEONHARD EISELE, OF PFAFFENHOFEN, POST BUTTENWIESEN, GERMANY.

SUPPORT FOR KNIVES OF MOWING MACHINES.

Application filed October 21, 1925, Serial No. 63,897, and in Germany October 29, 1924.

This invention relates to supports for knife bars for mowing machines whereby the knife blade is inserted into a supporting bar which is bent in U-shaped manner and having a bottom plate and a top plate of different length, said bar thus reciprocating with the knives. According to this invention the top plate of this supporting bar is made of greater width than the bottom plate and cut out in tongue-shaped manner, and more particularly in such a way that the several tongues of the top plate will rest upon the several blades of the knife. By the projecting tongues every individual knife blade will be kept up to its point at the fingers, so that a lifting of the knives from the fingers is rendered impossible. Also every individual knife blade may be pressed independently from the others upon the fingers of the cutting beam, which in case of a rigid back of the knife will not be possible. In the known mowing knives by reason of the lifting of the knife blades from the fingers, the latter will very easily become wrapped up by grass tufts, so that the grass will no more be properly cut but more or less be squeezed off. This disadvantage, which causes working difficulties in the known machines after a relatively short time is avoided by the device according to this invention. Also the exchanging and cleaning of the knife will be rendered essentially easier. In addition, an uneven fit of the fingers in the cutting beam may be compensated by this invention.

In the drawing a support for knife bars according to this invention is shown by way of an example. Figs. 1 and 2 show a general arrangement with a supporting bar, while Figs. 3 and 5 show the supporting bar provided with tongues, and Figs. 6 and 7 represent the knife bar in connection with the supporting bar in a view and section respectively. Figs. 8 and 9 show the knife bar and the supporting bar in connection with the fingers. The knife blades *c*, as Fig. 7 shows, are riveted by means of rivets *e* having semi-spherical heads, to the knife back *b*, and inserted together with the latter into the U-shaped supporting bar *a* in such a manner, that the projecting tongues *g* of the top plate of the supporting bar *a* will rest upon the several blades of the knife. Figs. 8 and 9 show the connection of the supporting bar *a* and of the knife with the finger beam, carrying the several fingers *o*. The supporting bar *a* moves together with the knife bar within the fingers *o* and the guiding members *k*, which are kept on the finger beam by means of screws.

I claim:

A support for the knives of mowing machines, comprising a U-shaped supporting bar having a top plate of relatively great width and a bottom plate of relatively small width, said top plate being cut out to form a plurality of tongues, said tongues being adapted to rest upon the several blades of the mowing knife when inserted into the support.

In testimony whereof I have affixed my signature.

LEONHARD EISELE.