No. 623,112. Patented Apr. 11, 1899.

J. C. SHANKS.

GUARD FINGER.

(Application filed June 3, 1898.)

(No Model.)

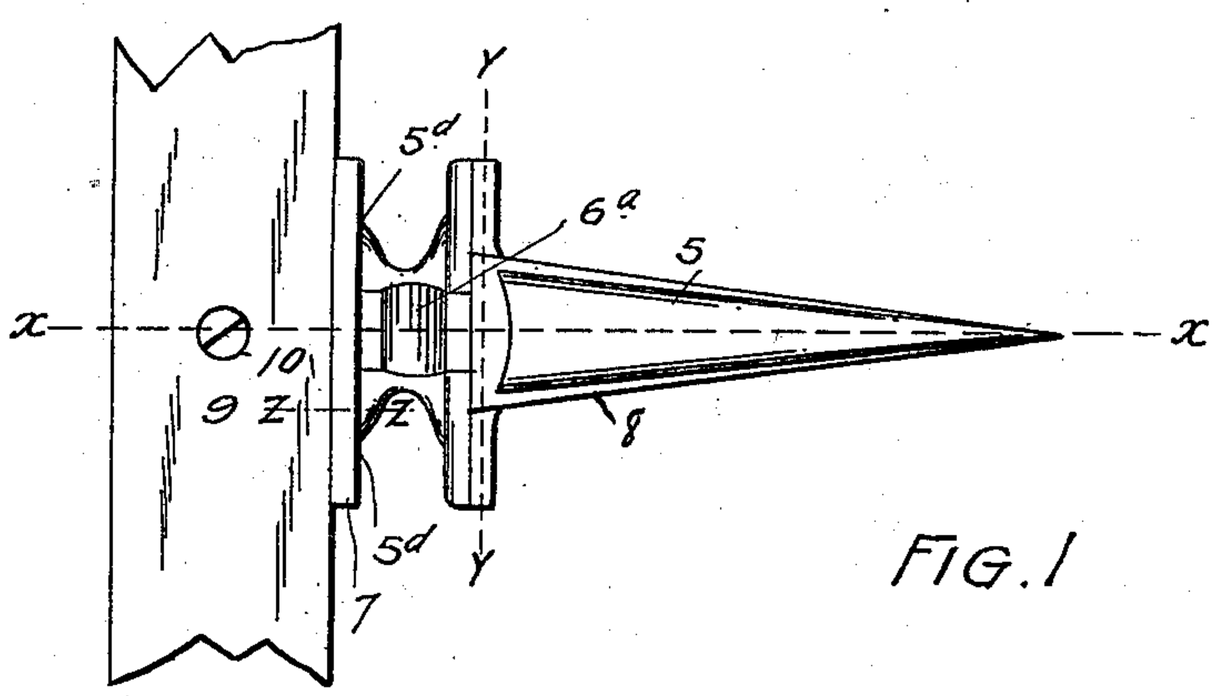

FIG. 1

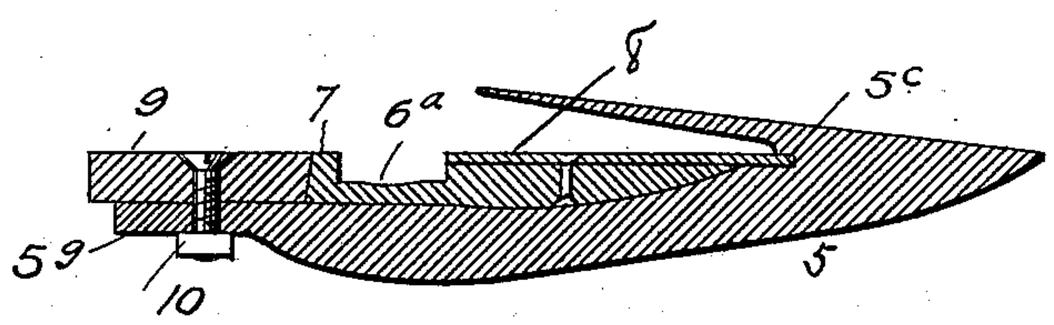

FIG. 2.

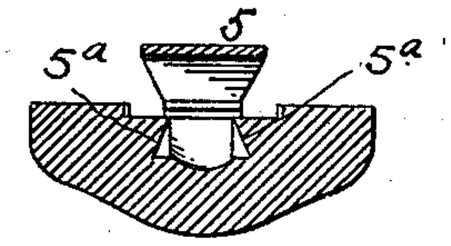

FIG. 3

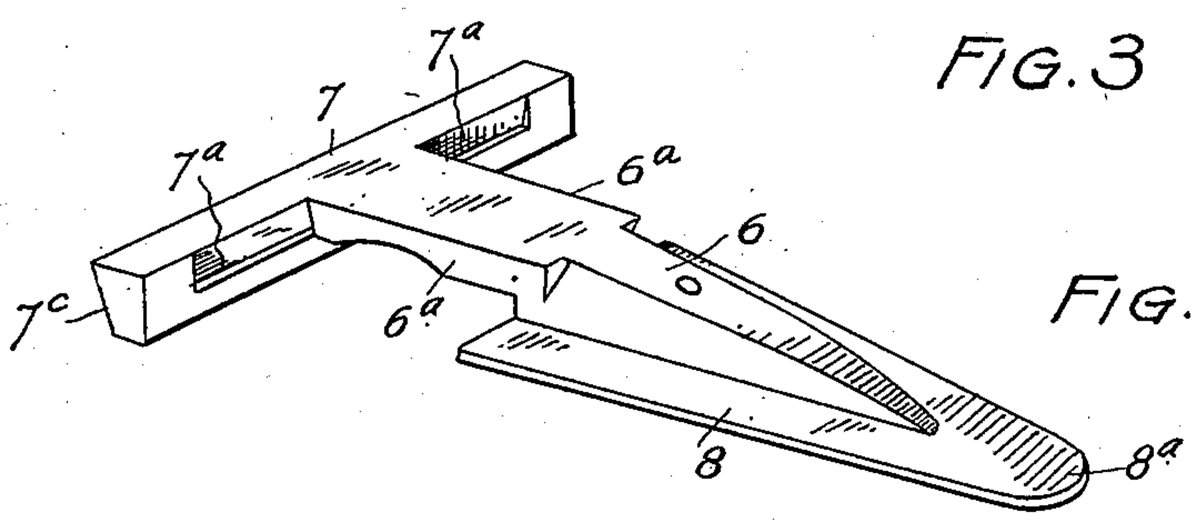

FIG. 4.

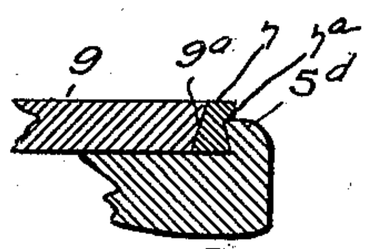

FIG. 5.

Witnesses
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UNITED STATES PATENT OFFICE.

JACOB C. SHANKS, OF DENVER, COLORADO.

GUARD-FINGER.

SPECIFICATION forming part of Letters Patent No. 623,112, dated April 11, 1899.

Application filed June 3, 1898. Serial No. 682,512. (No model.)

To all whom it may concern:

Be it known that I, JACOB C. SHANKS, a citizen of the United States of America, residing at Denver, in the county of Arapahoe and State of Colorado, have invented certain new and useful Improvements in Guard-Fingers; and I do 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in guard-fingers for mowing and reaping machines or harvesters; and it consists of the features hereinafter described and claimed, all of which will be fully understood by reference to the accompanying drawings, in which is illustrated an embodiment thereof.

In the drawings, Figure 1 is a top view of my improved guard-finger shown in connection with the finger-bar, which is broken away. Fig. 2 is a longitudinal section taken on the line *x x*, Fig. 1. Fig. 3 is a cross-section taken on the line *y y*, Fig. 1. Fig. 4 is a perspective view of my combined friction-bar and ledger-plate turned bottom side up for purposes of better illustration. Fig. 5 is a fragmentary section taken on the line *z z*, Fig. 1.

Similar reference characters indicating corresponding parts in the views, let the numeral 5 designate the body of the guard-finger, which is centrally grooved longitudinally to receive the forward extension-clip 6 of the transverse friction-bar 7. The groove in the guard-finger is undercut or dovetailed on opposite sides, as shown at 5^a, to receive the counterpart or correspondingly-shaped edges 6^a of the extension-clip 6. The ledger-plate 8 is secured to the clip 6 by a rivet or other suitable fastening means. Its forward extremity 8^a engages a recess 5^c in the forward portion of the guard-finger. On each side of the guard-finger is formed a lug 5^d, which is forwardly undercut or dovetailed to fit in the counterpart recess 7^a in the friction-bar 7. This friction-bar 7 is formed integral with the clip 6 and is engaged by the rear edge of the reciprocating cutter-bar. (Not shown.)

The dovetailed connection, heretofore explained, between the clip and friction-bar and the guard-finger locks the parts securely in place when they are assembled. The combined construction, comprising the ledger-plate, the friction-bar, and the connecting-clip, is inserted from the rear by shoving it forwardly into place in the finger-guard. The rear surface of the friction-bar is beveled, as shown at 7^c, being thickest at the bottom. The rear extremity 5^g of the guard-finger is attached to the guard-bar 9 by a bolt 10. This guard-bar is oppositely beveled, as shown at 9^a, to fit the rear edge of the friction-bar. Hence the guard-bar locks the friction-bar against upward or rearward movement.

The chief friction or wearing action of the cutter-bar is upon the friction-bar 7, which when worn out may be renewed at small expense by discarding either the friction-bar or ledger-plate, comprising all the wearing features of the finger-guard.

Having thus described my invention, what I claim is—

The combination with the guard-plate and the guard-finger attached thereto, the guard-finger being centrally grooved longitudinally, of the combined friction-bar 7 and ledger-plate 8 connected by the clip 6 which extends at right angles to the friction-bar and engages the central groove of the guard-finger, the clip being undercut or dovetailed on its opposite edges adjacent the friction-bar to engage counterpart grooves formed in the guard-finger, the friction-bar being provided with recesses 7^a formed on each side of the clip and adapted to engage counterpart lugs 5^d formed on the guard-finger, the rear edge of the friction-bar engaging the forward edge of the guard-plate.

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

JACOB C. SHANKS.

Witnesses:

A. J. O'BRIEN,

EDITH HIMSWORTH.