H. R. FULLER. Harvester Guard Finger.

No. 207,730.

Patented Sept. 3, 1878.

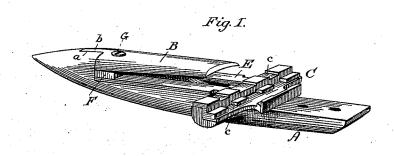


Fig. 2.

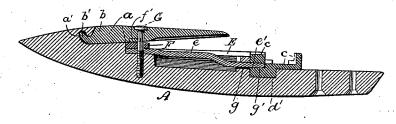
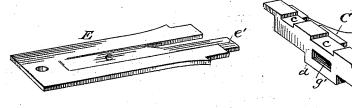


Fig. 3.



Frg. 5.



Fig.4.

Attest:

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UNITED STATES PATENT OFFICE.

HARVEY R. FULLER, OF PRINCETON, MISSOURI.

IMPROVEMENT IN HARVESTER GUARD-FINGERS.

Specification forming part of Letters Patent No. 207,730, dated September 3, 1878; application filed August 22, 1878.

To all whom it may concern:

Be it known that I, HARVEY RUSSELL FUL-LER, of Princeton, in the county of Mercer and State of Missouri, have invented certain new and useful Improvements in Guard-Fingers for Harvesters, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective of a guard-finger with my improvement attached. Fig. 2 is a longitudinal section of the same. Figs. 3, 4, and 5 are details to be referred to.

This invention relates to improvements in the class of guard-fingers for harvesters; and it consists in a novel construction of said guard-fingers, whereby I am enabled to replace any of the parts of the guard-fingers which are subjected to wear, and without removing the fingers from the cutter-bar.

It further consists in an adjustable instep for the guard-fingers, all as will be hereinafter fully described.

In the drawing, A represents the main portion of a guard-finger, which is provided, near the front end thereof, with a mortise, a, in which fits the tenon b of the movable and adjustable instep B of the guard-finger. The forward end of the tenon b is provided with a curved or hoop-shaped portion, b', which fits in a corresponding slot or hole, a', in the guard-finger, all as clearly shown in Fig. 2.

C represents a removable cross-plate to receive the friction from the sickle. This cross-plate is provided with a series of recesses, c, by which I am enabled to reduce the friction-surface of both the sickle-bar and sickle-knives. The cross-plate is also provided with a projection, d, on its under side, which fits into a mortise, d', in the guard-finger.

E represents a removable ledger-plate, which is provided with a depressed center, e, and an extension, e', which passes through a slot, g, in the guard-finger, into a slot, g', in the cross-plate C, by means of which the cross-plate and said ledger-plate are secured to the guard-finger. The object of the depressed center of the ledger-plate is also to reduce the friction of the sickle-knives playing over the same.

F represents a reversible spacing-block, lo-

cated between the forward end of the ledgerplate and the adjustable instep. Said spacing-block is provided with projections ff, which fit in mortises f' f' on the under side of the instep B, by which means I am enabled to adjust the opening between the instep and ledgerplate, and, by thus increasing or diminishing said opening, it is readily adapted to the cutting of the heavier or lighter cutting grasses, and avoids in a great measure the liability to choke.

G represents a screw-bolt passing down through the instep, spacing-block, and ledgerplate into the guard-finger, whereby they are all firmly secured to the main portion of said guard-finger.

By having the portions of the guard-finger which are subjected to wear removable, and which consist in the instep, ledger-plate, and cross-plate, they can be easily removed to be repaired or replaced by new ones without removing the guard-fingers from the cutter-bar, and also the ledger-plate easily and readily removed when required to be sharpened.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the main portion A of a guard-finger, of an adjustable instep, B, substantially as and for the purpose set forth.

2. The combination of the main portion A of a guard-finger, provided with the slots a a', and the removable instep B, provided with the tenon b and curved or hook-shaped portion b', substantially as and for the purpose set forth.

3. The combination, with the main portion A and instep B, of the reversible spacing-block F, substantially as and for the purpose specified.

4. The combination of the main portion A of the guard-finger, provided with the slot g, of the cross-plate C, provided with the slot g', and the removable ledger-plate E, provided with the extension e', substantially as and for the purpose set forth.

5. The combination of the removable instep B, spacing-block F, ledger-plate E, and crossplate C with the main portion A of a guard-

finger, substantially as and for the purpose specified.

6. The cross-plate C, provided with the series of recesses c, substantially as and for the purpose specified.

7. The removable instep B, provided with the recesses f'f', and the spacing-block F, the recesses f'f'