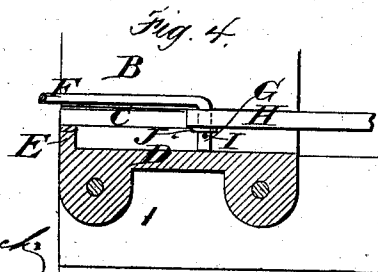
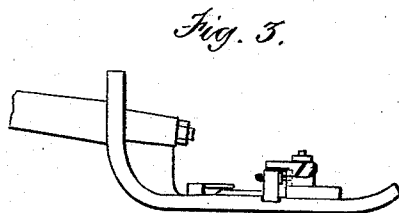
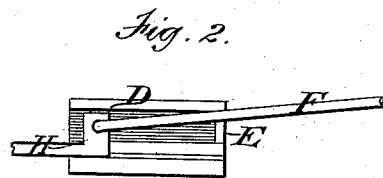
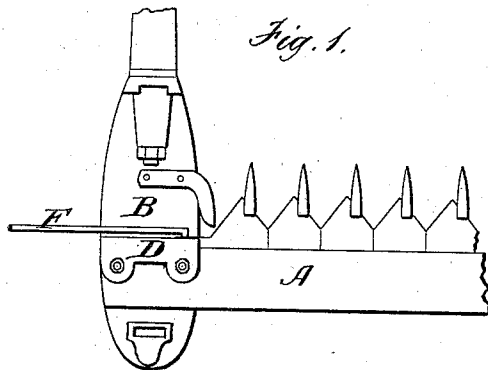


W. F. COCHRANE.

GUARD-PLATE FOR HARVESTER-CUTTERS.

No. 173,903.

Patented Feb. 22, 1876.



Witnesses.
C. F. Brown.
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Inventor.
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by his Atlys.
N. E. Wells

UNITED STATES PATENT OFFICE.

WILLIAM F. COCHRANE, OF LA FAYETTE, INDIANA.

IMPROVEMENT IN GUARD-PLATES FOR HARVESTER-CUTTERS.

Specification forming part of Letters Patent No. **173,903**, dated February 22, 1876; application filed April 20, 1874.

To all whom it may concern:

Be it known that I, WILLIAM F. COCHRANE, of La Fayette, in the county of Tippecanoe and State of Indiana, have invented a new and Improved Heel Guide and Pitman for Harvesters; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a top plan view of the inner end of the cutting mechanism, showing the pitman and heel-guide for the sickle, and Fig. 2 is a transverse section of the inner shoe in front of the sickle-heel. Fig. 3 is a side elevation of the drag-bar shoe, and Fig. 4 a horizontal section of the heel-guide.

Similar letters of reference in the accompanying drawings denote the same parts.

My invention has for its object to improve the means for preventing the sickle of a grain and grass harvester from dropping inward below the end of the inner shoe when the shoe and finger-bar are turned up for transportation. To this end, the invention consists in casting the heel-guide in one piece, with a returning shoulder or projection at its inner end, against which the pitman-hook of the sickle bears when the finger-bar is turned up, to prevent the sickle from dropping below the inner end of the guide and shoe.

In the accompanying drawings, A is the

finger-bar of a grain or grass harvester, secured to the inner shoe B and provided with the sickle, moving through the race C in the usual manner. D is the heel-guide, bolted upon the top of the shoe in rear of the sickle, and cast with a returning projection or shoulder, E, at its inner end. F is the sickle-pitman, having its hook G sufficiently long to extend through the heel H of the sickle and bear against the face of the heel-guide. The pitman is held within the heel by the pin I, and a washer, J, is employed to insure the bearing of the sickle hook against the heel-guide, so that, as the parts become worn, the washer may be renewed or replaced by others, to hold the hook up to the guide. By this construction the sickle is guided evenly and prevented from rocking within its groove.

When the finger-bar is turned up for transportation or other purposes, the pitman-hook rests upon the shoulder E of the heel-guide, and the sickle is prevented from dropping out of its race or below the end of the guide.

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

The heel-guide D, cast in one piece with the returning projection or shoulder E, substantially as described, for the purpose specified.

WM. F. COCHRANE.

Witnesses:

E. A. ELLSWORTH,
N. K. ELLSWORTH.