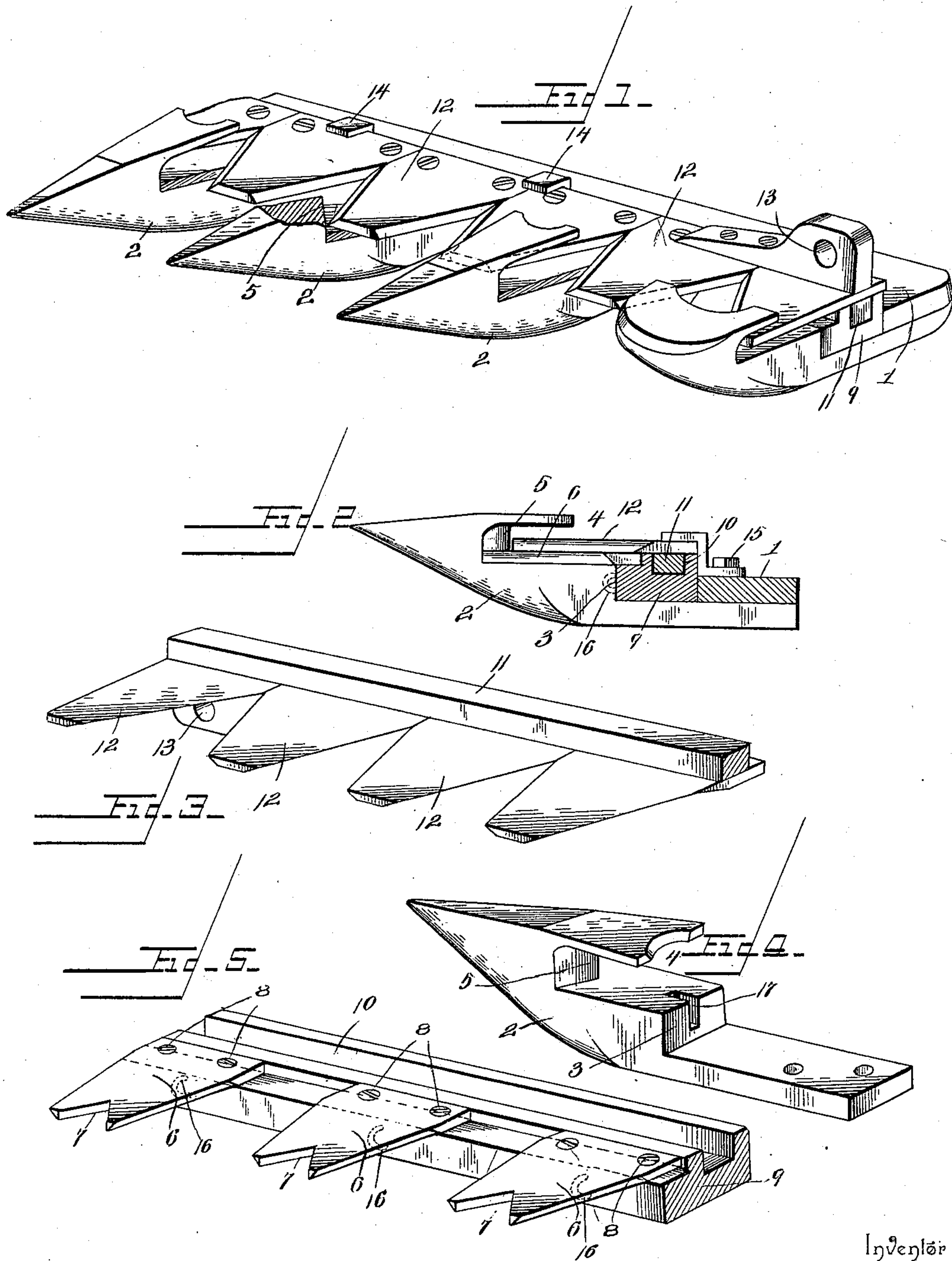


(No Model.)

D. A. GILLIOM.  
CUTTER BAR.

No. 544,728.

Patented Aug. 20, 1895.



Inventor

Daniel A. Gilliom.

Witnesses

Thos. W. Riley  
*[Signature]*

By his Attorneys.

*Ca Snow & Co.*



# UNITED STATES PATENT OFFICE.

DANIEL A. GILLIOM, OF BERNE, INDIANA.

## CUTTER-BAR.

SPECIFICATION forming part of Letters Patent No. 544,728, dated August 20, 1895.

Application filed October 30, 1894. Serial No. 527,443. (No model.)

*To all whom it may concern:*

Be it known that I, DANIEL A. GILLIOM, a citizen of the United States, residing at Berne, in the county of Adams and State of Indiana, have invented a new and useful Cutter-Bar, of which the following is a specification.

My invention relates to cutter-bars for mowing, reaping, and other harvesting machines, and has for its object to provide a simple and efficient construction whereby the sickle-bar proper is protected from wear; to provide means whereby the guard-plates which connect with the knives of the sickle-bar are removably attached to the finger-bar, whereby they may be readily detached for the purpose of sharpening, and, furthermore, to provide common means for securing the sickle-bar and the guard-plates in their operative positions.

Further objects and advantages of the invention will appear in the following description, and the novel features thereof will be more particularly pointed out in the claim.

In the drawings, Figure 1 is a perspective view of a cutter-bar embodying my invention. Fig. 2 is a transverse section of the same taken on a plane between two adjacent guard-fingers. Fig. 3 is a detail view in perspective of a portion of the sickle-bar and attached knives inverted. Fig. 4 is a detail view of one of the guard-fingers detached. Fig. 5 is a detail view in perspective of a portion of the guide-bar and attached guard-plates.

Similar numerals of reference indicate like parts in all the figures of the drawings.

1 designates a finger-bar, the front and rear edges of which are disposed at an angle and converge toward the outer end of the bar, and to the under side of this bar are attached the rear ends of the spaced guard-fingers 2, having shoulders 3 arranged in front of and spaced from the front edge of the bar. The front ends of the horizontal guide-openings 4 in the guard-fingers are closed by wedge-shaped shoulders 5, and the guard-plates 6, which are arranged horizontally upon the upper surfaces of the body portions of the guard-fingers, are provided at their front reduced ends with V-shaped notches 7 to engage the wedge-shaped shoulders at the front ends of the guide-openings 4. These guard-plates, which are reduced at their sides to cutting-

edges, are attached by means of bolts or similar fastening devices 8 to the guard-bar 9, which is fitted between the front edge of the finger-bar and the shoulders 3 of the guard-fingers, this space between said front edge of the finger-bar and the shoulders 3 forming a seat in which the guard-bar is removably fitted. The guard-bar is provided in its upper side with a guide channel or groove 10, in which is slidably fitted the sickle-bar 11, carrying the knives or cutters 12, which bear upon the upper surfaces of the guard-plates and have lateral cutting-edges to co-act with those of the guard-plates. Attached to one end of the sickle-bar is an eye 13 for connection with the means for operating said bar, and secured to the upper surface of the finger-bar, contiguous to the front edge thereof, are clips 14, which are bent forward at their upper ends to extend over the sickle-bar. These clips are removably attached to the finger-bar by means of screws or bolts 15, and they serve to hold the sickle-bar and the guard-bar in place.

From the above description it will be seen that the guard-plates are not attached to the guard-fingers, but are notched at their front ends to engage wedge-shaped shoulders near the front ends of said fingers, the rear ends of said plates being removably attached to a guard-bar which forms the guide and seat for the sickle-bar and is removably seated between the front edge of the finger-bar and contiguous shoulders on the guard-fingers. Therefore, by removing the clips, the sickle-bar and guard-bar, with its attached guard-plates, may be removed to provide for sharpening the knives and guard-plates. It will be seen, furthermore, that when the guard-plates become worn to such an extent as to render them useless they may be replaced without replacing the guard-bar, and that in use the sickle-bar is protected from wear by the guard-bar and therefore only the knives come in contact with the grain or other material which is being harvested.

In addition to the above-described means for holding the guide-bar from movement with the cutter-bar, I employ projections 16 on the front side thereof to engage notches 17 in the shoulders 3 of the guard-fingers.

It will be understood that in practice vari-



ous changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described my invention, what I claim is—

The combination with a finger-bar, of guard-fingers having transverse shoulders notched, as at 17, and spaced from the front edge of the bar, a guide-bar arranged between said shoulders and the front edge of the finger-bar and provided in its upper side with a continuous groove, projections carried by the guide-bar engaging said notches in the shoulders of

the guard-fingers, guard-plates attached to the guide-bar and provided at their front ends with notches to engage shoulders on the guard-fingers, a cutter bar seated to slide in the groove of the guide-bar, and clips for temporarily securing the cutter bar in the groove, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

DANIEL A. GILLIOM.

Witnesses:

LEVI AUGSBURGER,  
J. F. LEHMAN.