

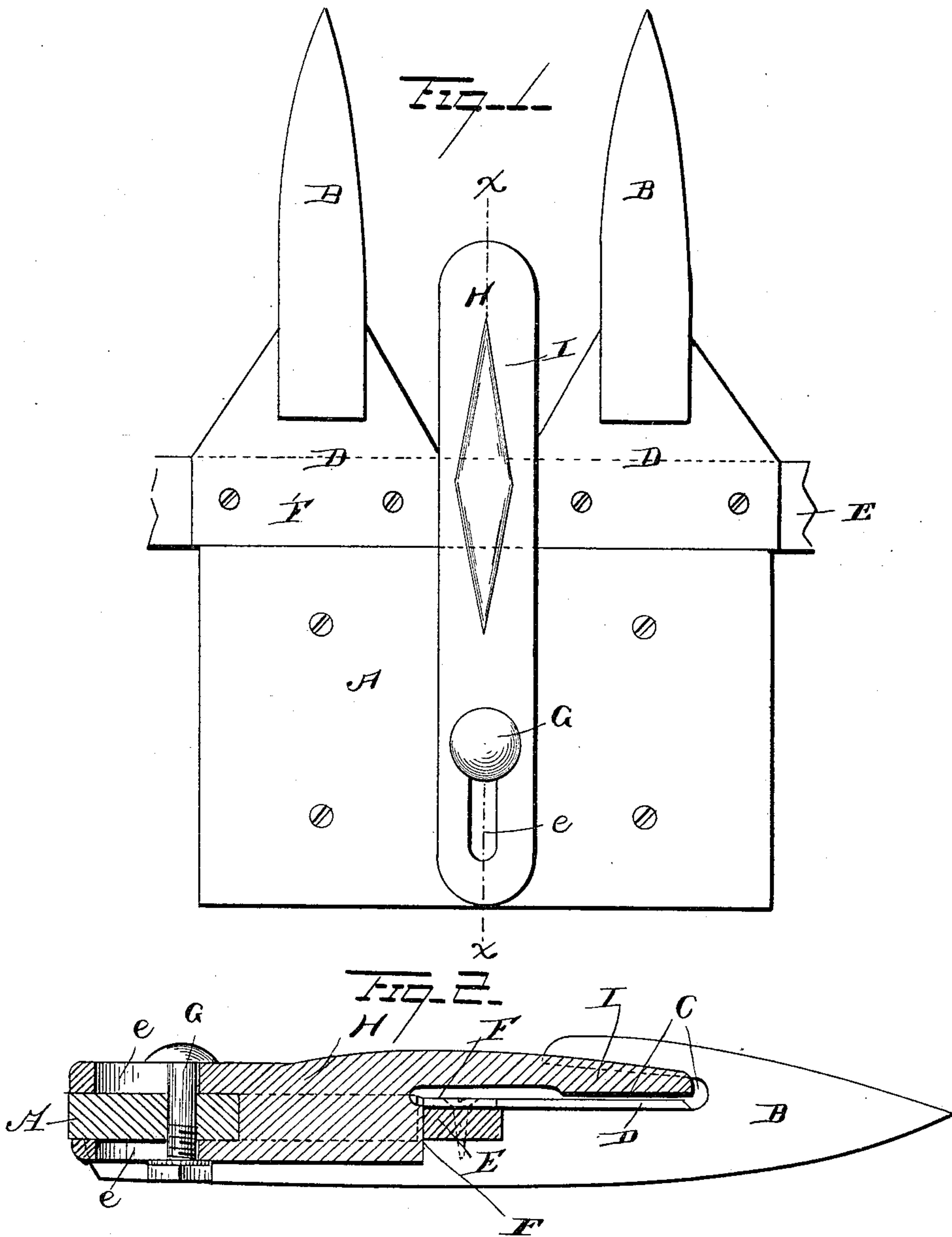
(No Model.)

J. CRIST.

CUTTING APPARATUS FOR HARVESTERS.

No. 362,821.

Patented May 10, 1887.



Witnesses

*Wm. T. Gile*

*E. L. Siggers*

Inventor

*John Crist*

By his Attorneys

*C. A. Snow & Co.*

# UNITED STATES PATENT OFFICE.

JOHN CRIST, OF BROWNING, MISSOURI, ASSIGNOR OF ONE-HALF TO JONAH S. ALEXANDER, OF SAME PLACE.

## CUTTING APPARATUS FOR HARVESTERS.

SPECIFICATION forming part of Letters Patent No. 362,821, dated May 10, 1887.

Application filed May 8, 1886. Serial No. 201,581. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN CRIST, a citizen of the United States, residing at Browning, in the county of Linn and State of Missouri, have invented a new and useful Improvement in Cutting Apparatus for Harvesters, of which the following is a specification.

My invention relates to an improvement in cutting apparatus for harvesters; and it consists in the peculiar construction and combination of devices that will be more fully set forth hereinafter, and particularly pointed out in the claims.

In the drawings, Figure 1 is a plan view of a portion of the cutting apparatus of a harvester provided with my improvements. Fig. 2 is a sectional view of the same, taken on the line *xx* of Fig. 1.

The action and the strain on the cutter-bar when the machine is in use cause a backward and downward wear at the rear portion, and, as a consequence, the cutter-bar and its sections tend to assume an inclined position, throwing the points of the sections or teeth up from the opposing sides of the fingers, so as to destroy their shearing contact and allowing them to wear into the upper guards of the fingers, thereby greatly impairing the efficiency and durability of the machine.

The object of my invention is to obviate this defect, and provide an efficient means for maintaining the cutter-bar in proper relation to the cutter head and fingers. This object I attain by combining with the cutter-bar and finger-bar a bearing-arm, which is adapted to press downward on the upperside of the cutter-bar, and is movable longitudinally across the face of the finger-bar, as herein shown and described.

A represents the finger-bar, which is provided with the usual fingers, B, having the slots C cut in their forward ends to receive the teeth or sections D of the cutter-bar E. The reciprocating motion of the said bar causes it to wear at its rear and lower edges, thereby giving it a tendency to assume an inclined position, as before described. To prevent this, I provide a longitudinally-movable arm, H, which has its rear end bifurcated or slotted, so as to fit against the upper and

lower sides of the finger-bar, and to form a bearing, F, at the front edge of the cutter-head. The rear portion of the arm H is provided with longitudinal slots *e*, through which passes a vertical transverse bolt, G, which passes through the finger-bar and secures the adjustable arm thereon, thus permitting the latter to be adjusted and securely located at any desired adjustment. The arm H is provided on its upper side with a forwardly-extending finger, I, which bears against the upper side of the cutting teeth or sections of the cutter-bar, so as to prevent the latter from inclining when the rear edge of the cutter-bar becomes worn. It is essential to insure the perfect operation of the cutting apparatus that the points of the teeth extend nearly to the front ends of the slots in the fingers B. Therefore, as the said cutting-teeth wear away and become thereby shortened, I move the cutter-bar forward from the finger-bar a suitable distance by adjusting the arm H, as will be very readily understood.

Having thus described my invention, I claim—

1. The combination, with the finger-bar and the cutter-bar, of the arm H, having the bifurcated rear portions bearing on the upper and lower sides of the finger-bar, and provided with the longitudinal slots *e*, the forwardly-extending finger I, bearing on the upper side of the cutter-bar, and the bolt G, passing through the slots *e* and the finger-bar, for securing the arm H on the finger-bar at any desired adjustment, substantially as described.

2. In the cutting apparatus of a harvester, the combination of the finger-bar, the cutter-bar, and the longitudinally-movable arm H, secured to the finger-bar, having the forwardly-extending finger I, bearing on the upper side of the cutting-teeth, and the bearing or shoulder F, fitting against the rear side of the cutter-bar, substantially as described.

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

JOHN CRIST.

Witnesses:

F. E. STONE,  
L. E. CARTER.