2 Sheets—Sheet 1.

W. F. COCHRANE.

HARVESTER.

No. 172,261. Patented Jan. 18, 1876.

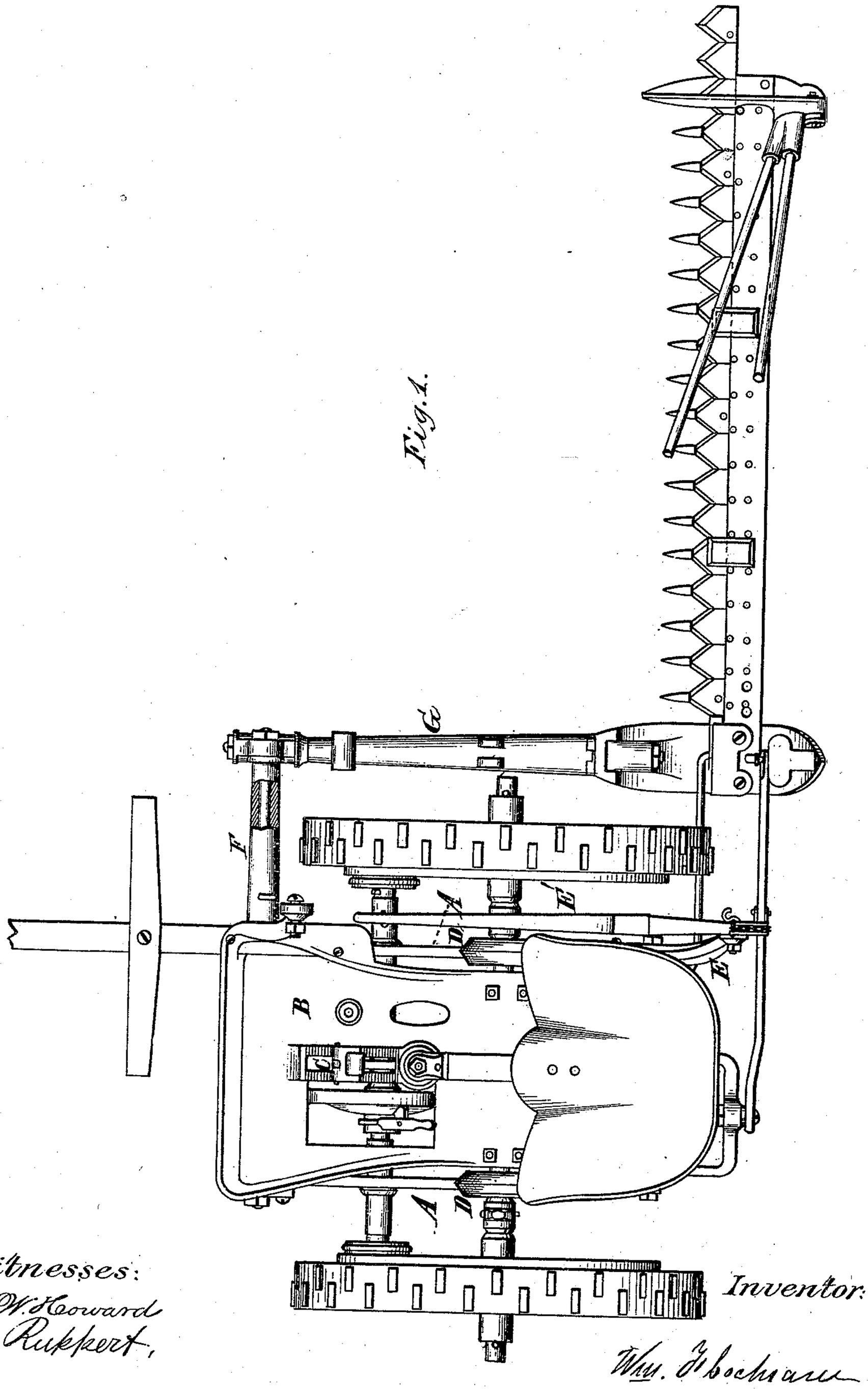

Fig. 1.

Witnesses:
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Inventor:
Wm. F. Cochrane

2 Sheets—Sheet 2.

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Fig. 2.

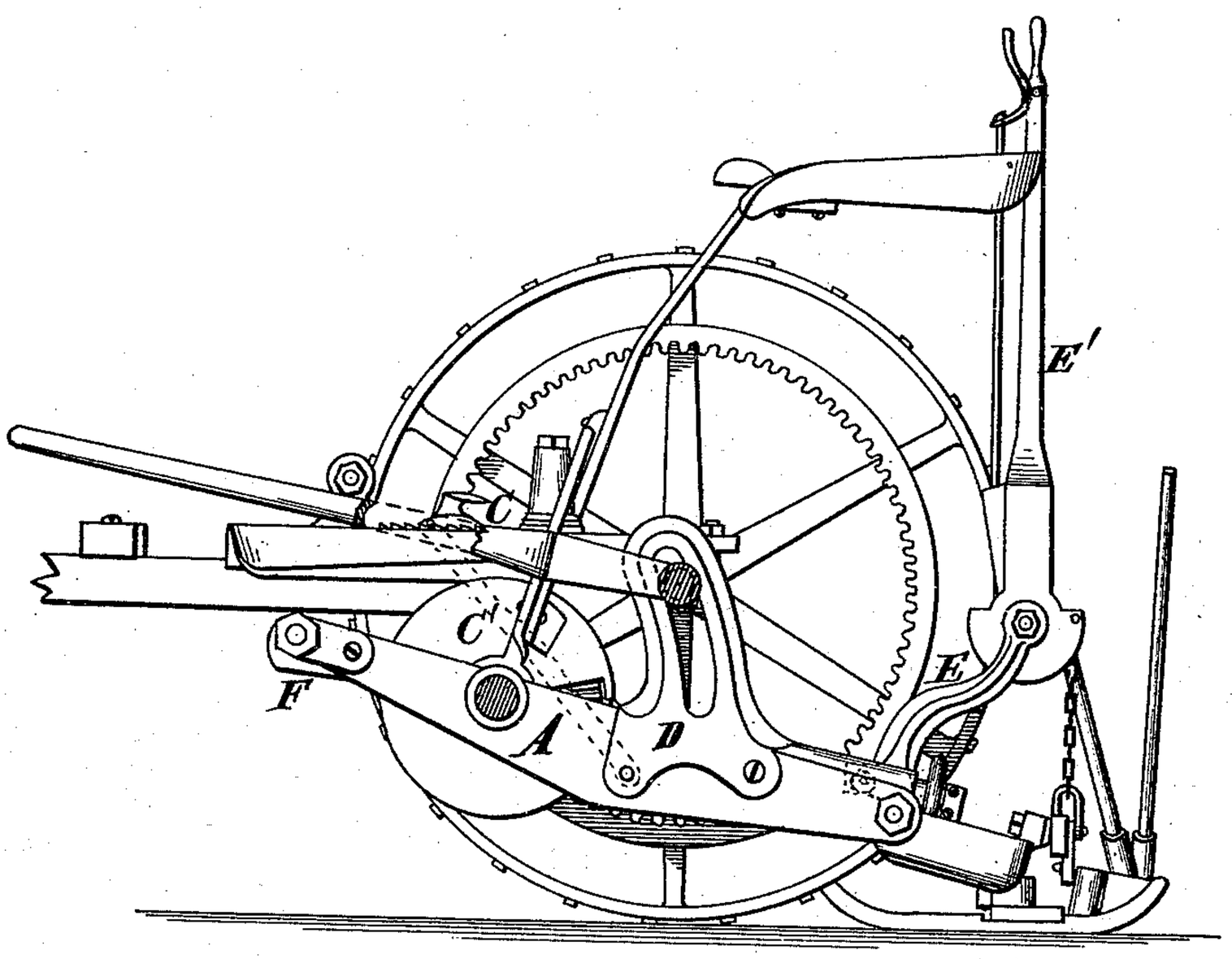
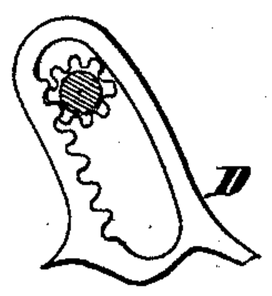


Fig. 3.



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UNITED STATES PATENT OFFICE.

WILLIAM F. COCHRANE, OF LAFAYETTE, INDIANA.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. **172,261**, dated January 18, 1876; application filed September 15, 1875.

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 new and useful Improvements in Harvesters, of which the following is a specification:

In the annexed drawings, making a part of this specification, Figure 1 is a plan view. Fig. 2 is a sectional elevation, and Fig. 3 is an elevation of the segmental slotted bracket.

The same letters are employed in all the drawings in the designation of identical parts.

On the 7th day of April, A. D. 1874, I took out Letters Patent of the United States, No. 149,444, covering the combination of a main frame, foot-board or tongue, bracket, and traction-latch, and since that date have taken out numerous patents for improvements on that machine. In these patents the main frame was represented as made in one piece with the segmental slotted bracket and arm, which formed the fulcrum of the lever which lifts the inner end of the cutter-bar, represented in the annexed drawings, respectively, by the letters D, E, and E′.

My present improvements consist in modifications in the construction of the component parts of the main frame by which I am enabled to make the sides of the main frame of flat pieces of wrought-iron or steel, thereby diminishing the weight while I maintain or increase the strength, and at the same time provide for the cheap renewal of the parts most liable to break, instead of requiring the renewal of an entire side of the main frame, as heretofore.

In the annexed drawings, making part of this specification, A is the main frame, and B the foot-board or tongue-bracket, connected with the main frame by the traction-latch and rod C C′. Instead of making the side pieces of cast-iron, as heretofore, I make them of flat pieces of wrought-iron or steel, having holes bored at proper points to receive the bolts by which the segmental slotted brackets D D and arm E, which are now cast independently, are attached. There are also holes bored to receive the tubular sleeves of the transverse shaft, which have heretofore passed through eyes in lugs on the top of side pieces of the frame.

In the machines heretofore constructed the front cross-girder, which formed the front end of the frame, and also, by its extension, a bracket for supporting the front end of the drag-bar, were made of wrought-iron, and liable to be bent by the strain upon it. To stiffen, and at the same time cheapen its construction, I prefer to cast this part F, and make it tubular, and attach to it lugs to receive bolts, by which it can be fastened to the ends of the wrought-iron side pieces. I also make it taper from the side of the frame A to the end, where it supports the drag-bar G, and through the hollow center I pass a wrought-iron rod to strengthen the piece.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a harvester, substantially such as described, the side pieces of the main frame constructed of flat pieces of wrought-iron or steel, and combined with the segmental slotted brackets D D, and arm E, cast independently, and bolted thereto, substantially as set forth.

2. In combination with the side pieces of the frame A and drag-bar G, the tubular tapered girder F, strengthened by an internal wrought-iron rod, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WM. F. COCHRANE.

Witnesses:

D. P. HOLLOWAY,

ALONZO HUGHES.