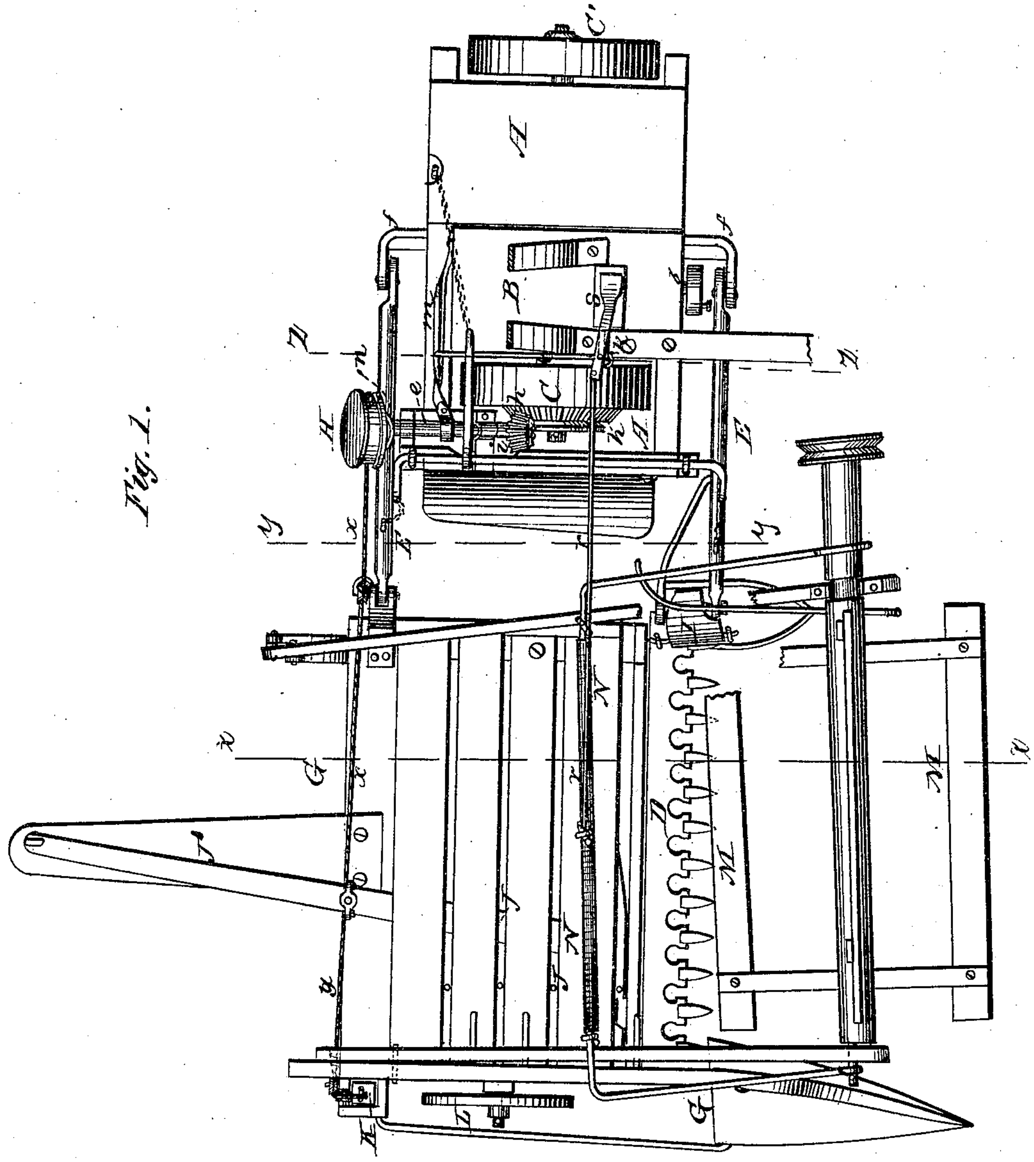
A. J. COOK.

REAPERS AND MOWERS.

No. 180,004. Patented July 18, 1876.



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3 Sheets—Sheet 2.

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Fig. 2.

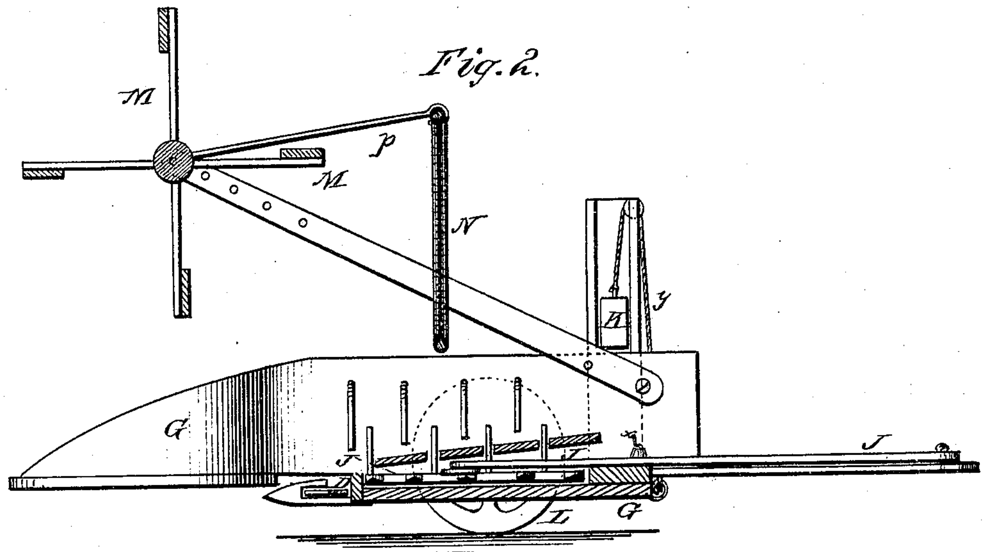


Fig. 3.

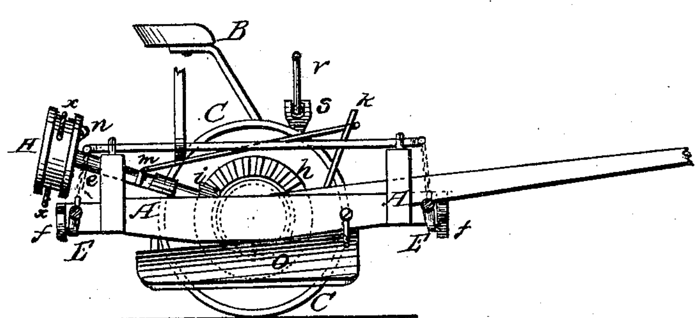
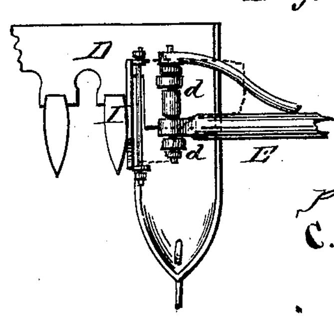


Fig. 6.



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3 Sheets—Sheet 3.

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Fig. 4.

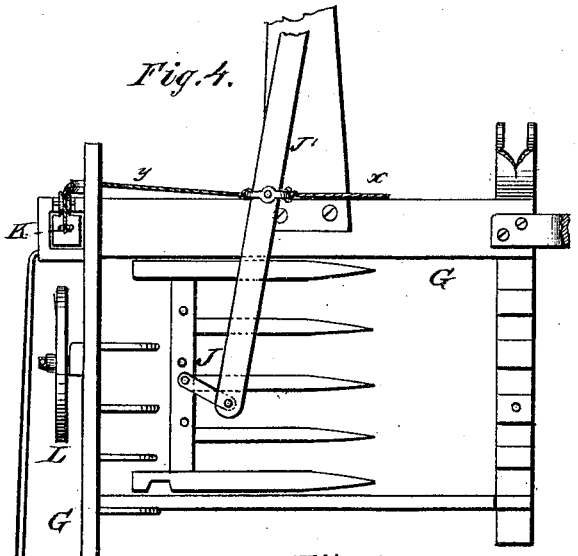


Fig. 5.

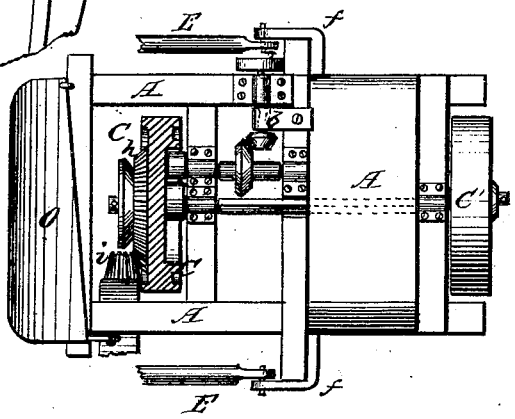
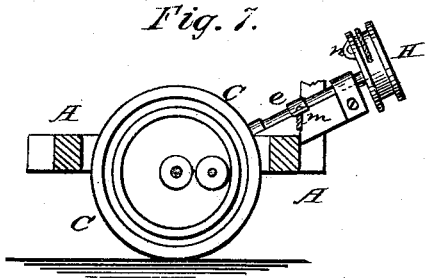


Fig. 7.



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UNITED STATES PATENT OFFICE.

ANDREW J. COOK, OF WICHITA, KANSAS.

IMPROVEMENT IN REAPERS AND MOWERS.

Specification forming part of Letters Patent No. **180,004**, dated July 18, 1876; application filed October 16, 1875.

To all whom it may concern:

Be it known that I, ANDREW J. COOK, of Wichita, in the county of Sedgwick and State of Kansas, have invented certain new and useful Improvements in Reapers and Mowers; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The nature of my invention consists in the construction and arrangement of a reaper and mower, as will be hereinafter more fully set forth.

In the annexed drawings, Figure 1 is a plan view. Fig. 2 is a section on line *x x*. Fig. 3 is a section on line *y y*. Fig. 4 is a plan view of the rake. Fig. 5 is a bottom-side-up view of the main frame A. Fig. 6 is a detail view of the hinged cap I. Fig. 7 is a detail view.

A represents the main frame supporting the driver's seat B, and supported upon two driving-wheels, C C′, attached to the axle *a*. The wheel C has on its inner side suitable gearing to be connected with and rotate the crank-shaft *b*, by which the sickle-bar is operated, it being connected thereto by a pitman in the usual manner. On the front and rear of the frame A are projecting irons *f f*, to which are pivoted rods or bars E E, the pivot-points of said rods to the irons being on a direct line with the crank-shaft *b;* and as the platform G and finger-bar D are hinged to the outer ends of said rods or bars, it will be seen that the platform and cutter-bar may be adjusted in any position required without interfering with the motion of the sickle-bar.

The front arm or bar E is forked at its outer end, and upon the rod which pivots it to the finger-bar are placed anti-friction rollers *d d* above the finger-bar D at the connection of the sickle and the pitman, this joint being protected by a hinged cap, I, to prevent the grain from interfering therewith, and to protect it from dirt.

On the outer side of the driving-wheel C is a bevel cog-wheel, *h*, into which is to mesh a bevel-pinion, *i*, on the front end of a shaft, *e*, which is movable in its bearings, and has upon its rear end a drum, H. To this drum is attached a cord, *x*, which connects it with the pivoted rake J in the platform G. In front of the seat B is a treadle, *k*, connected with a lever, *m*, through which the shaft *e* passes.

The rake J throws the grain off in square and compact form at the side of the frame A. The rake slides forward and discharges at the will of the operator. He sets his foot on the treadle *k*, and, by pressing thereon, the spring-lever *m* moves the shaft *e* forward till the pinion *i* gears with the cog-wheel *h*, whereby the drum H winds the cord *x*, and draws the rake across. At the instant the gavel is discharged the gear-shaft *e* is crowded back by a cam, *n*, on the inner end of the drum, thereby throwing it out of gear; and the instant it is out of gear the rake is thrown back to the back end of the platform by a weight, K, in the rear of the grain-wheel L, there being a cord, *y*, attaching said weight to the arm of the rake. M represents the ordinary reel, on the shaft of which is, by rods *p p*, suspended the cut-off N. This cut-off is by a jointed rod, *r*, connected to a treadle, *s*, in front of the driver's seat. The driver sits on the seat B, with one foot resting on the treadle *s* until a sufficient quantity has accumulated for a bundle, the cut-off being elevated as long as he presses on said treadle. Then, as he raises his foot to put it on the treadle *k*, to put the rake in gear, the cut-off drops down and holds the falling grain until the rake has thrown off the gavel and is moved back to its place at the grain end of the platform. At the side of the main or gear frame A is hinged a shield, O, to prevent the grain from being thrown into the gearing.

The rake J is attached to a lever, J′, pivoted at its rear end, as shown, and the teeth of the rake projecting up between the slats of the platform. The platform can be raised at one end, and the pivoting-screw of the lever J′ taken out, when the rake can be removed for repairs or other purposes, if desired.

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

1. The combination, with the rake J, of the

gears *h i*, shaft *e*, lever *m*, treadle *k*, drum H, with cam *n*, cords *x y*, and weight K, all constructed and arranged to operate substantially as and for the purposes herein set forth.

2. The combination of the cut-off N, suspending-rods *p p*, rod *r*, and treadle *s*, substantially as and for the purposes herein set forth.

3. The shield O hinged to the gear-frame A, for the purposes herein set forth.

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

ANDREW J. COOK.

Witnesses:
E. M. STEPHENS,
D. A. MITCHELL.