

G. W. N. Yost.

Harvester.

N^o 78708

Patented Jun. 9, 1868.

Fig. 1.

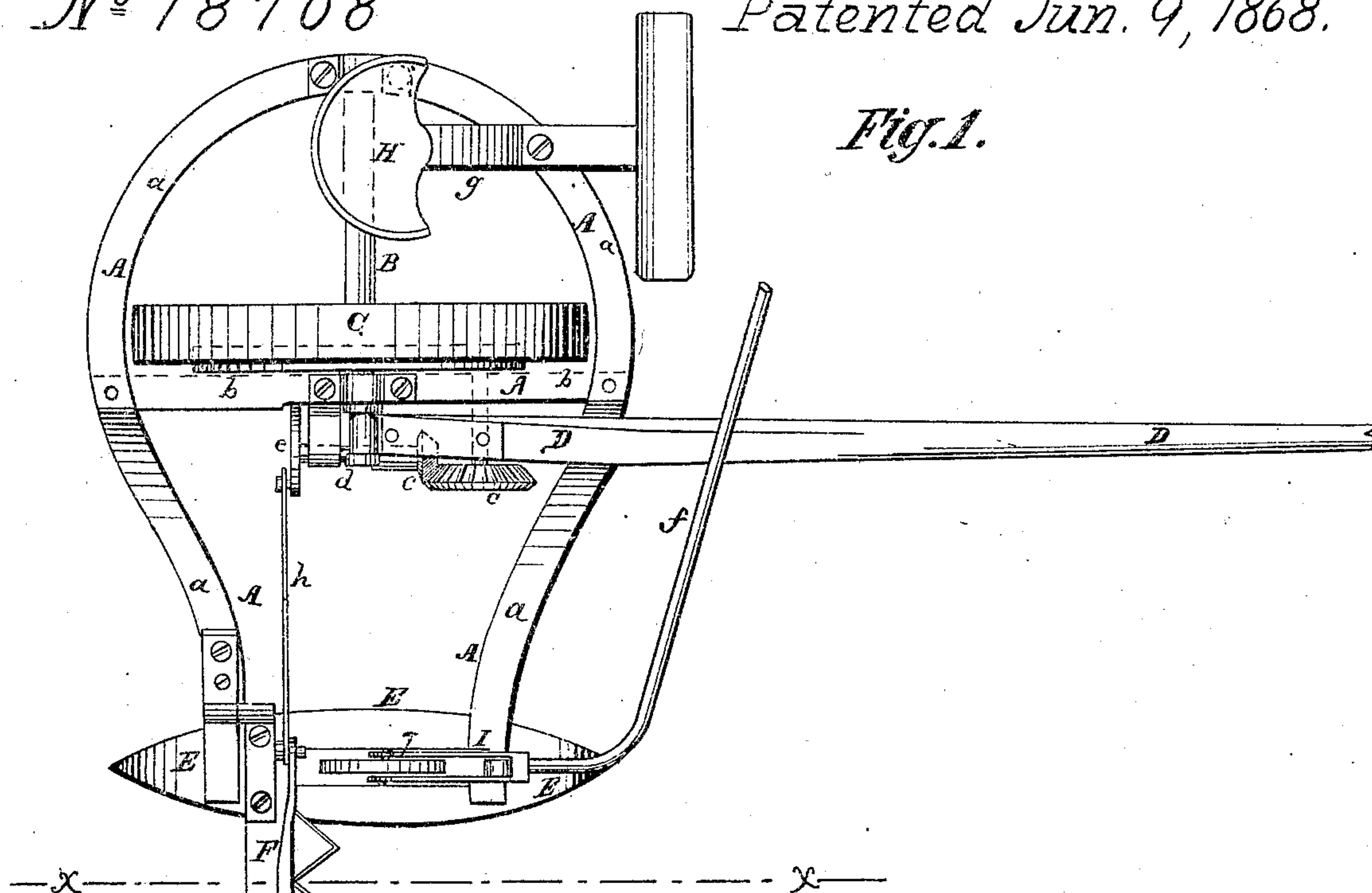
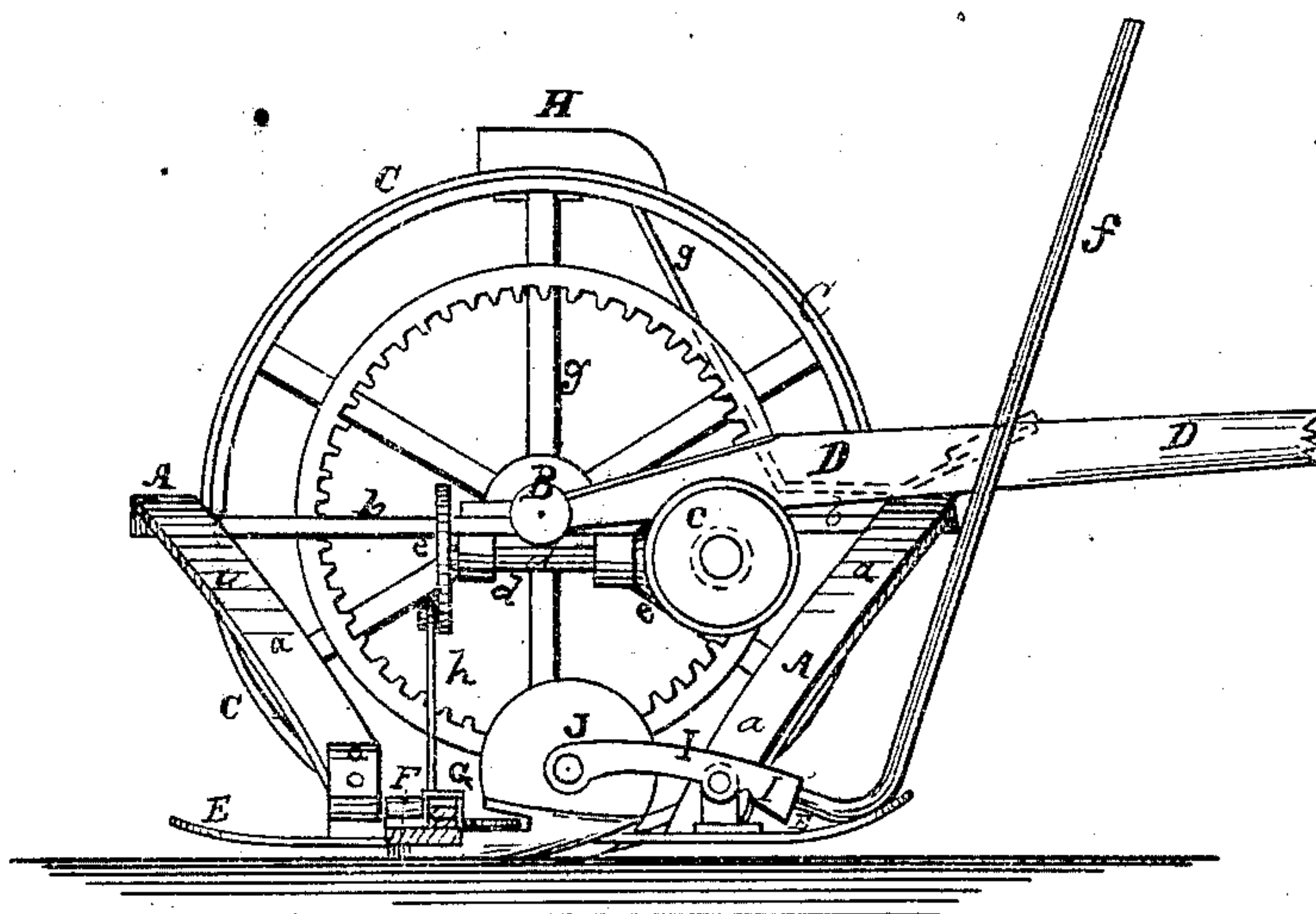


Fig. 2.



Witnesses.

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United States Patent Office.

G. W. N. YOST, OF CORRY, PENNSYLVANIA, ASSIGNOR TO CORRY MACHINE COMPANY, OF SAME PLACE.

Letters Patent No. 78,708, dated June 9, 1868.

IMPROVEMENT IN HARVESTERS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, G. W. N. Yost, of Corry, in the county of Erie, and State of Pennsylvania, have invented a new and improved Mowing-Machine; 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 make and use the same, reference being had to the accompanying drawings forming a part of this specification, in which—

Figure 1 represents a plan or top view of my invention.

Figure 2 is a side elevation, partly in section, of the same, the plane of section being indicated by the line *x x*, fig. 1.

Similar letters of reference indicate corresponding parts.

This invention relates to a new mowing-machine, which is constructed with a view to simplicity, compactness, and cheapness.

The invention consists, first, in the manner of arranging the frame of the machine. The same is composed of a horse-shoe-shaped metal bar or plate, to the two ends of which the shoe at the inner end of the finger-bar is secured. The main body of the frame is about on a level with the driving-shaft of the machine, while its two ends are bent down to reach to the shoe, and to be hinged to the finger-bar. The axis of the horse-shoe is at right angles to the pole of the machine, and parallel with the finger-bar. Across the two arms of the horse-shoe bar is laid a straight bar, the same being secured to the higher part of the frame. The main shaft of the machine has its bearings in the said straight bar, and in the centre of the horse-shoe bar, and the driving-wheel is mounted on this shaft, only one wheel being used. The driver's seat is secured to the frame on that side of the pole which is opposite to that to which the finger-bar is secured, and the weight of the driver thus balances that of the finger and cutting-bar. The driving-wheel is, by suitable gearing, connected with the pitman that gives motion to the cutter-bar.

The invention consists, second, in a device for raising the finger-bar and its appendages over obstructions, said device being composed of a caster-wheel, hung in the end of a bar which is pivoted to the front part of the shoe. The wheel fits through a slot in the shoe, and rests upon the ground. The bar to which it is secured is connected with a lever, which is within easy reach of the driver, and thus, when the driver desires to raise the cutters over obstructions of any kind, he depresses the end of this lever, thereby, the caster-wheel being the fulcrum, he raises the point at which the bar carrying the caster-wheel is pivoted to the shoe, and consequently the whole shoe, and the finger-bar, and, as the shoe is secured to the lower part of the frame, he also raises the lower part of the frame, bringing the whole frame into an inclined position. As soon as the lever is again released, the weight of the driver and of the whole machine tends to depress the machine, and to return it to its original position.

A represents the frame of my improved mowing-machine. The same consists of two pieces, *a* and *b*. The piece *a* is a metal bar, shaped somewhat like a horse-shoe, with the ends bent down, and the upper part at a level. The piece *b* is a straight metal or other bar, laid across the two arms of the horse-shoe, at the upper portion of the same, as shown.

B is the main shaft of the machine, having its bearings in the bars *a* and *b*, as shown.

C is the main driving-wheel of the machine, mounted on the shaft, as shown.

D is the pole, secured to the frame, so as to be parallel with the bar *b* of the same.

To the lower ends of the bar *a* is secured a shoe, E, and to the rear end of the bar *a* is hinged the finger-bar F, of suitable construction, carrying a suitable cutter-bar, G, as shown.

By means of suitable gear-wheels, *c c*, or other equivalent devices, motion is imparted from the driving-shaft B to an axle, *d*, to which the pitman-wheel *e* is secured, the rod *h* connecting the wheel *e* with the cutter-bar G, and imparting motion to the latter.

H is the driver's seat, secured upon a standard or standards, *g*, projecting from the rounded part of the horse-shoe bar *a*, so as to be opposite to the finger-bar, as shown.

I is a bar, pivoted to the front part of the shoe E, at or near the junction of the same with the front arm of *a*. The rear end of the bar I carries a caster-wheel, J, which fits through a slot in the shoe E, and which rests upon the ground, as shown in fig. 2. The front end of the bar I is connected with a lever, *f*, which is within reach of the driver when the same is on the seat H, as shown.

By pulling the end of the lever *f* towards the seat, the front end of the bar I will be raised, thereby raising the shoe E, and the finger-bar and its appendages, the slot in the shoe E allowing it to be raised, while the wheel J remains on the ground, and supports the whole lower part of the machine. Thus the finger-bar can be easily raised over obstructions wherever desired.

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

1. The frame A of a mowing-machine, when constructed of a single bar, *a*, approximating in form to a horse-shoe, and a transverse strengthening-bar, *b*, when the extremities of the bar *a* are bent down for the attachment of the shoe E, and finger-bar, substantially as herein shown and described.

2. In combination with the above, I claim the main wheel C, when arranged between the driver's seat and the transverse bar *b*, substantially as and for the purpose set forth.

3. The wheel J, on the hinged bar I, in combination with the slotted shoe E, and with the lever *f*, all made and operating so that the finger-bar can be easily raised by means of the lever *f*, as set forth.

G. W. N. YOST.

Witnesses:

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H. N. TAFT.