J. Mitchell,
Mower.

No 20813

Patented July 6. 1858

Fig 3.

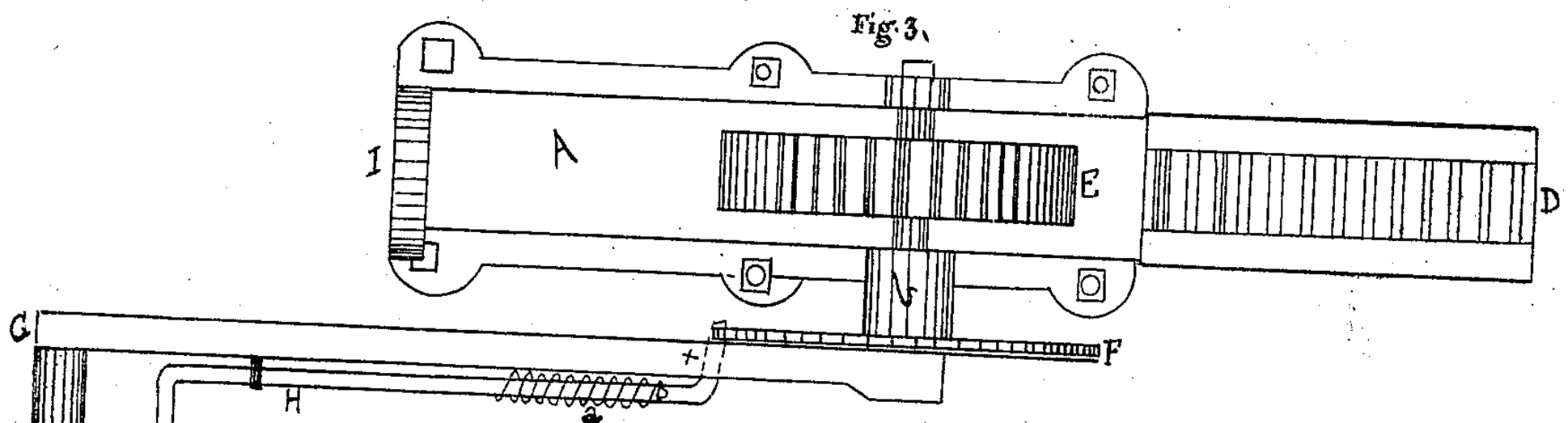


Fig 2.

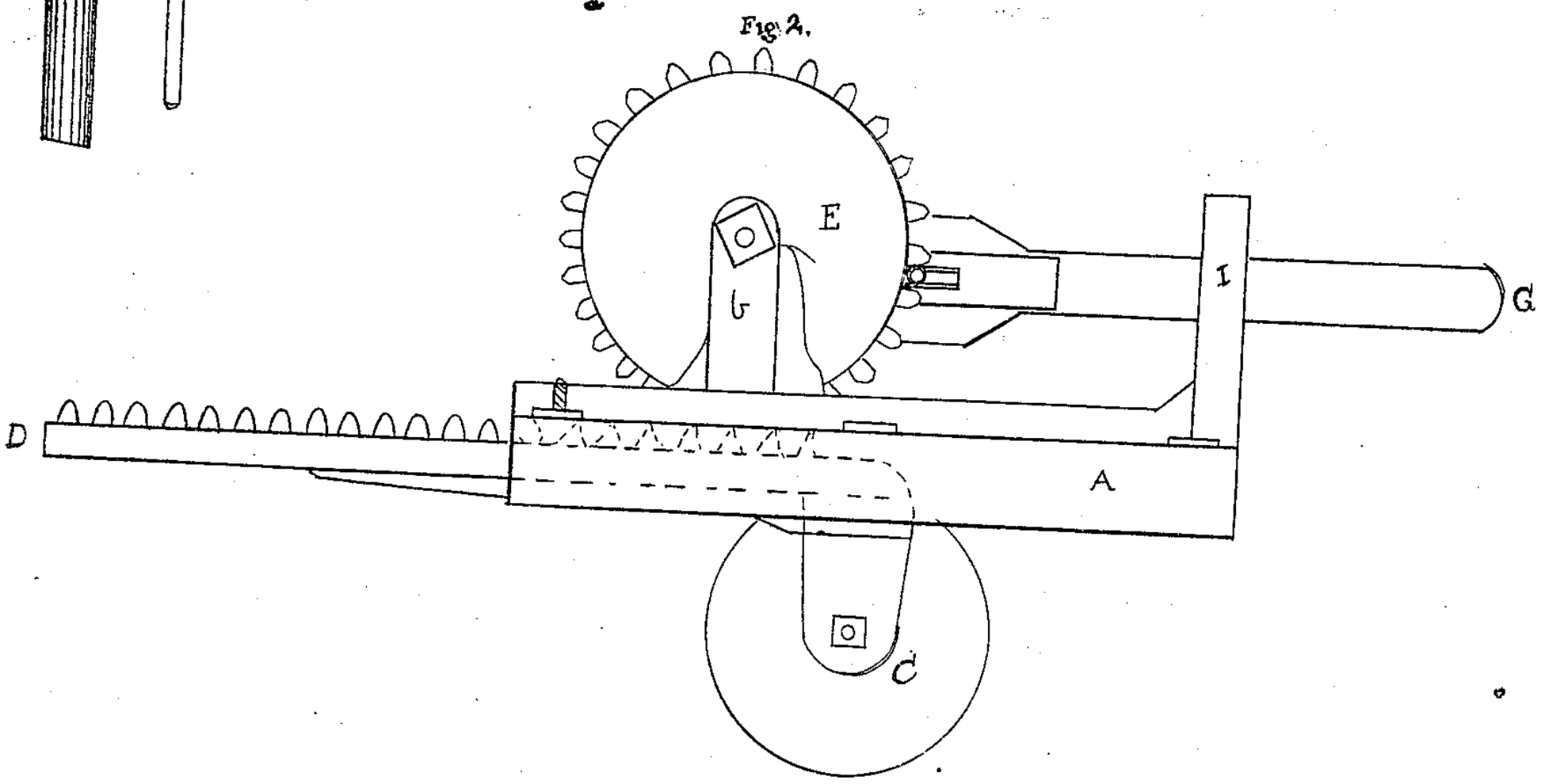
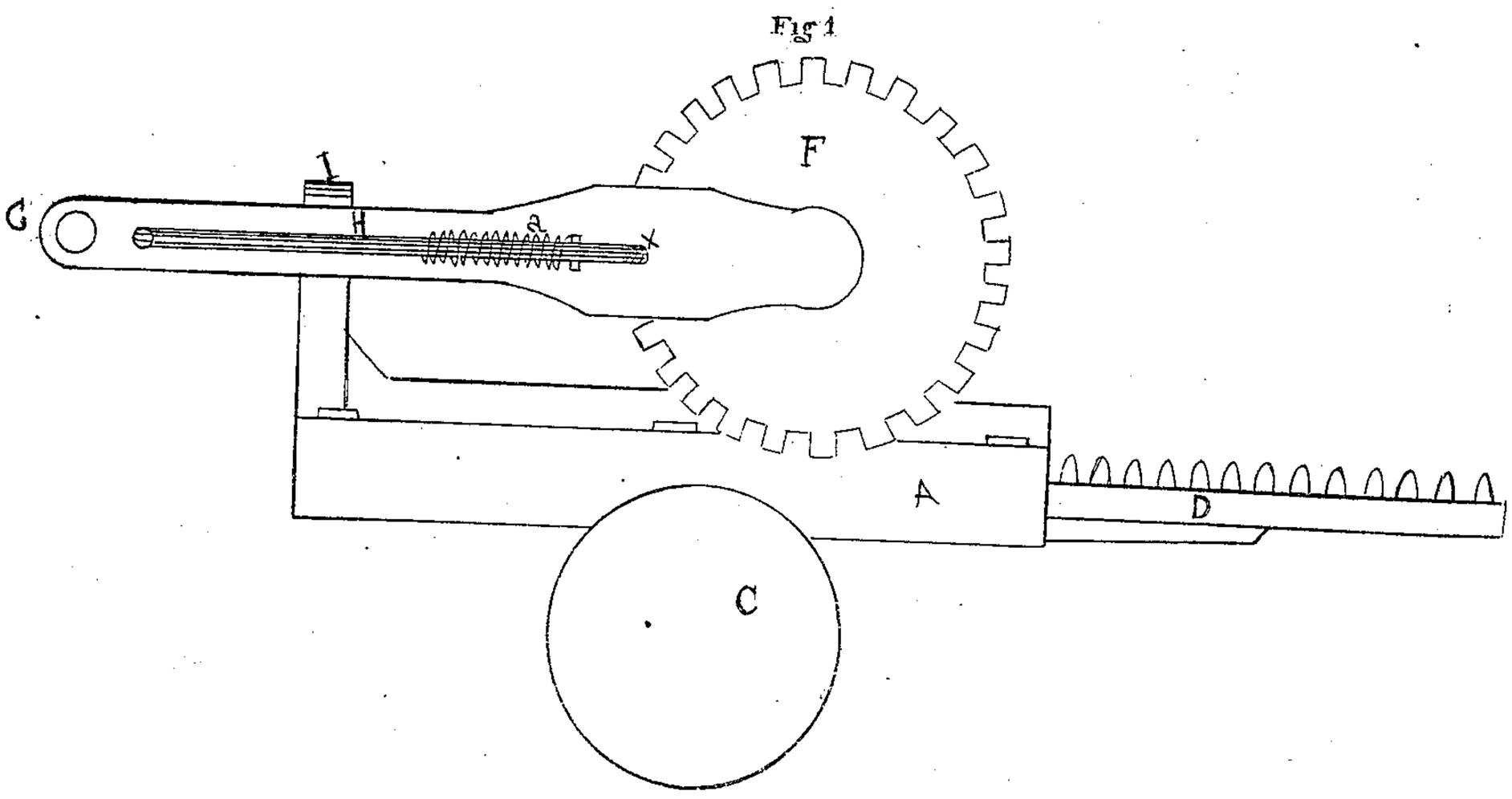


Fig 1



UNITED STATES PATENT OFFICE.

JEREMIAH MITCHELL, OF GOSPORT, NEW YORK.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. **20,813**, dated July 6, 1858.

To all whom it may concern:

Be it known that I, JEREMIAH MITCHELL, of Gosport, Niagara county, New York, have invented certain new and useful Improvements in Harvesters; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in the arrangement of the devices hereinafter mentioned for making a tilting jack, to be attached to the cutter-bar of reaping-machines for the purpose of regulating the cut, as will be described.

In order that those skilled in the arts may construct and use my invention, I will proceed to describe its construction and operation.

In the accompanying drawings it will be seen that A represents the body or frame of the jack.

C is the wheel which supports the machine.

D is a rack-bar, one end of which is secured to the wheel C, as seen in Figure 2 in dotted line. Said rack-bar slides horizontally and works in a T-shaped groove in the frame A.

E is a pinion having its bearing in the upright pieces, *b b*. Said pinion works in the rack-bar D, and operates it, either lowering or elevating it, as desired.

F is a stationary circular catch-plate secured firmly to one of the uprights in which the pinion E has its bearings, the shaft of pinion E passing through its center.

G is the handle of the jack employed to elevate or depress the cutters, being secured to the shaft of pinion E and working close by the side of the catch-plate F.

H is a chuck-bar, being in the form seen in Fig. 3. The chuck on the lower extremity of the bar H passes through the lever or handle G, and works in a slot in handle G and between the square cogs on the catch-plate F, by this means securing the handle, and consequently the pinion E and rack-bar D, at any desired point.

I is a projection or flange by means of which the jack is secured to the reaper. *a* is a spring upon the chuck-bar H, one end of the spring being secured to the handle and the other, operating against a pin in the chuck-bar, keeps it down to its place.

In the operation of this invention the jack is secured to the cutter-bar of any reaper by means of screws or pins, which pass through the flange marked I and into the cutter-bar. The wheel C revolves upon the ground, the jack and the cutter-bar both resting on said wheel C, this wheel being secured to the rack-bar D, and rack-bar D being operated by means of pinion E and handle G, it will be seen that the cutter-bar is very conveniently lowered or elevated by simply turning the handle G, which moves the wheel C forward or backward, thereby tilting the cutter-bar, which is secured at any desired inclination by means of the chuck-bar H, operating in the catch-plate F.

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

Combining with the cutter-bar of a harvesting-machine, in the manner herein described, the tilting-jaw, constructed as described—that is to say, having the revolving handle G, spring-chuck H, stationary catch-plate F, pinion E, and rack-bar D, in combination with the wheel C, these several parts being constructed and relatively arranged with respect to each other and to the cutter-bar, and operating in the manner and for the purpose set forth.

JEREMIAH MITCHELL.

Witnesses:

G. W. HILDRETH,

S. A. CHARLES.