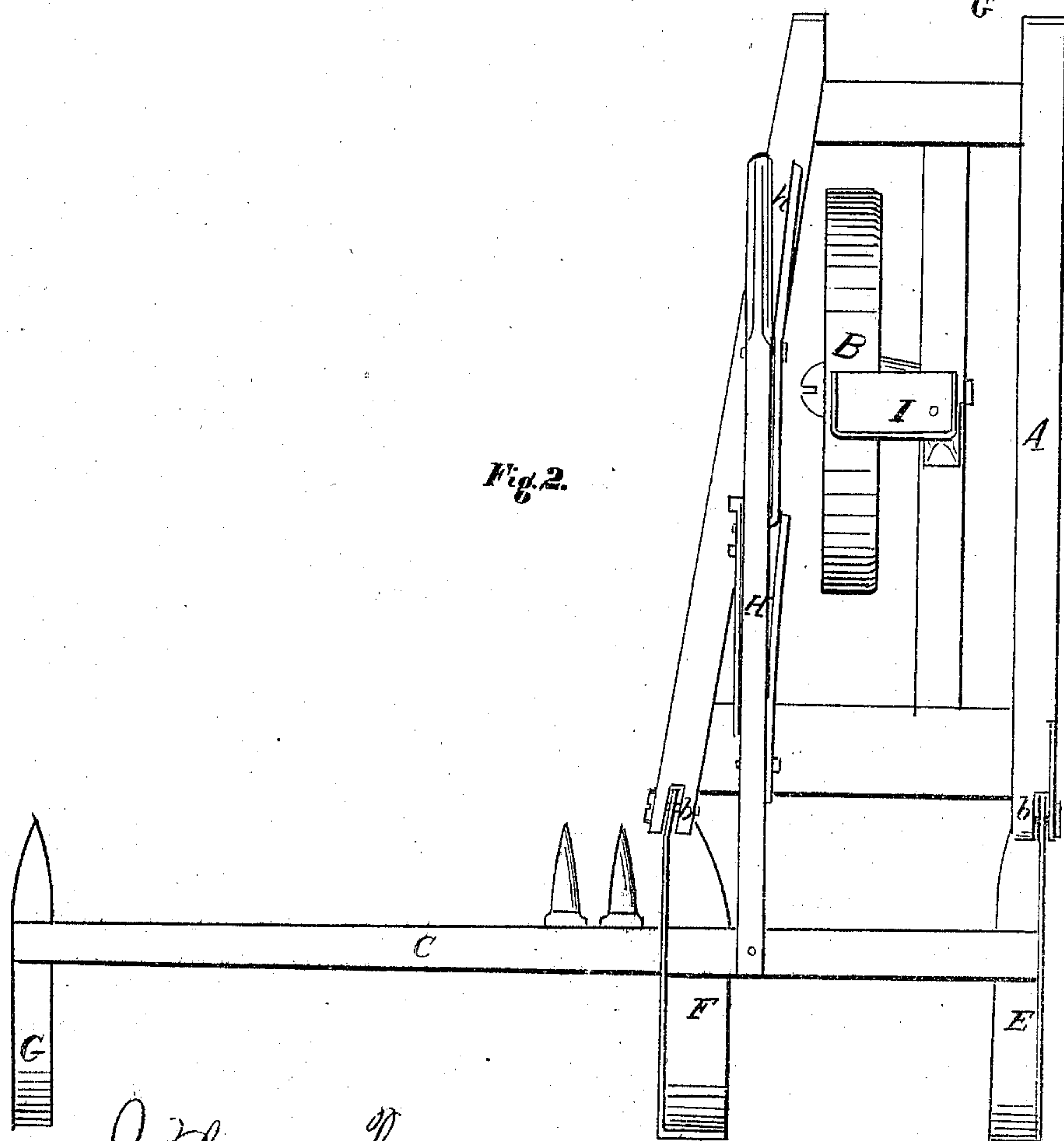
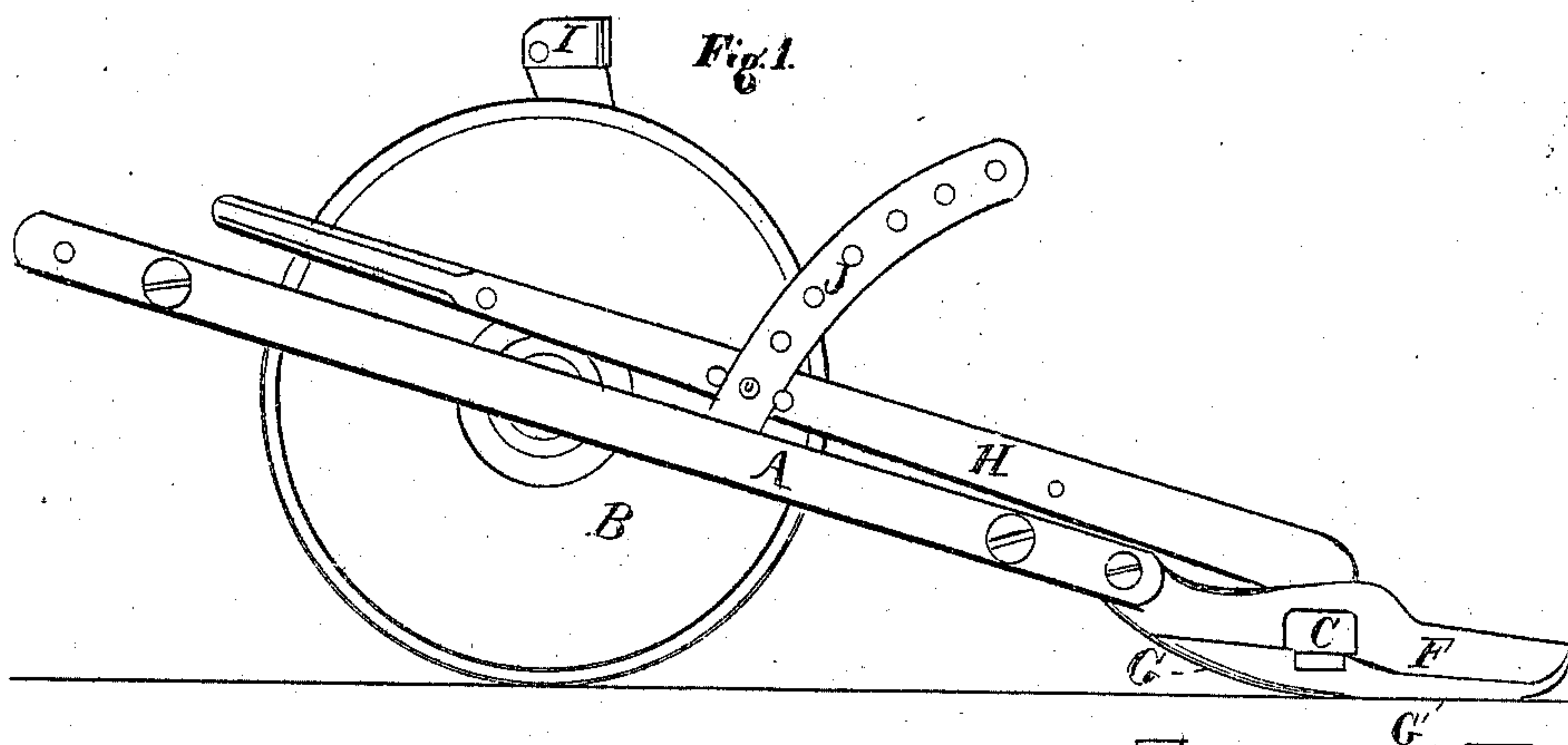


*S. M. Moore.*  
*Mower.*

*No. 36850*

*Patented Nov 4 1862*



*J. D. Gordon & Co.*  
*Fr. Schmidt* } *Witness.*

*S. M. Moore*  
*by his Attorney*  
*Wm. D. Baldwin*



# UNITED STATES PATENT OFFICE.

S. M. MOORE, OF BELOIT, WISCONSIN.

## IMPROVEMENT IN MOWING-MACHINES.

Specification forming part of Letters Patent No. 36,850, dated November 4, 1862.

*To all whom it may concern:*

Be it known that I, S. M. MOORE, of Beloit, in the county of Rock and State of Wisconsin, have invented a certain new and useful Improvement in Mowing-Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, which make part of this specification, and in which—

Figure 1 represents a view in elevation of a mowing-machine embracing my improvement as seen from the divider side thereof, and Fig. 2 a plan or top view of the same.

My invention relates to that class of mowing-machines in which the finger-beam is pivoted or hinged to the rear end of the main frame and behind the driving-wheel; and it consists in certain novel combinations and arrangements of parts, hereinafter described, for adapting the machine to the varying circumstances under which it is required to operate.

In the accompanying drawings, which represent a convenient arrangement of parts for carrying out the objects of my invention, a stout main frame, A, is shown as surrounding, supported by, and oscillating freely upon a main wheel, B, which is also the driving-wheel. A finger-beam, C, is connected to the rear ends of the projecting side pieces, *b*, of the frame by means of two long shoes or runners, E F, to which the beam is rigidly fastened. The toes of these shoes or runners are hinged or pivoted to the side pieces of the frame in such manner as to permit them to play freely up and down. I extend these shoes or runners (and also the divider-shoe G) much farther back behind the finger-beam than has heretofore been customary, and turn them up at the back nearly as much as in front. A lever, H, is firmly secured to the finger-beam between the two shoes E F, and extends forward over the main frame within easy reach of the driver, who occupies a seat, I, over the

driving-wheel. The lever H is provided with a spring-detent, *h*, which takes into a series of holes in a curved rack, J, secured upon the frame, in order to hold the lever at any desired height. By this arrangement the driver can readily raise or lower the rear end of the frame. As the frame rises the points of the guard-fingers are elevated, and the angle of the fingers with the ground consequently and correspondingly increased, which causes the grass to slide more freely over the beam. When thus elevated the weight of the beams rests upon the rear ends of the shoes, which enables the beam to pass more freely over stones and other obstructions and the machine to be backed with more facility than if shoes having short rear projections or heels were employed. Moreover with short shoes the drag of the bar would be increased, owing to the great angle with the ground it would necessarily present, and backing or turning would be almost impossible without previously lowering the finger-beam.

Having thus fully described the construction and operation of my improved mower, what I claim therein as new, and desire to secure by Letters Patent, is—

1. The combination of the main frame, driving-wheel, driver's seat, finger-beam, drag-shoes, and lifting-lever, when arranged for joint operation substantially as described, and for the purposes set forth.

2. The combination of the finger-beam with the shoes or runners E, F, and G, having great rear projections, when arranged and operating as and for the purposes described.

In testimony whereof I have hereunto subscribed my name.

S. M. MOORE.

Witnesses:

IRA T. SHUE,  
N. O. PERKINS.