

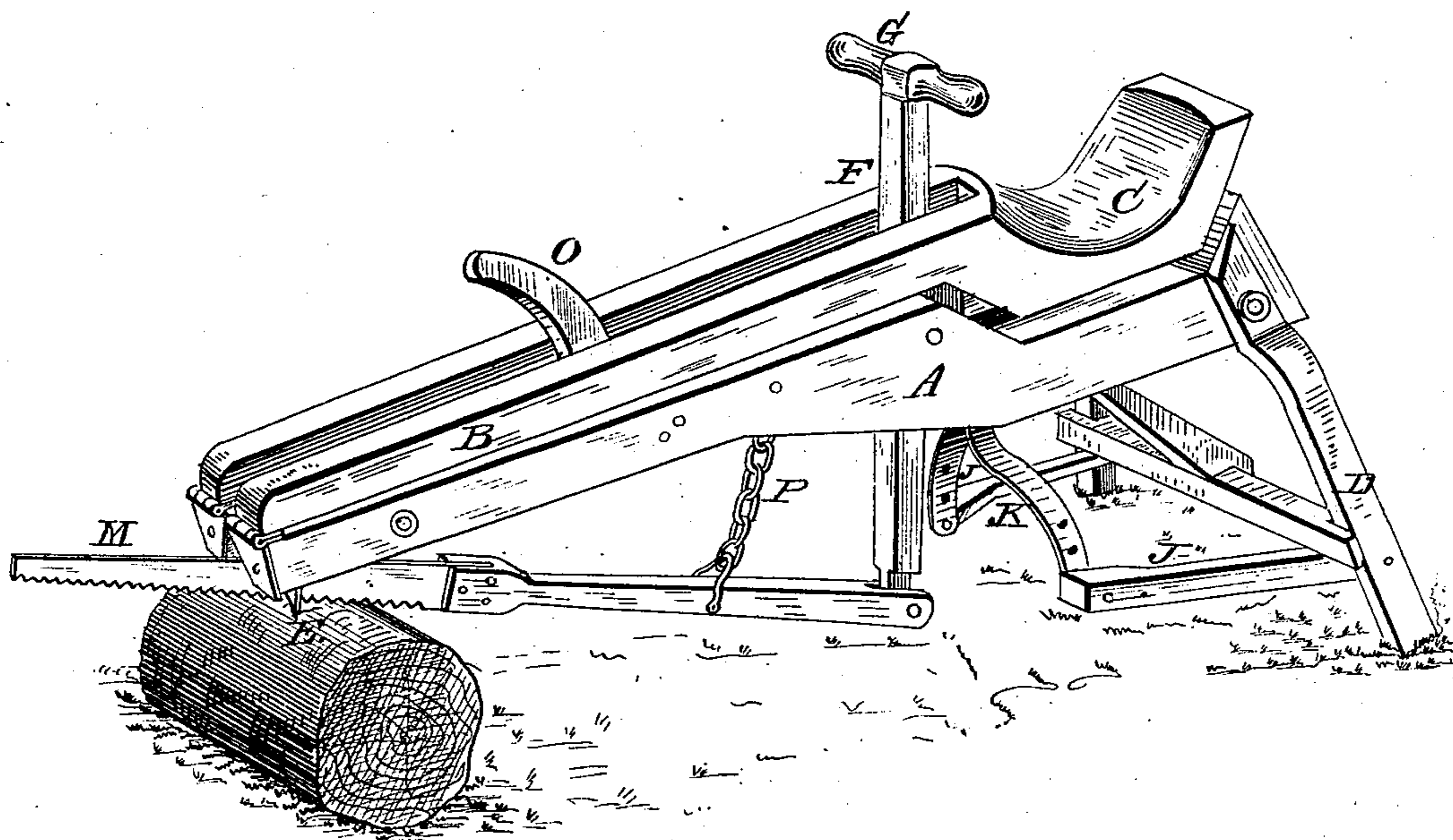
(No Model.)

J. K. HUTCHINS.  
Drag-Saw.

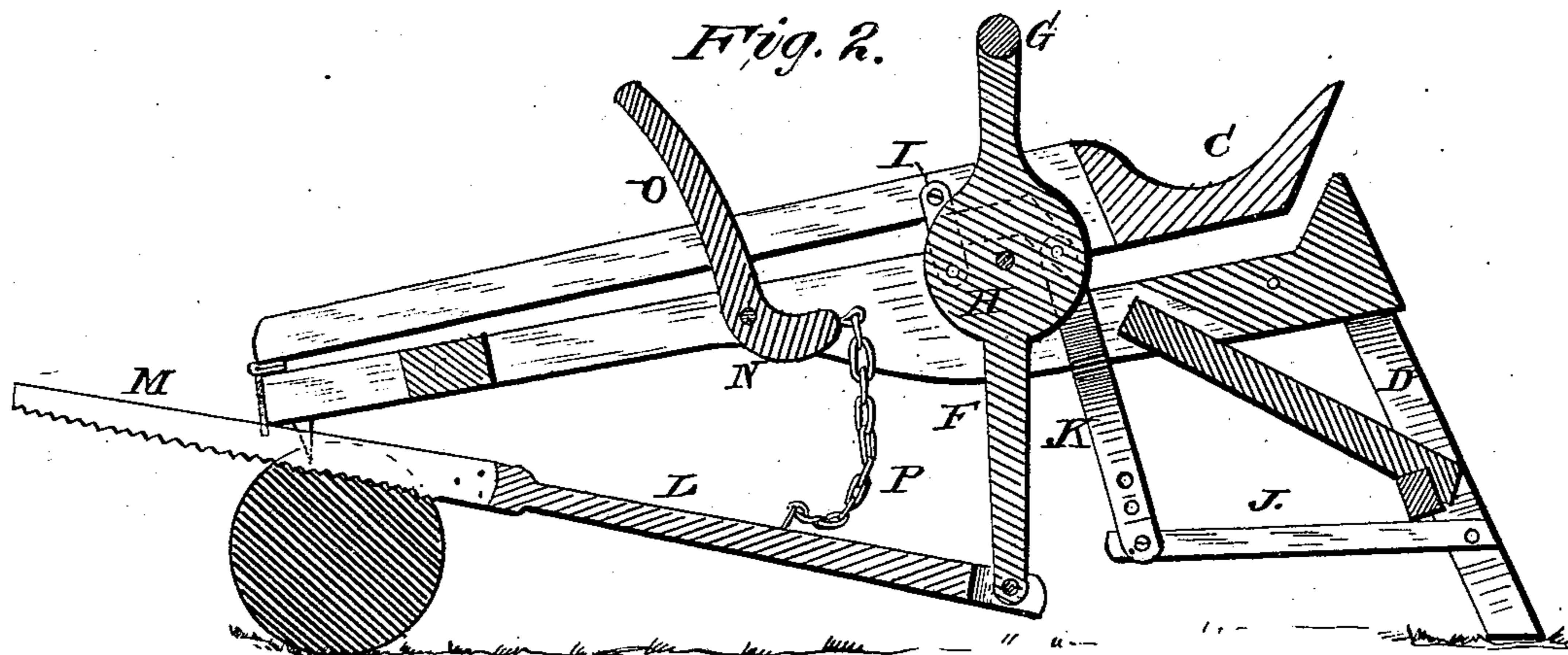
No. 227,110.

Patented May 4, 1880.

*Fig. 1.*



*Fig. 2.*



Witnesses:  
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# UNITED STATES PATENT OFFICE.

JAMES K. HUTCHINS, OF NEW HAVEN, (NEWARK P. O.,) MICHIGAN.

## DRAG-SAW.

SPECIFICATION forming part of Letters Patent No. 227,110, dated May 4, 1880.

Application filed March 11, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, J. K. HUTCHINS, of New Haven, (Newark P. O.,) in the county of Gratiot and State of Michigan, have invented certain new and useful Improvements in Drag-Saws; and I do hereby declare that the following is a full, clear, and exact description of the invention, 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, which form a part of this specification.

Figure 1 is a perspective view, and Fig. 2 is a longitudinal sectional view.

Similar letters of reference denote corresponding parts in both figures.

This invention relates to drag-saws; and it consists in certain improvements in the construction of the same, which will be herein-after more fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, A represents the body of the machine, which consists of a vertically-slotted beam, or two beams secured together by suitable cross-pieces.

At the front end of beam A is hinged another slotted beam, B, provided at its rear end with a seat, C, for the operator.

At its rear end the beam A is provided with suitable legs or supports D D, and at its front end with teeth or barbs E E, to catch in the log which is to be sawed.

F is a lever pivoted in the slot in beam A, and extending upward through the slotted beam B, above which it is provided with a handle, G, within convenient reach of the operator. The lever F is provided at its fulcrum with forward and rearward extending arms or with a disk, H, to the front of which the beam B is connected by pivoted rods I.

J J are rods or treadles pivoted to the legs or supports D D, and having their front ends connected by stirrups K K with the rear of disk H or arm of lever F, as the case may be.

The handle L of the crosscut-saw M is pivoted to the lower end of lever F.

N is a bent lever pivoted in the slot of beam A, and having an upward-extending handle, O, while to its lower end is attached a chain, P, connecting it with the saw-handle L.

To place the machine in position for operation, the handle of lever N is first lowered, thereby lifting the saw up between the barbs E E, where it is held while the said barbs are adjusted in the log, the legs D D meanwhile resting upon the ground. The operator now straddles the seat C, with his feet resting upon the treadles J J, upon which he throws his weight, at the same time pulling upon the lever F and rising in his seat, thus elevating the rear end of beam B and throwing the saw forward, the effect of the latter being at the same time to throw the handle O of lever N up and back, thus releasing the saw and permitting it to drop as the cutting progresses. The operator now throws his weight upon the seat C and pushes the lever F forward, thereby pulling the saw back. By continuing these operations the log is easily and rapidly cut.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

As an improvement in drag-saws, the combination of the slotted beam A, hinged slotted beam B, having seat C, legs D D, lever F, having disk H, connecting-rods I I, treadles J J, stirrups K K, and saw M, having handle L, with the bent lever N, having its lower arm connected to the saw-handle by a chain, P, substantially as and for the purpose herein set forth.

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

JAMES K. HUTCHINS.

Witnesses:

S. C. ROBINSON,

FREDRICK WERMUTH.