

(No Model.)

A. REICHERT.

DRAG SAW.

No. 355,623.

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Fig. 1.

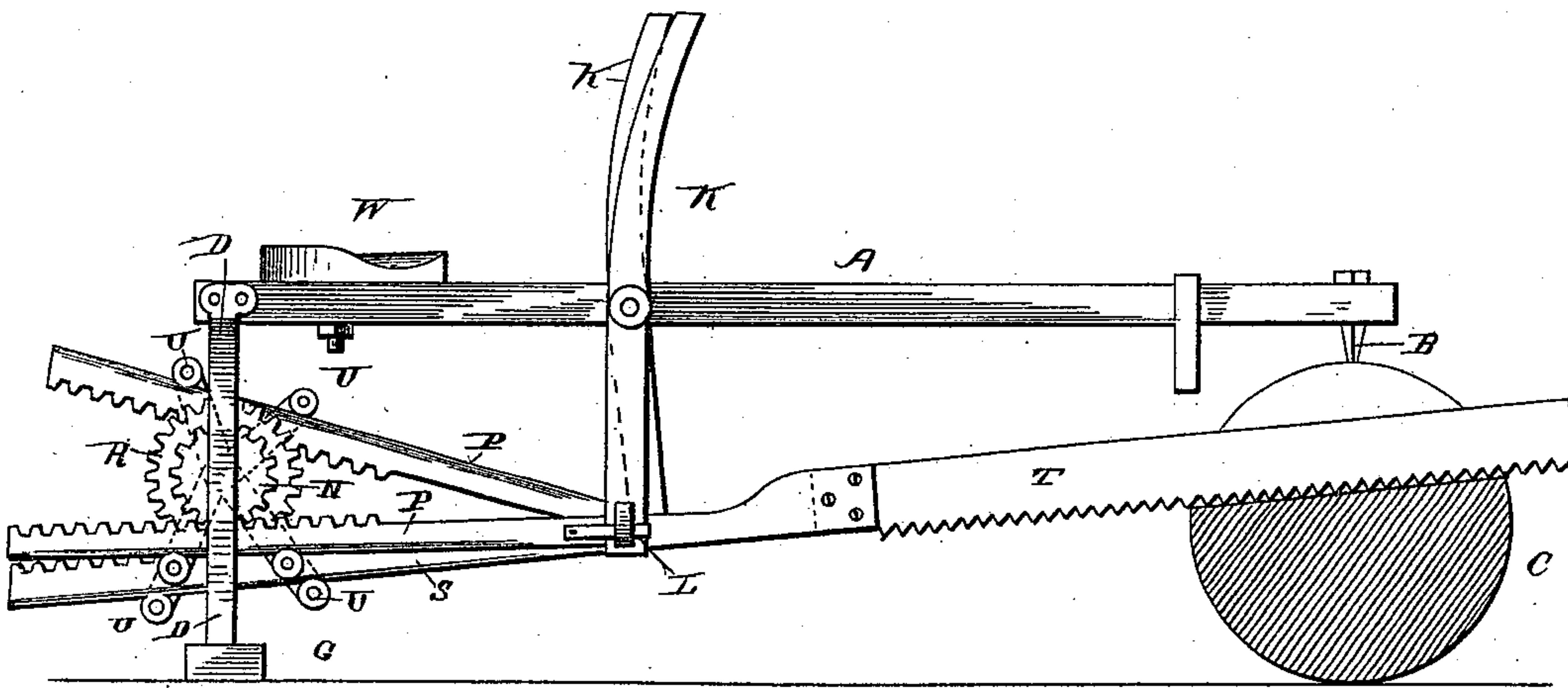


Fig. 2.

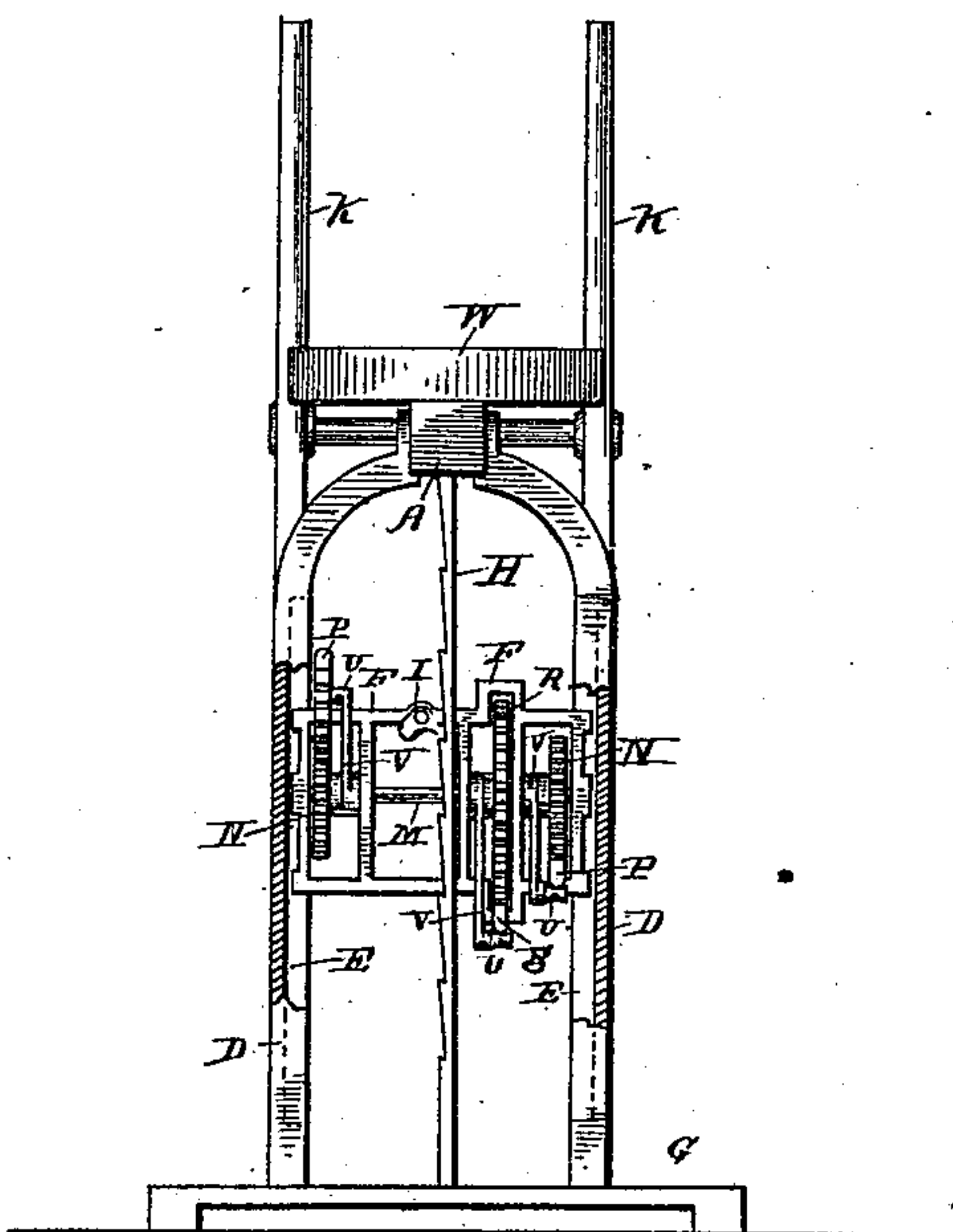


Fig. 3.

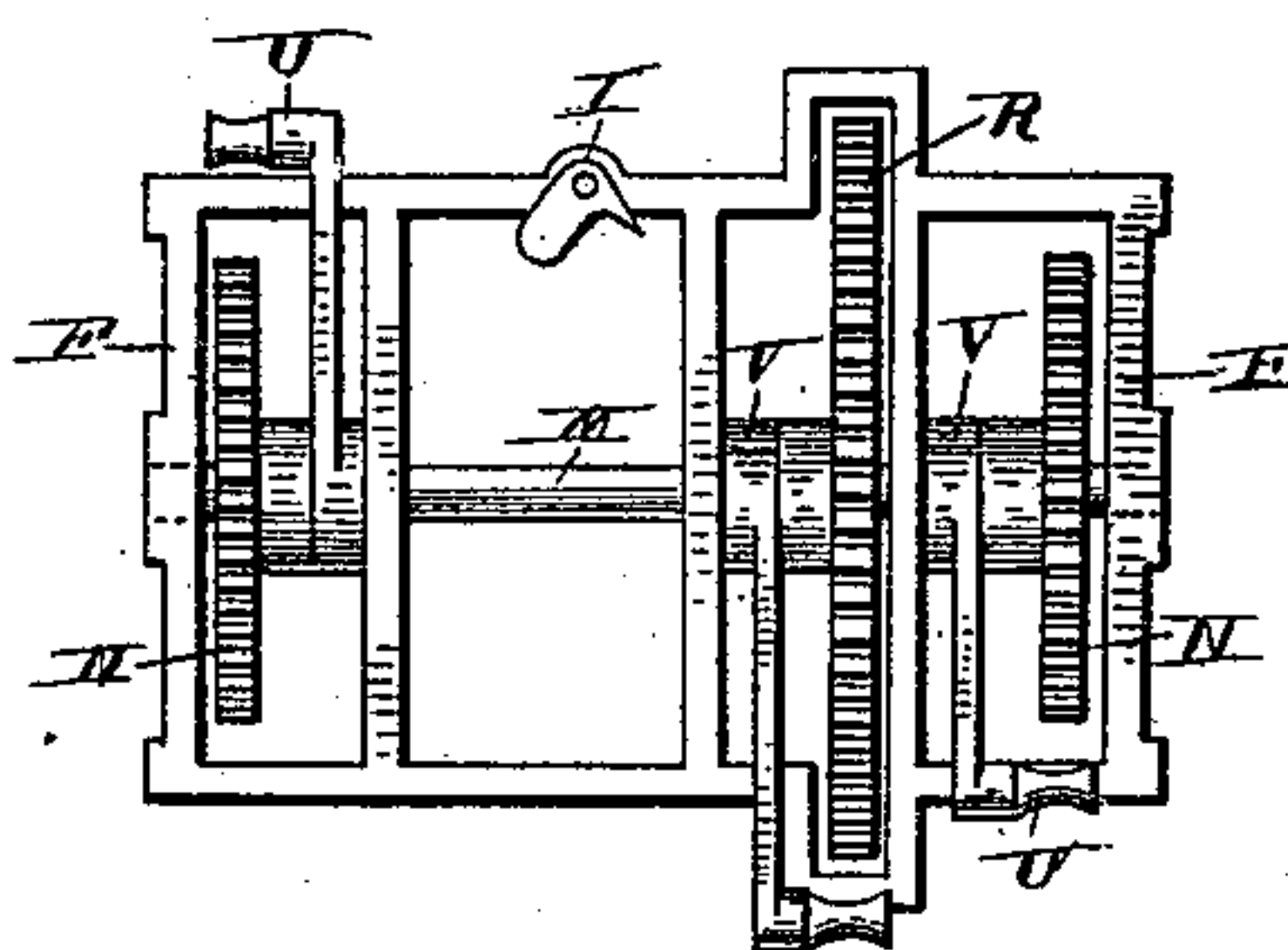
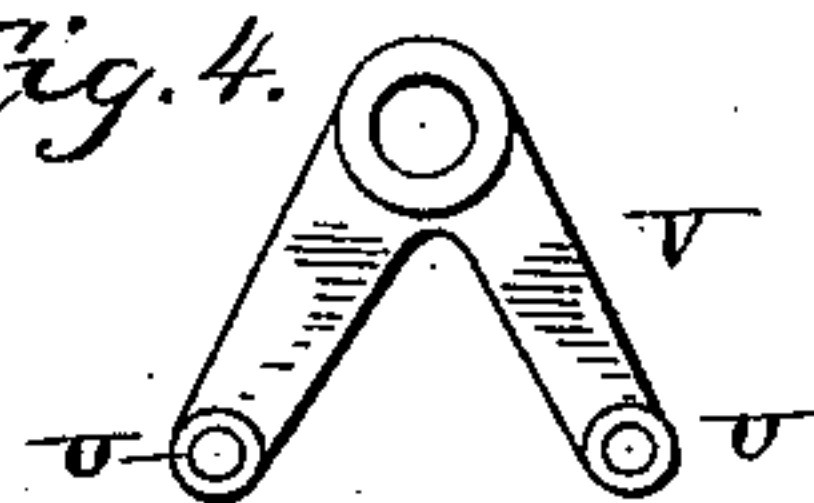


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

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DRAG-SAW.

SPECIFICATION forming part of Letters Patent No. 355,623, dated January 4, 1887.

Application filed April 15, 1886. Serial No. 198,896. (No model.)

To all whom it may concern:

Be it known that I, ADAM REICHERT, a citizen of the United States, residing at Tiffin, in the county of Seneca and State of Ohio, have invented certain new and useful Improvements in Drag-Saws, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain improvements in log-sawing machines of that class in which the device is fitted to the log to be sawed and operated by means of suitable levers; and it has for its objects to give a direct thrust to the saw and elevate the frame as occasion requires, as more fully hereinafter specified.

The above-mentioned objects I attain by the means illustrated in the accompanying drawings, in which—

Figure 1 represents a side elevation of my improved machine; Fig. 2, an elevation and part sectional view of the same; Fig. 3, an elevation of the sliding frame of my machine detached, and Fig. 4 a detached view of one of the guide-hangers forming part of my improved apparatus.

The letter A indicates a rectangular beam, which near its forward end is provided with a spike, B, adapted to set into the log C, so as to keep the beam and the log in the proper relative positions during the operation of sawing.

D indicates a vertical frame, which is provided with ways E, in which is adapted to move a frame, F, forming the rear part of the beam A. The said frame D is provided with a base, G, which rests upon the ground when the machine is in position.

The letter H indicates a vertical ratchet-rod, forming part of the frame D, and I a pawl adapted to engage the ratchets of said rod, so as to hold the frame in any properly-adjusted position.

To each side of the beam are pivoted or fulcrumed the levers K, the lower ends of which are provided with treadles L, by means of which the levers may be operated by foot. The upper arms of the levers serve as handles, by means of which they may be operated by hand.

In the frame F is journaled a transverse

shaft, M, which is provided with cog-pinions N, which are engaged or intergear with the rack-bars P, secured to the lower ends of the operating-levers. These pinions serve to move their shaft in reverse directions when operated by the rack-bars. To the shaft M is secured a pinion or cog wheel, R, which intermeshes with the rear end of a rack-bar, S, to the forward end of which the saw T is secured.

The respective rack-bars are kept to their intergearing pinions by means of the friction-rollers U, mounted on the angle-brackets V, which are pivoted to the shaft M.

W indicates a seat mounted upon the beam A, upon which the operator sits while working the saw.

The operator, in manipulating the machine, takes his position upon the seat, the beam being arranged in connection with the log, as shown in Fig. 1 of the drawings. Then by operating the levers by foot and hand, through the reversely-operating gearing, the saw is thrust back and forth as required. To elevate the saw and adjust it to its work, the pawl and ratchet-bar are brought into use, the pawl serving to hold the frame to any desired position upon the ratchet-bar.

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

1. The combination, with the horizontal beam A and the upright beam to which it is secured, of the levers K K, pivoted to said beam A, the rack-bars P P, pivoted to said levers, the cog-pinions N N, secured to the common shaft M and intergearing with said rack-bars, the cog-wheel R, mounted on said shaft M, and the rack-bar S, with which said wheel R meshes, the said rack-bar carrying the saw, to which it gives a reciprocating motion, substantially as specified.

2. The combination, with the rack-bars P P and S and the cog-pinions N N and wheel R, of the friction-wheels U, mounted on suitable arms and bearing upon the respective rack-bars to hold them in gearing with the cogged pinions and wheel, substantially as and for the purposes specified.

3. The combination, with the main frame

D and beam A, of the sliding frame F, the cog-pinions N N, and wheel R, mounted on a common shaft, M, journaled in the frame F, the rack-bars P P and their operating-levers, and the rack-bar S, carrying the reciprocating saw T, the whole arranged to operate substantially in the manner and for the purposes specified.

In testimony whereof I affix my signature in presence of two witnesses.

ADAM REICHERT.

Witnesses:

A. C. BARBOUR,
N. B. LUTES.