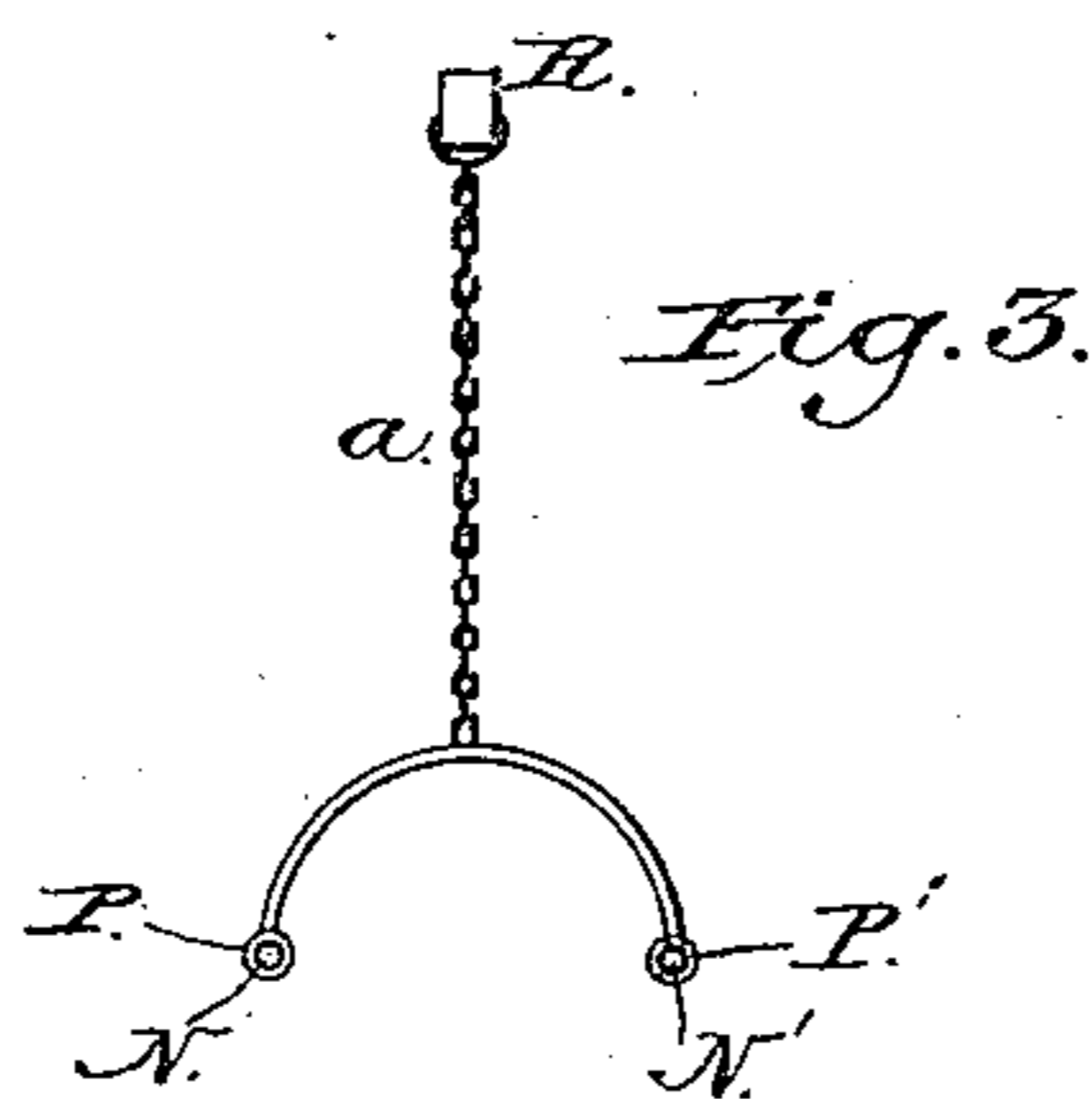
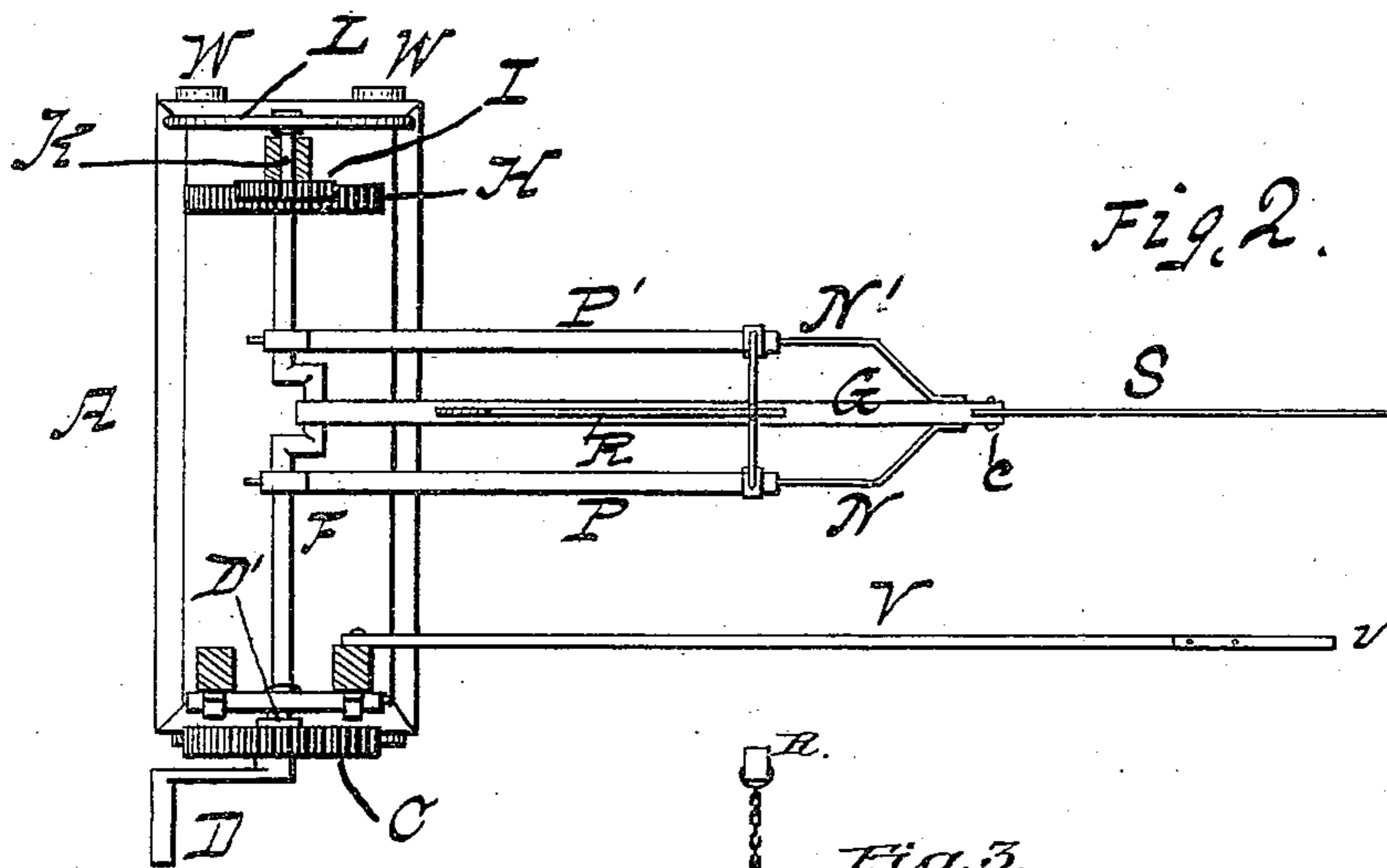
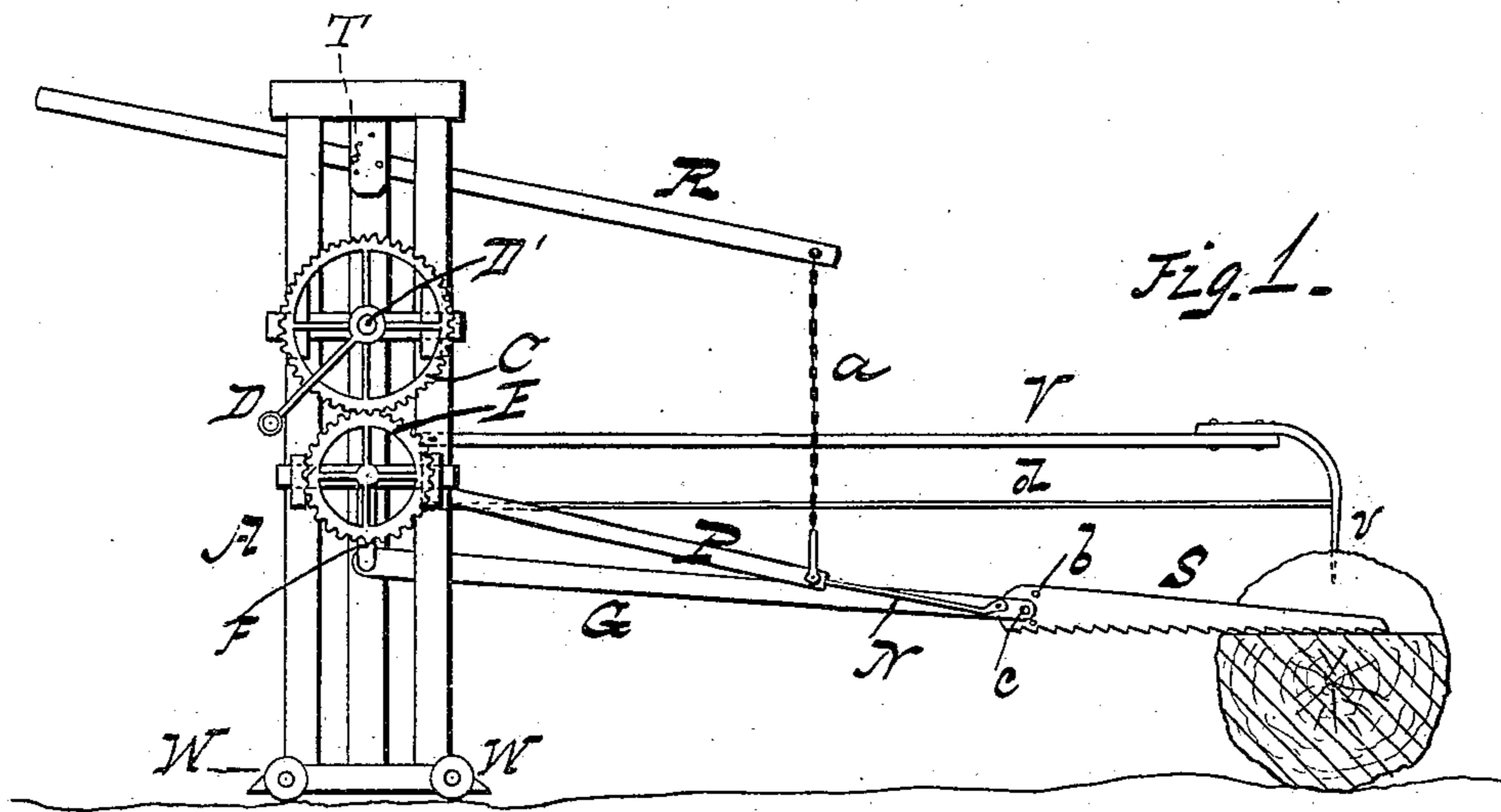


(No Model.)

W. WARMOTH.
FIRE WOOD DRAG SAW.

No. 246,253.

Patented Aug. 23, 1881.



WITNESSES
E. H. Bates
James J. Sheehy.

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UNITED STATES PATENT OFFICE.

WILLIAM WARMOTH, OF LAKE VALLEY, INDIANA.

FIRE-WOOD DRAG-SAW.

SPECIFICATION forming part of Letters Patent No. 246,253, dated August 23, 1881.

Application filed May 26, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM WARMOTH, a citizen of the United States, resident of Lake Valley, in the county of Morgan and State of Indiana, have invented a new and valuable Improvement in Crosscut-Saws; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side elevation of the device, and Fig. 2 is a plan view, partly in section. Fig. 3 is a detail view of the chain yoke and lever.

This invention has relation to sawing-machines; and it consists in the construction and novel arrangement of devices hereinafter shown and described, and specifically pointed out in the claim appended.

In the accompanying drawings, the letter A designates the frame of the machine, consisting of three uprights, the cap and sill, and the braces.

D represents the crank, connected to the shaft D', which is pivoted in bearings on the uprights and carries the driving-gear C, which engages the cog-wheel E on one end of the transverse crank-shaft F, to which the pitman G, which extends to the saw, is connected. On the other end of the crank-shaft F is secured the toothed wheel H, which engages the cog-wheel I, which is secured to the shaft K. L indicates the fly, also secured to shaft K.

S represents the saw, and N N' are rods working in guide-tubes P P', said tubes being pivoted in rear to the driving-shaft F, and con-

nected at their front ends by the chain-connection a to the lever R. This lever is pivoted to the cap of the frame, and serves to raise or lower the saw. The lever R is secured, after adjustment, by means of a ratchet device, T, or other fastening, so that the saw can be held in any desired position. The saw is provided with a series of holes or bearings, b, at its rear end, in front of the pivotal connection with the pitman, and a spring-bolt fastening is employed, as shown at c, serving to hold the point of the saw in position after it has been raised or lowered.

V indicates the beam, which is provided with a hook-spike, v, and serves to hold the log and machine in proper relative position. This beam is secured by its rear end to the frame, and is braced by the rods d.

The frame A is usually mounted on wheels W, and can then be easily transported from place to place.

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

A sawing-machine having the guide-tubes P P', pivoted to the driving-shaft, the saw-guiding rods N N', working in said tubes, the adjusting-lever R, and the connection a between said lever and the guide-tubes, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM WARMOTH.

Witnesses:

TELEMICHUS N. BENNETT,
MORDECAI PRUITT.