

J. H. Harvey,

Log Loader.

No. 103608.

Patented May 31. 1870.

Fig. 1.

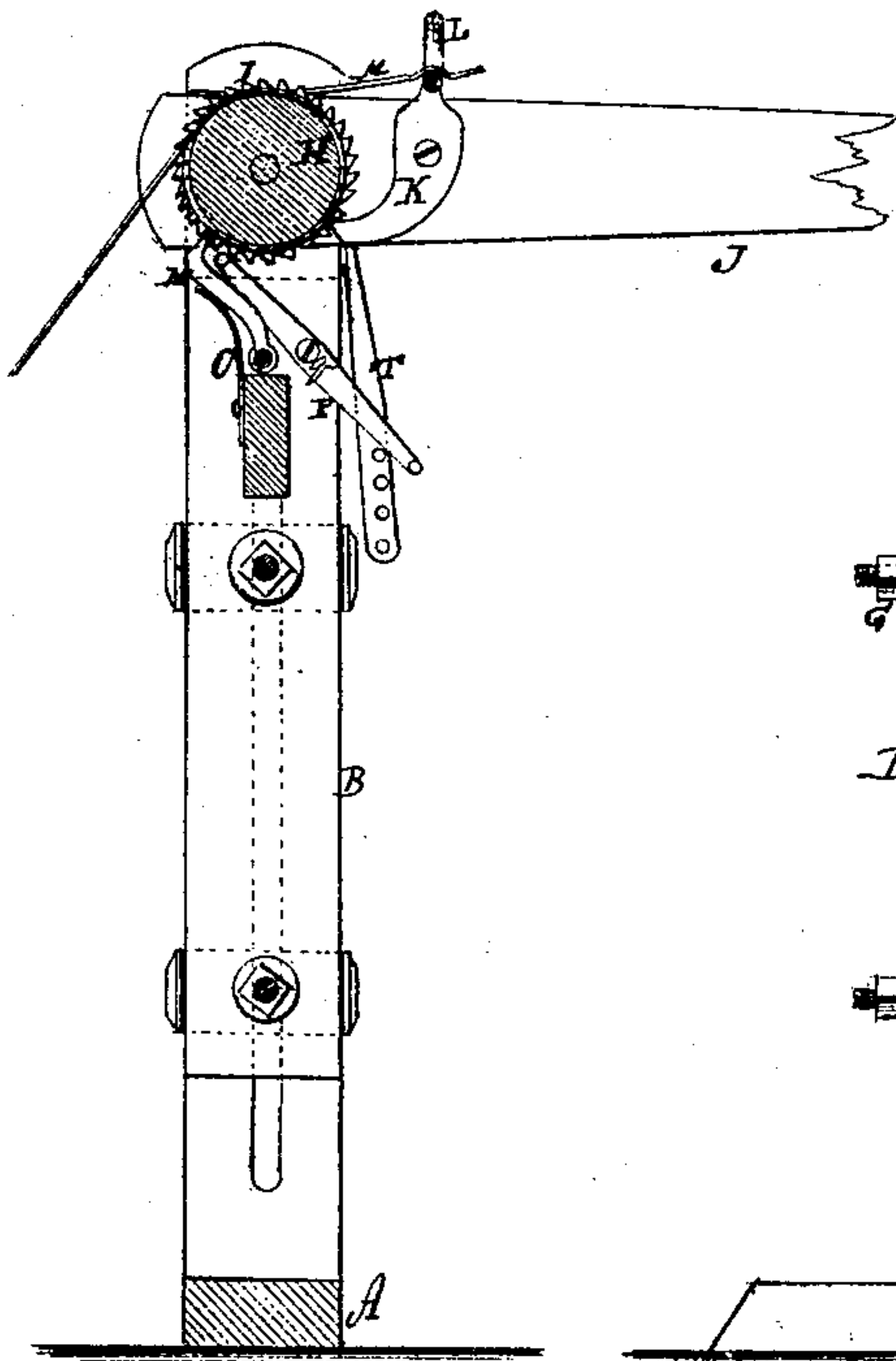
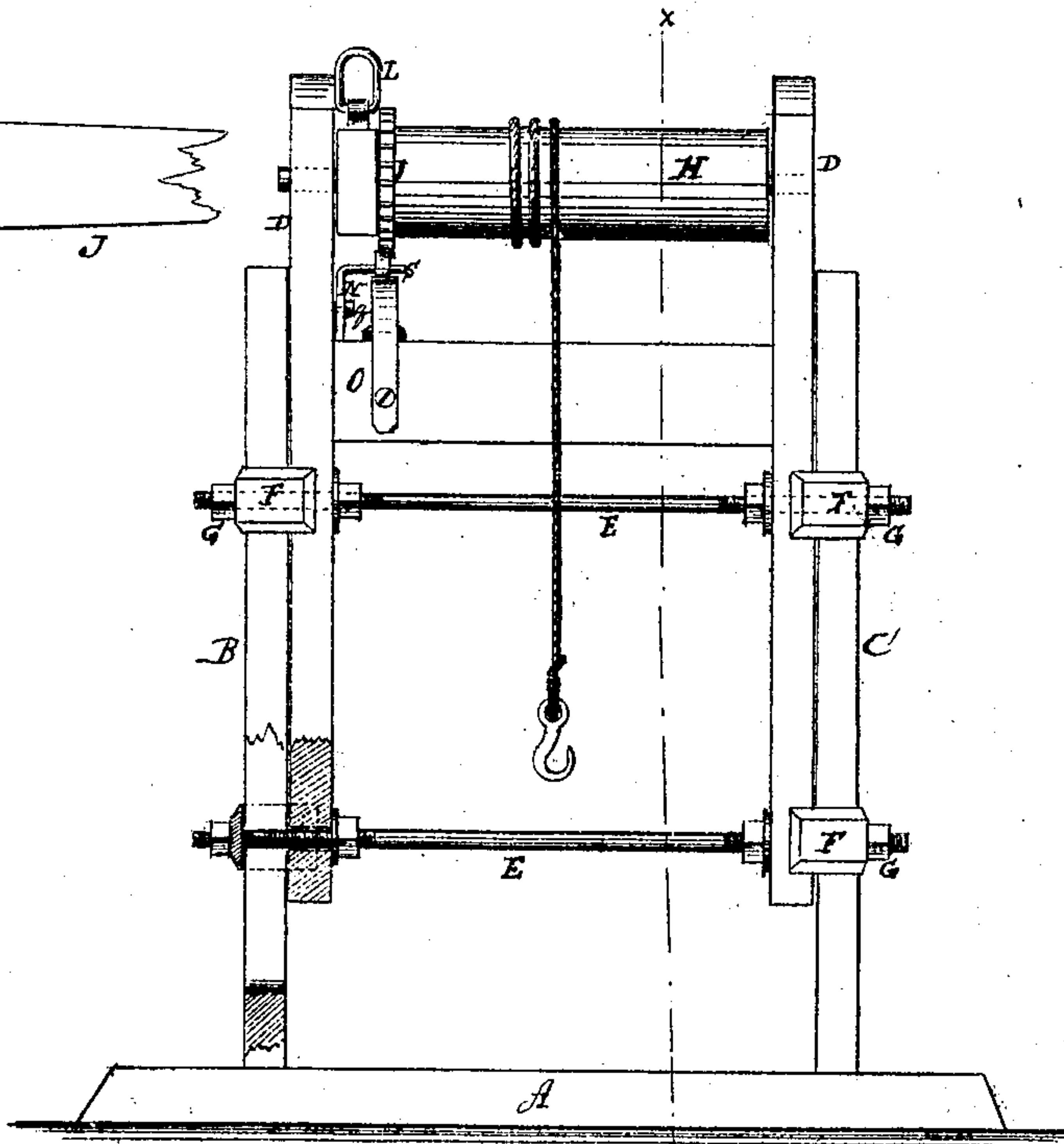


Fig. 2.



Witnesses:

Chas. Kida.
E. S. Mabee.

Inventor:

J. H. Harvey
PER *Mumford*
Attorneys.

United States Patent Office.

JOHN H. HARVEY, OF CHANTICLEER, OHIO.

Letters Patent No. 103,608, dated May 31, 1870.

IMPROVED LOG-LOADER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JOHN H. HARVEY, of Chanticleer, in the county of Knox and State of Ohio, have invented a new and improved Log-Loader; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

The object of this invention is to provide efficient means for loading or rolling logs or other heavy weights, (more especially saw-logs;) and

It consists in revolving a drum or cylinder on an adjustable frame by means of a ratchet-wheel and pawl-lever and stop-pawl, so arranged as to be readily thrown out of gear with the ratchet-wheel, for gigging back and operating, as hereinafter more fully described.

In the drawing—

Figure 1 is a vertical section of the machine, looking to the left from the line *xx* of fig. 2.

Figure 2 is a side elevation, partly in section.

Similar letters of reference indicate corresponding parts.

A is the base or bed-plate, to which are rigidly attached the two slotted stands B and C.

D is a frame, made adjustable, as to height, between the stands B and C by means of the rods E, clasps F and nuts G, as seen in fig. 2.

H is the drum or cylinder, which is made to revolve on journals in the adjustable frame D.

I is a ratchet-wheel, rigidly attached to the end of the drum.

J is the lever, which works on the journal of the drum between the end of the drum and the frame D.

K is the working-pawl attached to the side of the lever, but having a loop, L, jutting over the top of the lever, as seen in fig. 2.

M is a spring attached to the top of the lever, passing through the loop, with a slight circular indentation, which sits on the base of the loop and serves to hold the pawl to its work when engaged with the ratchet.

N is the holding-pawl, which is attached to the frame D and held to its work by a spring, o.

A rope or chain is fastened to the drum and made to operate upon a log or other heavy body by means of the lever working up and down.

For producing a reverse motion of the drum or gigging back without loss of time, I throw the working-pawl K out of gear with the ratchet by pushing its upper end or loop L forward, which throws its toe back from the ratchet, in which position the pawl is held by the spring M.

The holding-pawl N is thrown out of gear by means of the lever P, the ends of which are turned at right angles with the lever in opposite directions.

This lever is pivoted to the frame at *q*.

When the end R is raised, the other end S, (see fig. 2,) will crowd the pawl N from the ratchet-teeth.

The lever P is held in this position by the loose rod T, through which is made one or more holes by means of which the rod is connected with the lever, and held in the desired position.

When the pawls are thus thrown out of gear with the ratchet, the drum is left free to revolve by simply pulling the rope for gigging back.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

1. The pawl K and spring M, arranged and operating as described, for the purposes set forth.

2. In combination with the holding-pawl N, the bar P and rod T, by means of which said pawl is held out of gear, substantially as described.

3. The combination of the bar P, rods T, pawls K and N with a log-loader and roller, when the same are arranged to operate substantially as described, and for the purposes set forth.

JOHN H. HARVEY.

Witnesses:

WM. A. MAHAN,
EDWIN LYON.