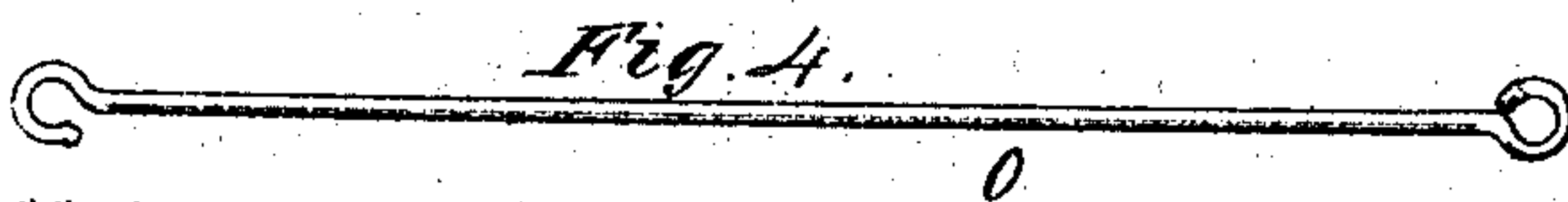
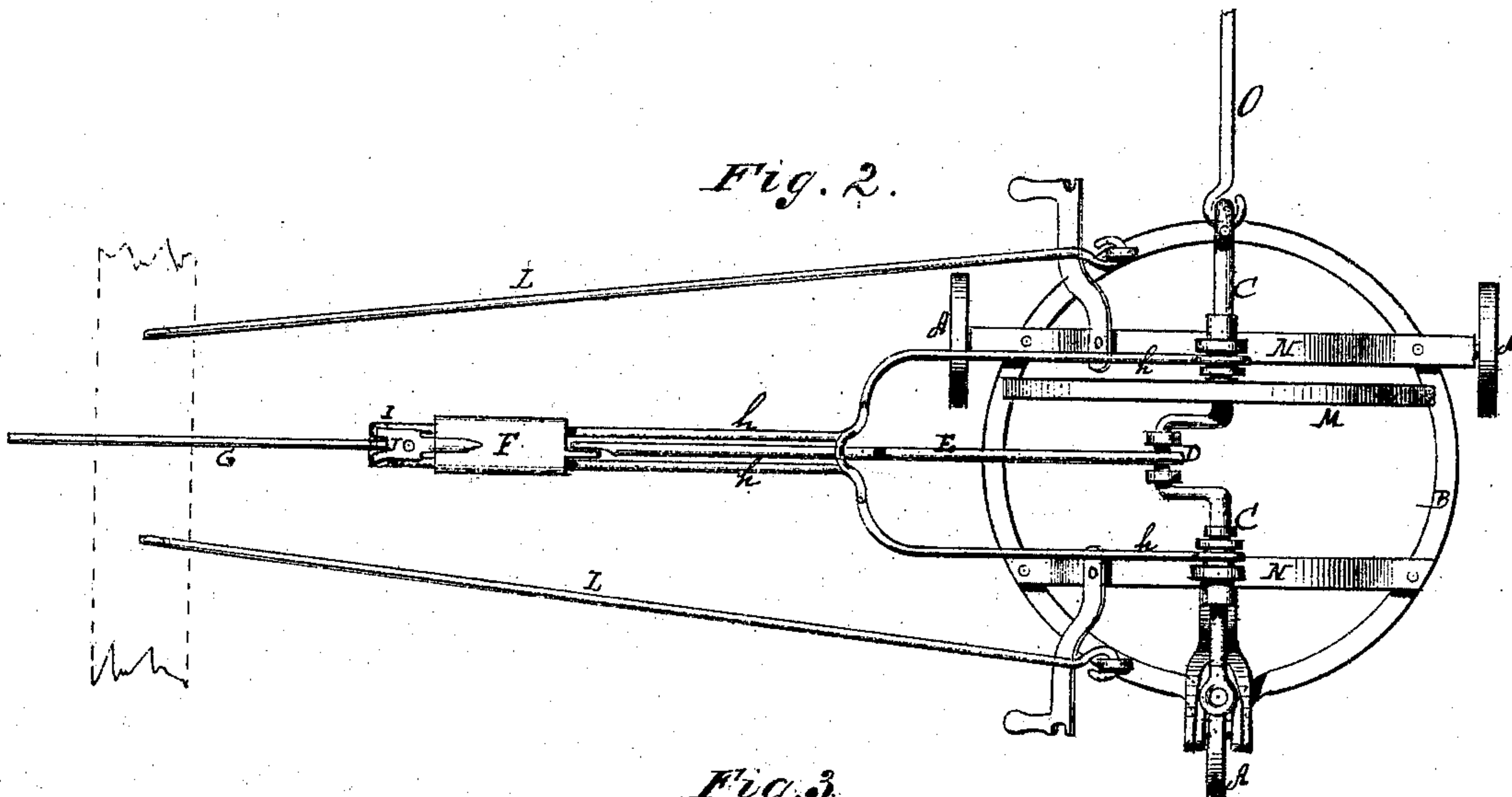
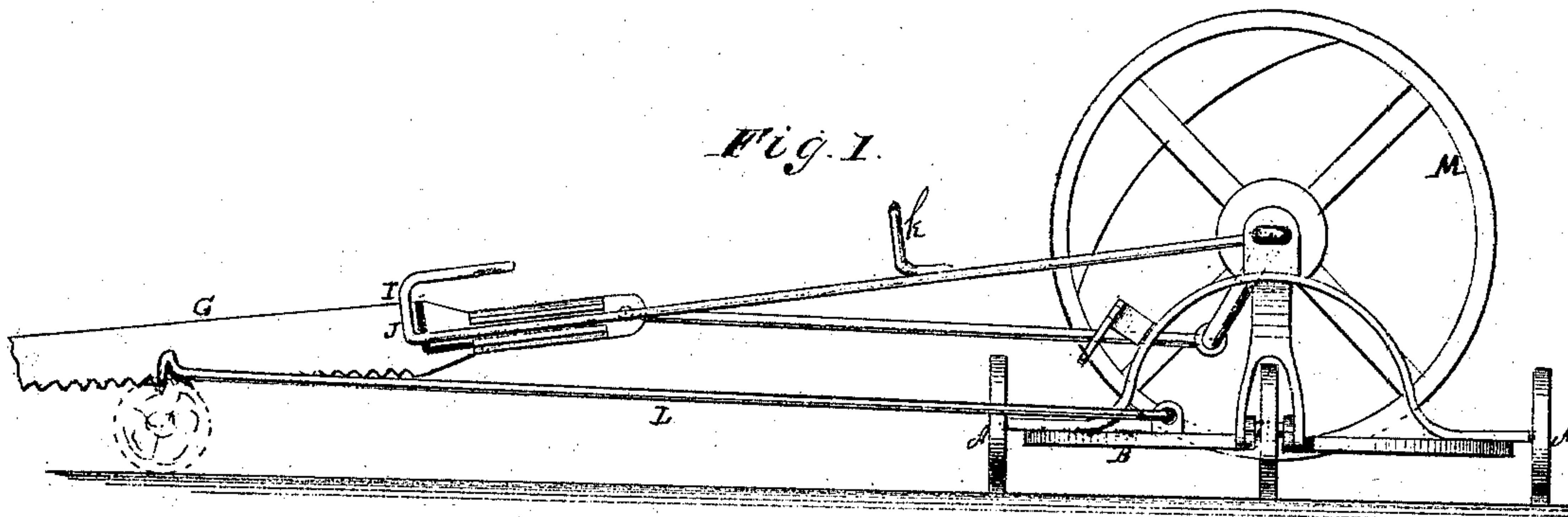


J. I. Culver,

Drag Saw.

No. 98,568.

Patented Jan. 4. 1870.



Witnesses:

Wm. R. Brooks

Chas

Inventor:

J. I. Culver

PER

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Attorneys.

UNITED STATES PATENT OFFICE.

JACOB D. CULVER, OF BELLMORE, INDIANA.

IMPROVEMENT IN SAWING-MACHINES.

Specification forming part of Letters Patent No. **98,568**, dated January 4, 1870.

To all whom it may concern:

Be it known that I, JACOB D. CULVER, of Bellmore, in the county of Parke and State of Indiana, have invented a new and useful Improvement in Sawing-Machine; 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 drawings, forming part of this specification.

This invention relates to new and useful improvements in machines for sawing logs across the grain; and consists in the construction and arrangement hereinafter described.

In the accompanying drawing, Figure 1 represents a side view of the machine. Fig. 2 is a top or plan view. Figs. 3 and 4 are views of an extension and coupling rod.

Similar letters of reference indicate corresponding parts.

This machine is supported on wheels A by means of a round metallic frame, B, from which frame two arches extend upward for carrying the boxes in which the crank-shaft C revolves. This shaft C extends out from the boxes on each side, so that the same may be coupled with a horse-power for driving the saw.

D is the crank, and E is the pitman, which takes hold of the cross-head F, to the other end of which cross-head the saw G is attached.

The cross-head runs on the guide-rods *h h*, which are loosely connected with the crank-shaft near the journal-boxes. The outer ends of these guides are connected to the vertical angular piece I, which is split, so as to form a guide for the saw, as seen at J, Fig. 1. The

two guide-rods *h h* are connected by the arched piece K, so that they may be kept parallel with each other for forming the ways or guides for the cross-heads.

L L are dogs, which are jointed to the frame B, with angular points at their outer ends for driving into and holding the log to be sawed. M is a fly-wheel on the crank-shaft. N represents the arches on the frame which support the crank-shaft. O is a section of a coupling-rod for connecting the sawing-machine with horse-power. This rod may be considered a portion of Fig. 4. P is an extension-rod in two parts, R and S. R is a square rod, and S is tubular, the two being made to fit together. When this rod is used, it will be seen that the distance between the saw and the horse-power may be increased, as may be desired, and a number of cuts made from a log by simply moving the machine toward or from the horse-power.

The advantages of this sawing-machine over those in common use are many, and must be obvious to all.

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

The arrangement of the frame B, arches N, shaft C, rod or pitman E, guides *h h*, and cross-head F, with the dogs L L, substantially as and for the purposes set forth.

JACOB D. CULVER.

Witnesses:

JAMES GLASS,
JAMES E. TUCKER.