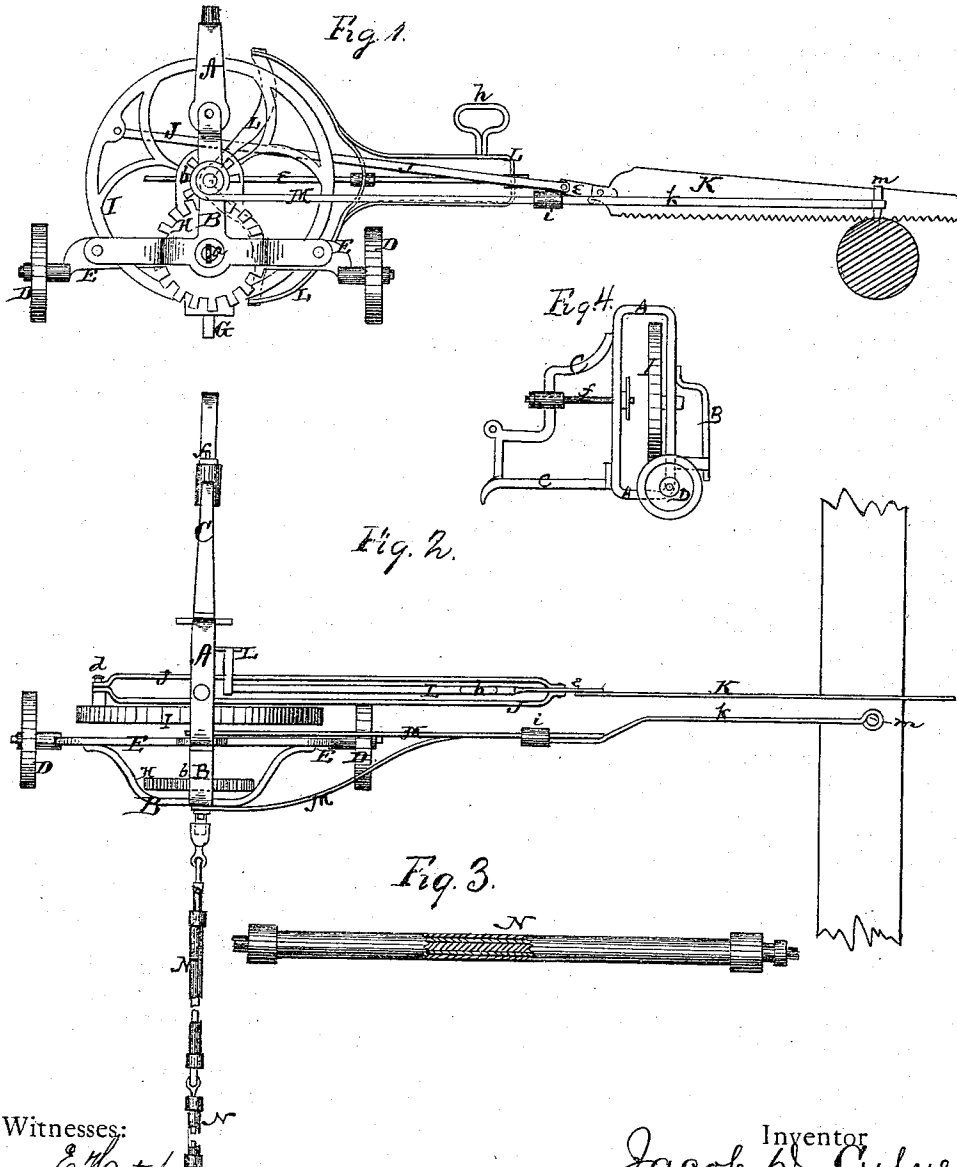


J. D. CULVER.

Improvement in Sawing-Machines.

No. 126,033.

Patented April 23, 1872.



Witnesses:
James C. Hutchinson
C. L. Evers

Inventor
Jacob D. Culver
per Alexander Madsen
Attorneys.

UNITED STATES PATENT OFFICE.

JACOB D. CULVER, OF BELLMORE, INDIANA.

IMPROVEMENT IN SAWING-MACHINES.

Specification forming part of Letters Patent No. 126,033, dated April 23, 1872.

To all whom it may concern:

Be it known that I, JACOB D. CULVER, of Bellmore, in the county of Parke and in the State of Indiana, have invented certain new and useful Improvements in Sawing-Machines; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in certain improvements on the sawing-machines for which Letters Patent have been granted to me, January 4, 1870, and October 31, 1871, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation, and Fig. 2 a plan view of my machine; Fig. 3 is an enlarged side view, part in section, of one of the extension shafts, and Fig. 4 represents the frame which contains all the working parts of my machine.

The frame of my machine is cast in three pieces, A, B, and C, firmly bolted together. The piece A is an upright rectangular frame, one side of which is extended near the lower end, both in front and rear, to form the axle E, upon which the wheels D D are placed. To this side of the part A the piece B is attached, this latter piece, consisting of three arms, as shown in Fig. 1, one of which is attached to the main part of the piece A, and the other two to the ends of the axle E. Upon the opposite side of the piece A is attached the piece C of the frame, said piece being constructed as shown in Fig. 4, and provided with a foot, G, upon which this part of the frame rests. In suitable boxes formed in the part B of the frame, and in the outer side of the frame A, is placed a shaft, *a*, upon which is a cog-wheel, H, within the frame B, said cog-wheel gearing with a pinion, *b*, upon a shaft above and parallel with the shaft *a*. The shaft which carries the

pinion *b* is, upon its inner end within the frame A, provided with the fly-wheel I, upon one side of which is a wrist-pin, *d*, having a double or slotted pitman, J, placed upon it. In the outer end of the pitman J is pivoted a rod, *e*, the front end of which is flattened, and has the saw K attached to it, while the rear end passes through suitable guides in a frame, L, which is pivoted by means of a shaft, *f*, passing through the frames A and C. The frame L supports the saw, and is provided with a handle, *h*, by means of which the saw is raised from the log, when desired. Upon the shaft which carries the pinion *b* and fly-wheel I is pivoted another frame, M, at the front end of which is pivoted a bar, *k*, which may be held stationary by a loop, *i*, and is at its outer end provided with a point, *m*, to be driven into the log for holding the same while it is being sawed.

Motion is communicated to this machine from a horse-power by means of the extension rods N N, one of which is a double and the other a triple rod. The double rod consists of a square rod fitting into a tube with a square interior, and the triple rod has an additional tube on the outside; and by means of these rods the sawing-machine can be used with very little trouble from one to five lengths away from the horse-power. In other words, the log may be sawed into any-sized pieces merely by adjusting the extension rods, the machine being readily moved on its wheels D D in the direction the log is lying, as the axle is parallel with the line of motion of the saw, and both at right angles with the log.

Having thus fully described my invention, what I claim as improvements upon my former patents above referred to, and desire to secure by Letters Patent, is—

1. The frame, consisting of the three cast pieces, A, B, C, constructed as shown and described, and an extension or an enlargement of the part A, forming the axle E, substantially as herein set forth.

2. The combination of the pivoted frame L with handle *h*, guide-rod *e*, saw K, pitman J,

and wrist-pin *d* on the fly-wheel I, all constructed and arranged substantially as and for the purposes herein set forth.

3. The combination of the pivoted frame M, pivoted bar *k*, loop I, and point *m*, all substantially as and for the purposes herein set forth.

4. The combination of the frame A B C, axle E, wheels D, foot G, gearing H *b*, fly-wheel I, pitman J, saw K, pivoted frames L M, bar *k*

with point *m*, and the extension rods N N, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 20th day of November, 1871.

JACOB D. CULVER.

Witnesses:

JAS. GLASS,

JOHN J. MEACHAM.