

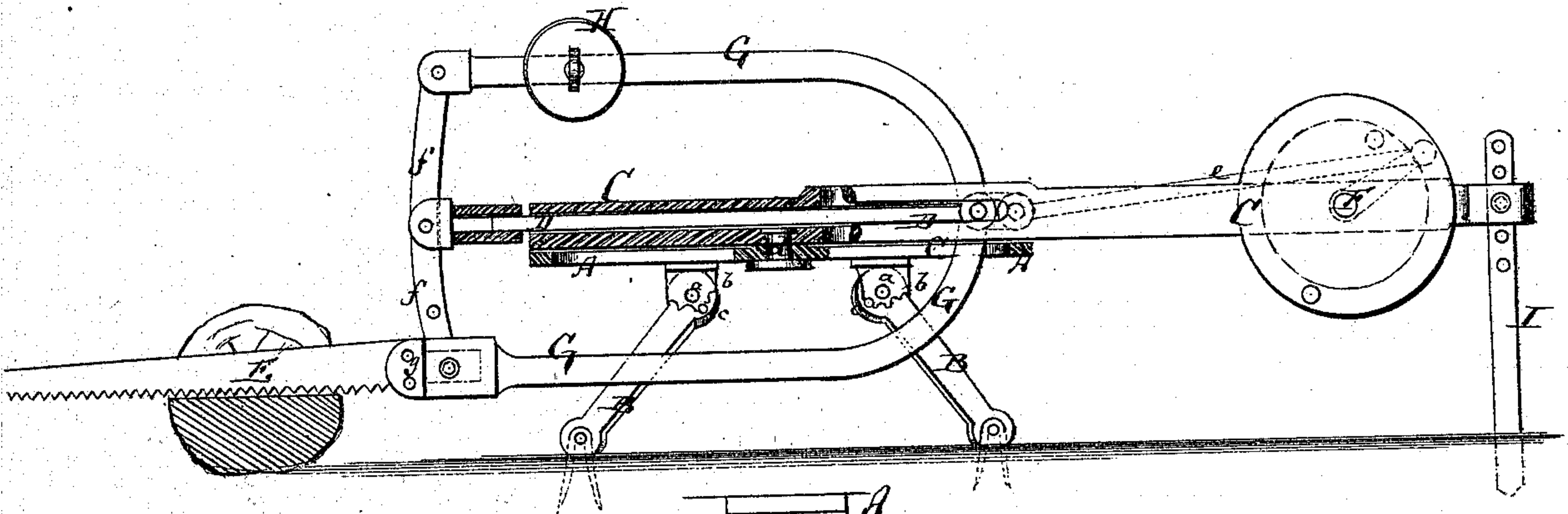
*J. A. Elston,*

*Sawing Machine.*

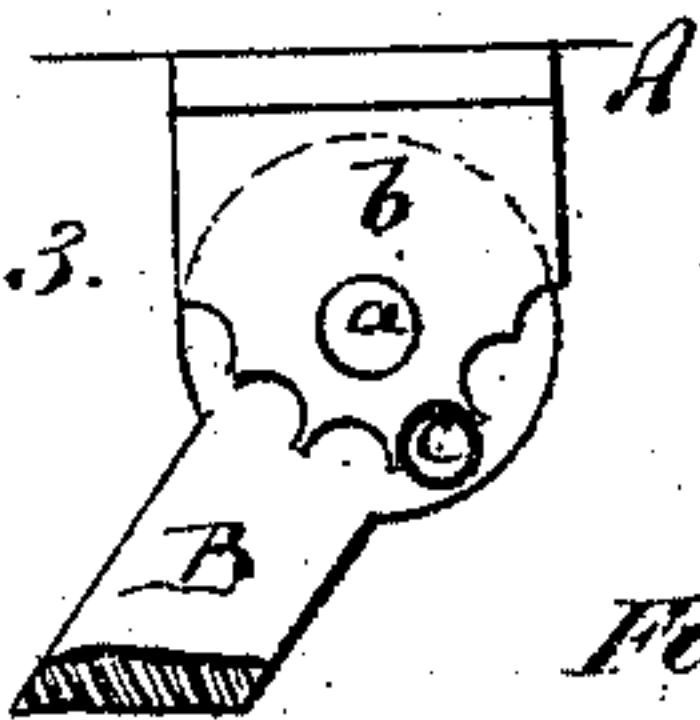
*No. 105,928.*

*Patented Aug. 2. 1870.*

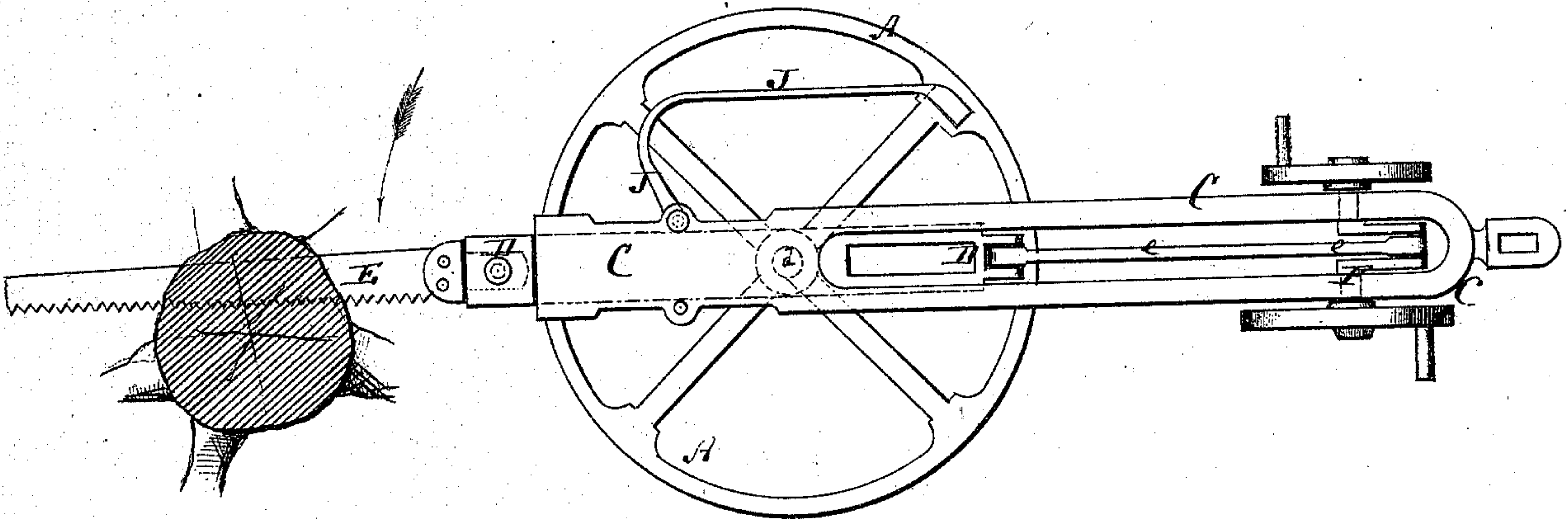
*Fig. 1.*



*Fig. 3.*



*Fig. 2.*



**Witnesses:**

*August Dietrich*  
*E. S. Mabey*

**Inventor:**

*J. A. Elston*  
**PER** *Munn & Co.*  
**Attorneys.**



# United States Patent Office.

JAMES ANTHONY ELSTON, OF ELSTON STATION, MISSOURI.

Letters Patent No. 105,928, dated August 2, 1870.

## IMPROVEMENT IN SAWING-MACHINE.

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, JAMES ANTHONY ELSTON, of Elston Station, in the county of Cole and State of Missouri, have invented a new and improved 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 drawing forming part of this specification, in which—

Figure 1 represents a side elevation, partly in section, of my improved sawing-machine.

Figure 2 is a plan or top view of the same.

Figure 3 is a detail side view, on an enlarged scale, of the adjustable leg attachment.

Similar letters of reference indicate corresponding parts.

This invention relates to a new sawing-machine, which is so constructed that it can saw horizontally as well as vertically through trees or logs of suitable thickness, and which can be adjusted to saw at any suitable height, and in any desired position.

A in the drawing represents a wheel or circular frame, which is by means of four, more or less, legs B B, supported in a horizontal position.

The legs B are, by pins *a*, pivoted to ears *b*, that project from the under side of the wheel, and can, for transportation, be folded against the wheel, to enable the same to be rolled on edge over the ground.

The edge of each ear *b*, or the upper end of each leg B, is made in form of a notched segment, into which is locked a pin, *c*, for retaining each leg at a suitable degree of inclination. Thereby the frame A can be secured at a suitable height.

To the center of the frame A is, by a pin, *d*, pivoted a long slotted frame, C, which serves as a guide for the slide D, for operating the saw E.

The slide D is, by a rod, *e*, connected with a crank-shaft, F, that is hung in the back end of the frame C.

By revolving the crank-shaft F, the slide will receive reciprocating motion, together with the saw that is attached to the same.

For vertical sawing, I pivot to the back part of the slide D a bow-shaped frame, G, which, at its front end, carries a cross-bar, *f*, sliding in a forked pin, *g*, that is put into the front end of the slide.

The saw is attached to this frame G, and will, by the weight of or by means of an additional weight, H, on the same, be fed down through the block. In this position the frame C is locked by means of an upright post, I, which prevents it from being swung on the pivot *d*.

For horizontal sawing, *i. e.*, for cutting off trees, &c., I remove the frame G and post I, and secure the saw E directly into the front end of the slide D, as shown in fig. 2, which will bring the saw into a horizontal position. I then, after having secured the legs B firmly to the ground, swing the frame C against a spring, J, on A, compressing said spring.

The saw is operated by means of the crank-shaft, and fed by the spring J.

Having thus described my invention,

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

1. The wheel A, for supporting the sawing-machine, provided with pivoted legs, which are locked to notched segments by pins *c*, to be adjustable as described.

2. The wheel A, and slotted guide-frame C, pivoted together, as set forth, combined with a slide, D, and spring J, all relatively arranged for sawing the erect timber, as shown in fig. 2 of drawing.

3. The subject-matter of the second clause, combined with the weighted frame *f* G H, as shown in fig. 1 of drawing.

4. The perforated adjustable post I, combined with the adjustable legs B, as and for the purpose described.

The above specification of my invention signed by me this 3d day of May, 1870.

JAMES ANTHONY ELSTON.

Witnesses:

PHIL. COUSTAU,  
S. VETSBURY.