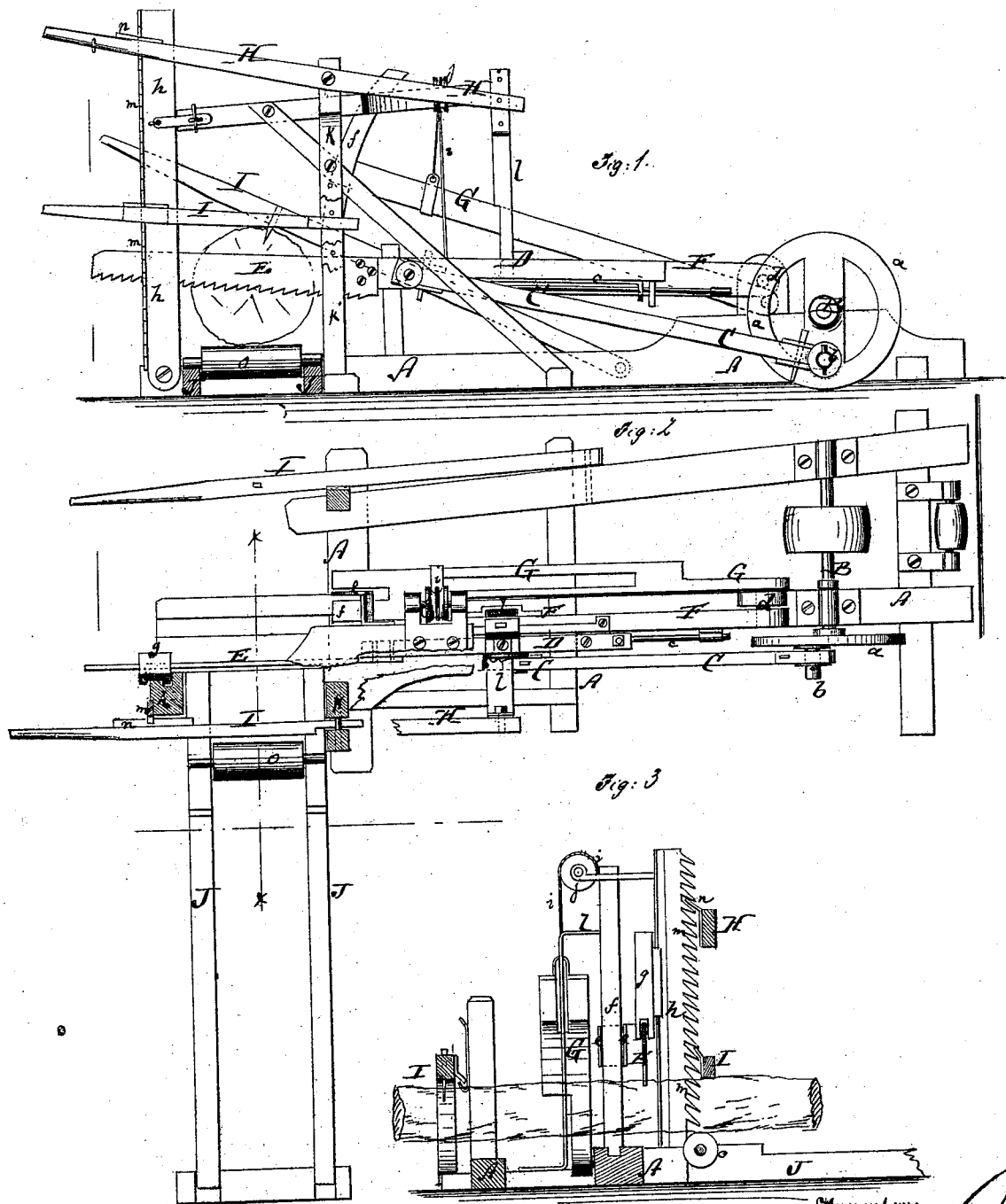


J. Felton,
Sawing Machine.
No. 112,794. Patented Mar. 21. 1871.



Witnesses:

Chas. Rice
L. S. Mabee

Inventor:

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United States Patent Office.

JACOB FELTON, OF FAIRMOUNT, INDIANA.

Letters Patent No. 112,794, dated March 21, 1871.

IMPROVEMENT IN SAWING-MACHINES.

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, JACOB FELTON, of Fairmount, in the county of Grant and State of Indiana, 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 of my improved sawing-machine.

Figure 2 is a plan or top view, partly in section, of the same.

Figure 3 is a vertical transverse section of the same, *z z*, fig. 2, being the section line.

Similar letters of reference indicate corresponding parts.

My invention relates to drag-saws, and consists in an improved mode of balancing the blade, as herein-after described and subsequently claimed.

A in the drawing represents the supporting-frame or bed of my improved sawing-machine.

B is the driving-shaft, hung horizontally in the rear part of the same.

The shaft is rotated by suitable mechanism, and carries a fly-wheel, *a*, which is, by a crank-pin, *b*, connected with the rod C, for operating the reciprocating saw-slide D.

The saw-blade E, which is of suitable form and construction, is rigidly secured to a sliding frame, D, which is, by means of the rod C, connected with the shaft B.

The frame D is supported on rails, *c c*, which are, by suitable ears, secured to a beam, F.

This beam is, at its rear end, by a pin, *d*, pivoted to the frame A, while its front end carries claws, *e e*,

that straddle an arched guide-post, *f*, projecting from the bed A.

A weight, *g*, sliding along a vertical post, *h*, of the frame A, rests on the saw-blade during the operation, and feeds the same into the timber to be cut.

This weight is, to a certain degree, balanced by a pivoted beam, G, which is hollowed to receive adjustable-weights, and connected by a rope, *i*, passing over a roller, *j*, with the beam F.

H is a lever, pivoted to a post, *k*, and provided with downwardly-projecting arm, *l*, by means of which it can be used to elevate the beam F and carry the saw up clear of the wood.

The post *h* has a notched plate, *m*, with which an ear, *n*, of the lever H is in constant contact to lock the saw when elevated.

I I are other levers, used for holding the log in place.

They are pivoted or in suitable manner applied to the frame-work.

The post *h* is pivoted at its lower end, so that it can be swung out of the way together with its weight, *g*, when the same may not be required.

A log frame, J, having rollers, *o*, for the log to be moved on, is attached to the frame A, as shown in fig. 2.

Having thus described my invention,

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

The hollow pivoted beam G, rope *i*, and roller *j*, combined, as described, with beam F, for the purpose specified.

JACOB FELTON.

Witnesses:

ISAAC VAN DEVANTER,
JOHN W. ROGERS.