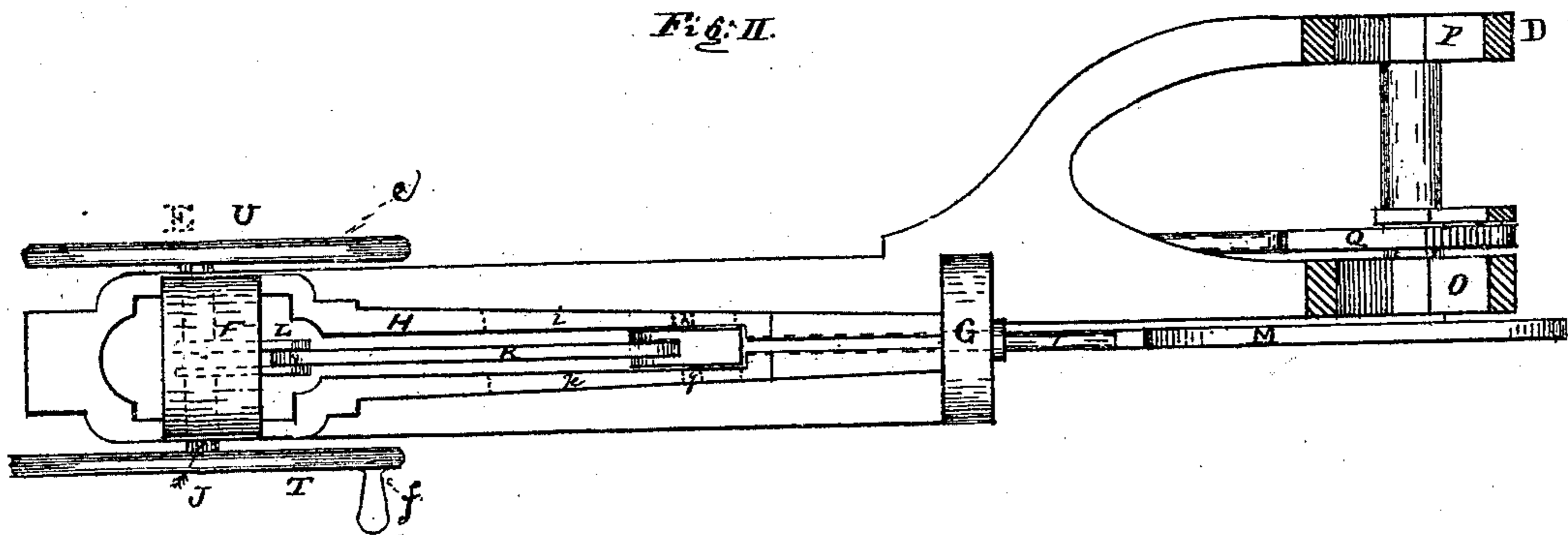
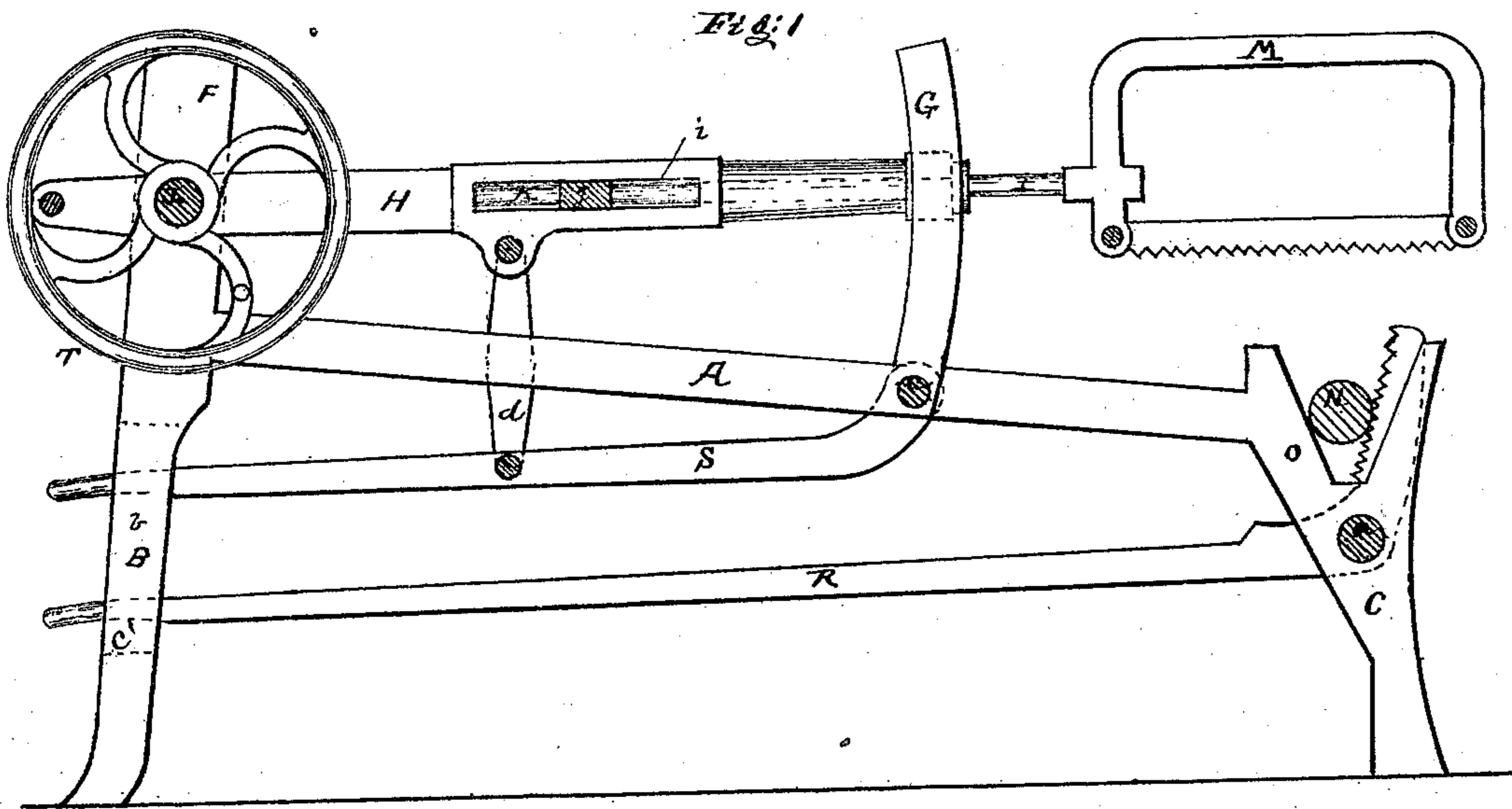


J. A. ELSTON.

Improvement in Sawing-Machines.

No. 131,510.

Patented Sep. 24, 1872.



WITNESSES:  
Franklin Barlett  
Richard G. Crues

INVENTOR:  
James Anthony Elston  
PER Henry Gerner  
1872.

# UNITED STATES PATENT OFFICE.

JAMES A. ELSTON, OF ELSTON STATION, MISSOURI.

## IMPROVEMENT IN SAWING-MACHINES.

Specification forming part of Letters Patent No. 131,510, dated September 24, 1872.

*To all whom it may concern:*

Be it known that I, JAMES A. ELSTON, of Elston Station, county of Cole, State of Missouri, have invented certain Improvements in Sawing-Machines, of which the following is a specification:

The object of my invention is to construct and provide a machine for sawing wood, which is simple and cheap in construction, not liable to get out of order, and will do the work required in an easier and more satisfactory manner than the heretofore used and invented sawing-machines.

In order to describe my invention more fully I will refer to the accompanying drawing forming part of this specification.

Figure I is a side view of a sawing-machine embodying my invention. Fig. II is a plan view of the same.

A is a frame, having four legs, B, C, D, and E. On the top of the frame A is placed the upright journal-box F and the guide G. The hollow shaft H, into which is introduced the saw-handle I, is held upon the upright box F, in the bearings of the journals of the crank L, by a collar or thimble molded or turned upon the upright box, the crank-journals passing through this collar. A connecting-rod, K, is placed between the crank L and the saw-handle I, in order to give the saw M, which is placed on the end of the saw-handle I, a backward and forward movement, as required for sawing or separating a piece of wood, N, laid in the saw-benches O and P. Said piece of wood N is held in the benches by the aid of the toothed bench piece Q, pivoted on the

screw *a*. To the bench piece Q is fastened the lever R, which is guided in the slot *b*, formed in the standard of the legs B and E. To the screw *c* is pivoted a lever, S, which is guided in the slot *c'*, also formed in the standard of the legs B and E. To said lever S is pivoted the connecting-rod *d*, which is also pivoted to the hollow shaft H. The two wheels T and U, with handles *e* and *f*, are fastened to the crank-shaft J, and give the required motion to the saw. The two guide-pins *g* and *h* are fastened to the saw-handle I, and work in the slots *i* and *k* in order to give a steady motion to the saw.

The operation is simply this: A log of wood being deposited in the saw-benches O and P, and held therein by aid of the toothed bench-piece Q and the lever R, is operated upon by the saw M, which is lifted, by aid of the lever S before the sawing, in order to introduce the log in the benches.

Having thus described my invention, I desire to claim—

The frame A, provided with legs B, C, D, and E, saw M, handle I, crank-shaft J, upright journal-box F, wheels T and U, connecting-rod K, crank L, and saw-benches O and P, in combination with the upright guide G, the hollow shaft H, bench piece Q, lever S, slot *b*, lever R, slot *c'*, and connecting-rod *d*, substantially as and for the purpose hereinbefore set forth.

JAMES ANTHONY ELSTON.

Witnesses:

THOS. L. HARPER,  
PETER P. McNEIL.