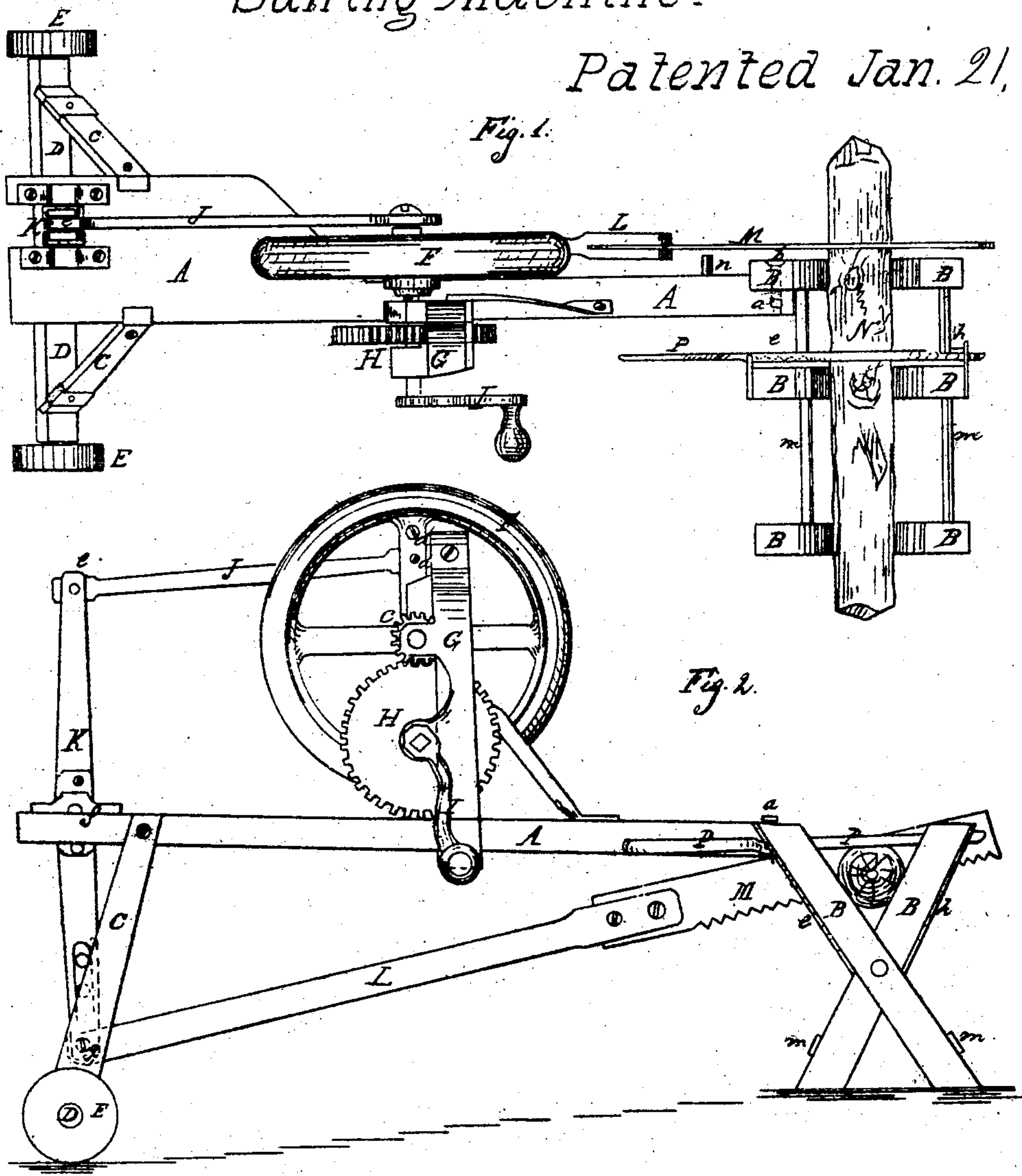


N^o 73520

J. Fry.
Sawing-Machine.

Patented Jan. 21, 1868.



Witnesses.

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United States Patent Office.

JOHN FRY, OF BROOKFIELD, ILLINOIS.

Letters Patent No. 73,520, dated January 21, 1868.

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, JOHN FRY, of Brookfield, in the county of La Salle, and State of Illinois, have invented a new and useful Improvement in Sawing-Machines; and I do hereby declare and make known that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and the letters and figures marked thereon, which form part of this specification.

I am aware that machines of a similar character for sawing fire-wood have been used heretofore, but my invention consists in prolonging the frame of the machine, or providing said frame with an arm, to which the saw-horse is attached, and in attaching said saw-horse to the said arm, in such a manner as to be readily removed when desired; the object of the said arm and removable saw-horse being to enable the machine to be used for the purpose of sawing logs up into butts or cuts of any desired length, as for mill-logs or cord-wood, as by removing the saw-horse, the arm or prolongation of the frame may be secured upon the log to steady the machine, which can then be operated as hereinafter described.

To enable those skilled in the art to understand how to make and use my invention, I will proceed to describe the construction and operation of the same with particularity, making reference in so doing to the aforesaid drawings, in which—

Figure 1 represents a plan or top view of my invention, and

Figure 2 is a side elevation of the same.

Similar letters of reference in the different figures denote the same parts of my invention.

A represents a horizontal frame or platform, supporting the operating parts of the machine, one end being secured to a saw-horse, B, upon which the wood to be sawed is placed, by means of a screw or bolt, *b*, which is removable, and the other end being supported by the standards C, which are secured upon the axle D of the trucks E, so that the machine may be moved from place to place by simply raising the other end of the machine, or it may be made so light and portable as to be carried from place to place by the operator, holding it under one arm.

F represents a fly or balance-wheel, supported upon suitable bearings in the standards G, and being provided at its centre with a pinion, *c*, into which the gear-wheel H engages, so that by turning the crank I, the said wheel F is revolved with the desired rapidity.

J represents an arm connecting the oscillating lever K, pivoted at *f* to the wheel F, at one of the points *d*, which are eccentrically arranged, so that the revolution of said wheel F, as aforesaid, will cause the desired reciprocating movement to the saw-holder L and saw M.

The saw-horse B consists of three sets of crossed bars of wood, upon which the stick of wood marked N is arranged as shown, being clamped firmly thereto by means of a lever, P, one end of which is inserted in one of a series of holes in a plate, *h*, attached to one side of the saw-horse, while the other, having been forced down firmly upon the stick of wood, is slipped under one of a series of ratchet-teeth upon a plate, *l*, upon the opposite side of the saw-horse, as shown in the drawings.

The stick of wood having been properly arranged and fastened to the saw-horse, the operator turns the crank I, and the saw soon cuts the stick in two, when it is readjusted, and secured in position, and the operation is repeated.

While the stick is being placed or adjusted upon the saw-horse, the saw is placed upon a rest or support, *n*, as it is also when the machine is being moved from place to place, as desired.

This machine may also be used to saw off or saw up logs into any desired lengths, for preparing cord-wood, stove-wood, or timber for the saw-mill. When used for this purpose, the saw-horse is dispensed with, the same being readily detached from the machine by removing the bolt *b*, which secures the two parts together. The end of the platform is then placed upon the log, at the place where the same is to be cut, and a removable spike, marked *a*, is then driven into the log, thus at once securing the machine in place, and attaching the log to the machine ready for the operation, which is effected as before described.

The trucks and truck-axles may be omitted if desired, the standards C, in such case, supporting the machine directly upon the ground.

Instead of the gearing herein described for imparting motion to the wheel F, any other suitable gearing or belting may be employed.

Having described the construction and operation of my invention, I will now specify what I claim, and desire to secure by Letters Patent.

I claim providing the frame of a portable sawing-machine with an arm or prolongation, so constructed and arranged, that a saw-horse can readily be attached to or detached from the same, as and for the purposes specified.

JOHN ^{his} X FRY.
mark.

Witnesses:

SAM'L D. WAUCHOPE,
C. S. BROWNELL.