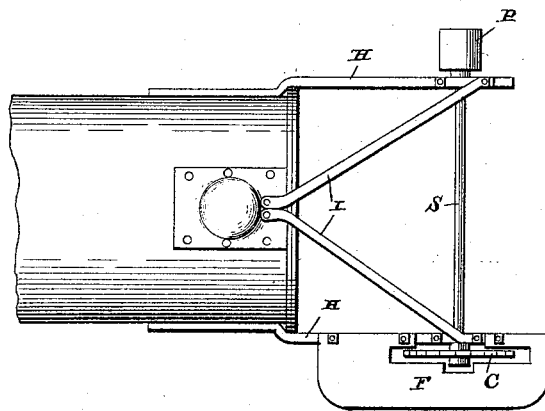
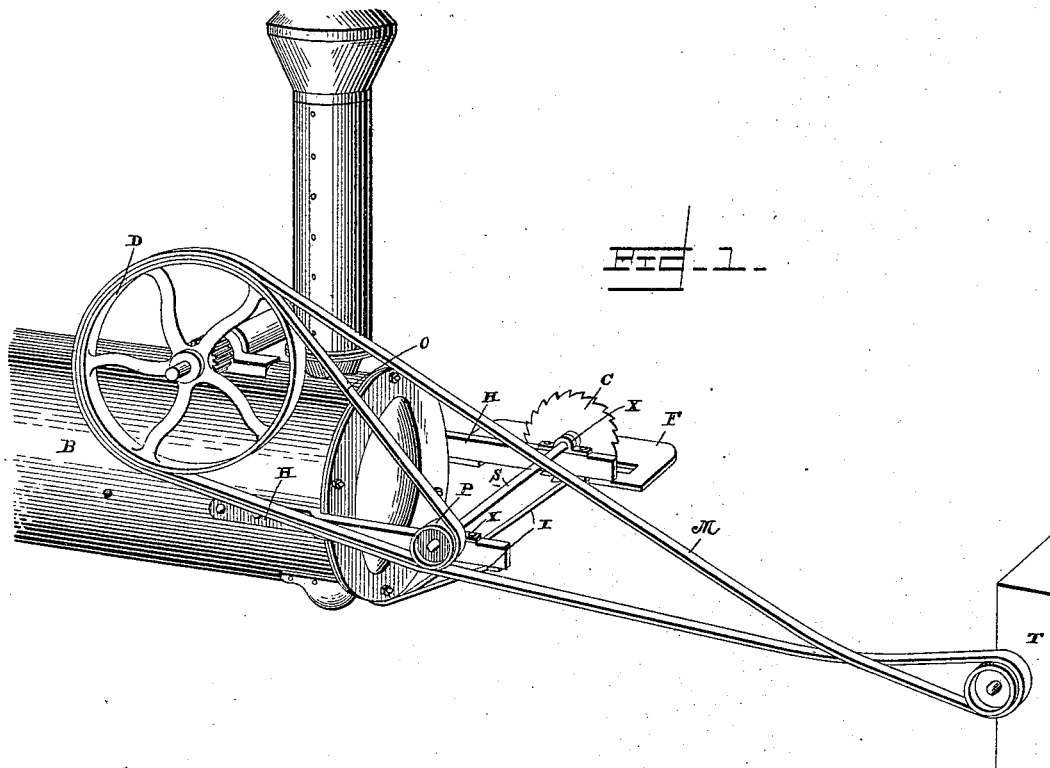


(No Model.)

J. A. WELLS.
SAWING MACHINE.

No. 490,696.

Patented Jan. 31, 1893.



Witnesses:

E. S. Duval & Co. By *his* Attorneys,
A. C. Colclamer

Inventor:

James A. Wells,

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

JAMES A. WELLS, OF LIBERTY, ASSIGNOR OF ONE-HALF TO JOHN H. RUMP,
OF QUINCY, ILLINOIS.

SAWING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 490,696, dated January 31, 1898.

Application filed December 24, 1891. Serial No. 416,087. (No model.)

To all whom it may concern:

Be it known that I, JAMES A. WELLS, a citizen of the United States, residing at Liberty, in the county of Adams and State of Illinois, have invented a new and useful Improvement in Sawing-Machines, of which the following is a specification.

This invention relates to wood-sawing, and more especially to machines for this work adapted to saw out fuel; and the object of the same is to produce a saw of this character which is attachable to the smoke box and boiler of a stationary or traction engine so that it will occupy but little room, be out of the way when not in use, be handy when it is desired for use, and be movable with the boiler when the latter is moved.

To this end the invention consists in the construction hereinafter more fully described and claimed, and as illustrated on the accompanying sheet of drawings, wherein—

Figure 1 is a perspective view showing the front end of an engine boiler with my improved saw attached thereto, and illustrating the manner of belting by which the saw is driven from the driving-wheel of the engine. Fig. 2 is a bottom plan view of the same omitting the driving-wheel and belting.

Referring to the said drawings, the letter B designates the boiler of an engine, D the driving-wheel thereof, M the main belt leading from the driving-wheel, and T a machine such as a thrasher to which the belt is to impart motion—these parts being of the ordinary and well-known construction. Bolted or riveted to the sides of the front end of the smoke box and the boiler are horizontal arms H in boxes X on which is journaled a shaft S carrying at one end a small pulley P and at the other end a circular saw C which turns through a table or other flat plate F carried by one of the arms H as seen. The latter are braced by inclined braces I extending from near

their outer ends beneath and secured to the boiler. Power is communicated to the pulley P by an operating-belt O which passes around said pulley and leads thence around the driving-wheel D under the main belt M as shown.

In use, whenever the machine is running the saw C will be rapidly rotated and kindling, fire, or other wood can be sawed thereby; but when it is desired to throw the saw out of use, the belt O can be slipped on or off, the pulley P and wheel D without stopping the motion of the latter. The whole device is strong but light, and obviously it is supported and carried by the smoke box and the boiler whether the latter is stationary or portable: hence the saw may be used to cut fire-wood for a traction engine while the same is moving over the road.

What is claimed as new is—

The combination with a steam engine and boiler, of horizontal bars secured to and projecting outwardly from the front end of the smoke-box and the boiler and arranged parallel, a flat plate connected to the under portion of one of the said bars and projecting at right angles therefrom in a horizontal plane, a saw-mandrel mounted on said bars having a saw on one end thereof relatively positioned to said plate and a small pulley on the opposite end of the same, and divergent braces having their inner converging ends secured to the under part of the front of the boiler and their outer ends attached to the opposite horizontal bars at the under side of the latter, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JAMES A. WELLS.

Witnesses:

H. F. BEYER,
B. B. BAREN.