2 Sheets--Sheet 1.

R. R. BOYD & H. G. FOX.

Sawing-Machine.

No. 160,256. Patented March 2, 1875.

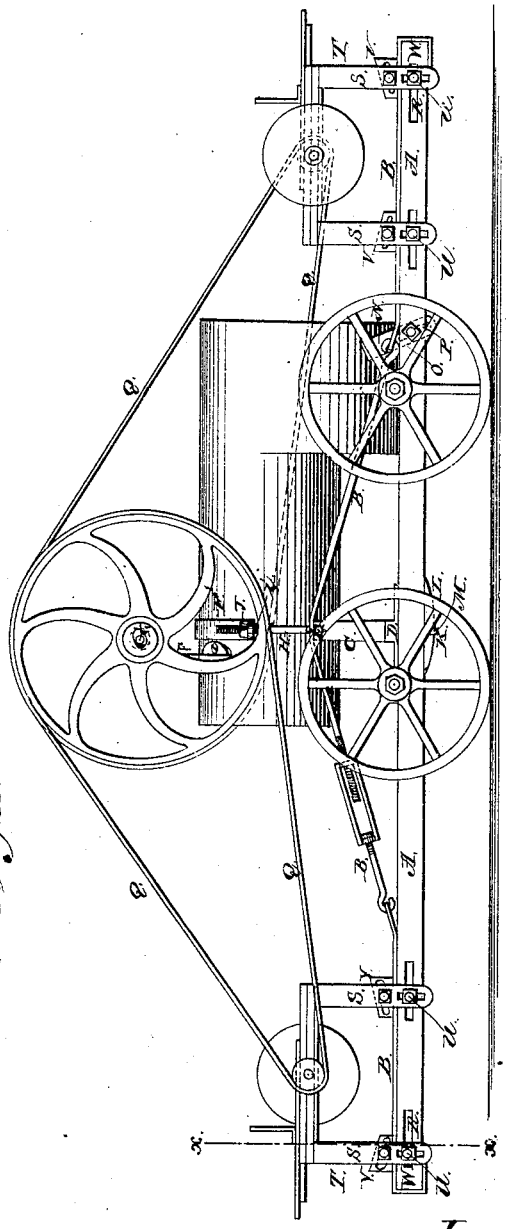

Fig. 1.

Attest:

Raphael Semmes Jr
M. J. Riley

Inventors:

Robert Riddle Boyd
Henry George Fox.

2 Sheets--Sheet 2.

R. R. BOYD & H. G. FOX.

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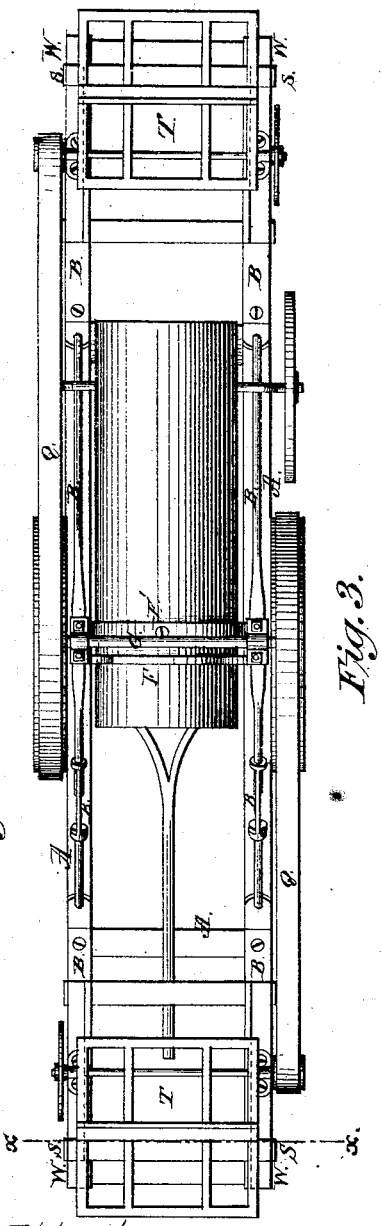

Fig. 2.

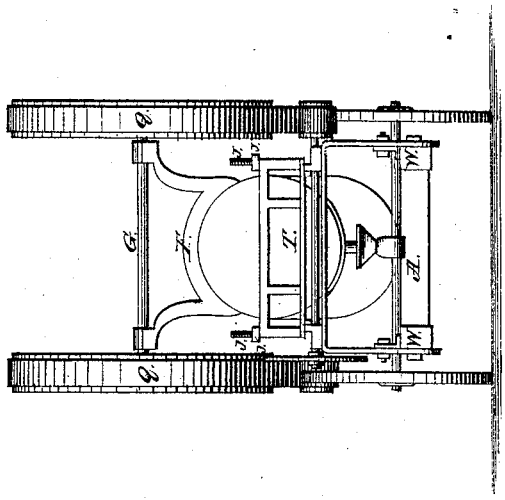

Fig. 3.

Attest:
Raphael Stennes Jr
M. G. Riley

Inventors:
Robert Riddle Boyd
Henry George Fox,

UNITED STATES PATENT OFFICE.

ROBERT R. BOYD AND HENRY G. FOX, OF MEMPHIS, TENNESSEE.

IMPROVEMENT IN SAWING-MACHINES.

Specification forming part of Letters Patent No. **160,256**, dated March 2, 1875; application filed March 19, 1874.

To all whom it may concern:

Be it known that we, ROBERT RIDDLE BOYD and HENRY GEORGE FOX, both residing in the county of Shelby, city of Memphis, and State of Tennessee, have invented an adjustable portable sawing-machine, to which may be attached a portable engine, and for adjusting any machinery to be operated by said engine, and for which purpose a platform is provided with slots and rods, and of which the following is a specification:

The first part of our invention relates to the construction of a carriage or platform of suitable dimensions and strength. The second part relates to the method of attaching the platform to the portable engine; and the third part relates to the method of tightening the belts by which the machinery is to be driven, all of which will be more fully hereinafter explained.

In the drawing forming part of this specification, Figure I is a side elevation of the machines, engine, and platform. Fig. II is a plan of the same. Fig. III is a vertical transverse section, showing those parts that embrace the invention.

A is the carriage or platform. B is the truss-rod, flattened at each end and in the center. C is the upright post. D is the plate on which rests the post C. E is the pin inserted in the post C, to hold in place the truss-rod B. F is the iron saddle, which passes over the boiler and under the driving-shaft G of the engine. H is the adjustable rod that passes through the hole I in the end of the shaft F′. These rods H are provided with threads and nuts J, to adjust the apparatus at any desired inclination. K is the hook at the lower ends of rods H, which support the entire weight of the carriage or platform A. L is the plate, with slot M, which is fastened to the lower side of the carriage A, and in the slots M rest the hooks K of rod H. N is a band of iron extending a short distance up each side of the boiler. O are the lugs of band-iron N, in which are slots P, to hold the carriage A at any desired angle of inclination. Q are the driving-belts. R are slots, one on each side near each end of the carriage A, in the side timbers W, to enable the machines to be adjusted to accommodate the length of belts Q. U are bolts that pass through the slots R in the legs S of the machine T, and also through the slots R in the carriage A. V are slotted wedges at the heel of legs S of the machine T.

By first loosening these parts and leveling up the engine, then leveling the carriage A by the adjustable rods H to the elevation desired, and to secure it in this position by fastening the nuts of slot P in lugs O of band-iron N, we secure the carriage A in any angle desired. Then, by adjusting the machines T to conform to the belts Q by tightening the nuts in slots R and S, and placing in position the slotted wedges V, the machines T will be properly adjusted for working.

We do not claim the engine, boiler, or the sawing-machines separately, or in combination with the carriage; but

What we claim is—

1. The combination of the carriage A, rods H, strap F′, nuts J, bands N, lugs O, and slots P, all constructed and operating as and for the purpose described.

2. The combination of slots R in timbers W of carriage A, bolts U, legs S of frame T, and slotted wedges V, all constructed as and for the purpose described.

ROBERT RIDDLE BOYD.
HENRY GEORGE FOX.

Witnesses:
RAPHAEL SEMMES, Jr.,
M. G. RILEY.