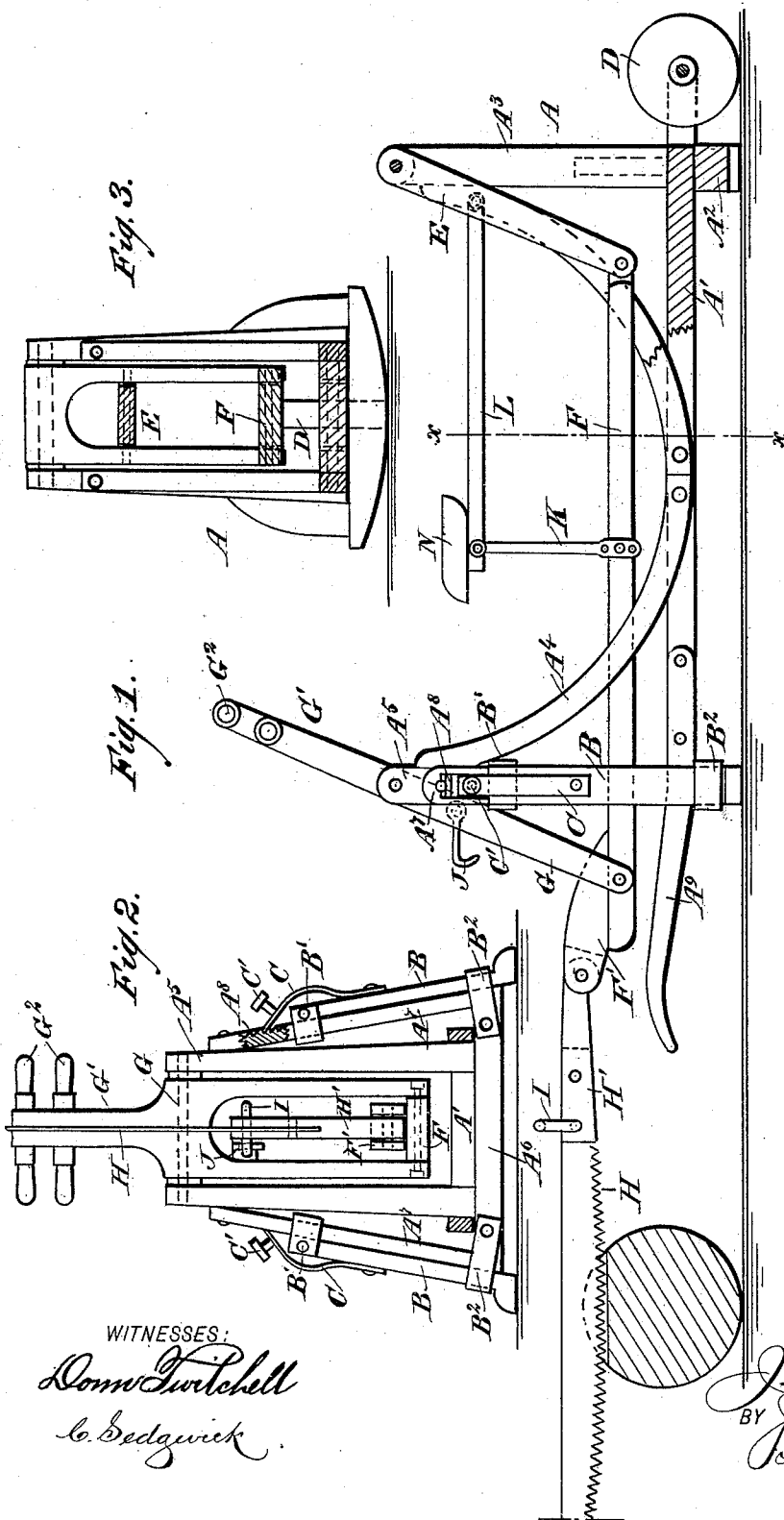


(No Model.)

J. B. & J. P. COAN.
SAWING MACHINE.

No. 463,097.

Patented Nov. 10, 1891.



WITNESSES:
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UNITED STATES PATENT OFFICE.

JOHN BADOLETT COAN AND JAMES PAUL COAN, OF VINCENNES, INDIANA.

SAWING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 463,097, dated November 10, 1891.

Application filed April 27, 1891. Serial No. 390,525. (No model.)

To all whom it may concern:

Be it known that we, JOHN BADOLETT COAN and JAMES PAUL COAN, of Vincennes, in the county of Knox and State of Indiana, have invented a new and Improved Sawing-Machine, of which the following is a full, clear, and exact description.

The object of our invention is to provide a new and improved sawing-machine which is simple and durable in construction and very effective in operation.

The invention consists of certain parts and details and combinations of the same, as will be hereinafter fully described, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the improvement, with parts in section. Fig. 2 is a front end view of the same, with parts in section and the saw in a raised position; and Fig. 3 is a transverse section of the improvement on the line *x x* of Fig. 1.

The improved sawing-machine is provided with a frame A, having a longitudinally-extending base-board A' supporting on the under side near one end a rocker A², extending transversely, and on which are erected the standards A³, connected by curved braces A⁴ with the base-board A' and with standards A⁵, erected on a cross-bar A⁶, secured to the under side of the base-board A' at its front end. The cross-bar A⁶ is connected at its ends by inclined arms A⁷ with the upper ends of the standards A³. On these arms A⁷ are held adjustable legs B, serving to raise and lower the front end of the frame according to the log to be cut.

Each of the legs B is provided on its upper end with a keeper B', fitted to slide on the respective arm A⁷, while the lower end of the leg is engaged by a keeper B², secured to the cross-bar A⁶. On each of the legs B is secured a spring C, extending with its free end above the respective leg to engage one of a series of notches A⁸ formed in the respective arm A⁷. Each of the springs C is formed at its free end with a handle C', serving to pull the free end of the spring out of one of the

notches A⁸ in raising or lowering the legs B on the arms A⁷. From the sides of the base-board A' extend forwardly handles A⁹, adapted to be taken hold of by the operator when transporting the sawing-machine from place to place. On the opposite or rear end of the base-board A' is journaled a wheel D, adapted to travel on the ground when the operator takes hold of the handles A⁹ and raises the same so as to lift the frame A off of the ground. The machine can then be pushed forward over the ground similarly to a wheelbarrow. In the upper ends of the standards A³ is pivoted a link E, pivotally connected at their lower ends with a platform F, extending horizontally in line with and above the base-board A'. The front end of the platform F is pivotally connected with a lever G, arranged parallel to the link E and pivoted in the upper end of the standard A⁵. The lever G extends upward above the standards, and this extension G' is formed with one or more sets of handles G², adapted to be taken hold of by the operator supported on the platform F. The front end of the platform F is also provided with a head F', pivotally connected with the handle H' of the saw H of any approved construction. On the handle H' is arranged a ring I, adapted to be engaged by a hook J, pivoted on the lever G and serving to hold the saw H in an uppermost position when the sawing-machine is to be transported from place to place, as previously described. When the saw is in this uppermost position, (illustrated in Fig. 2,) the handles A⁹ are unobstructed, so as to be taken hold of by the operator.

At or near the middle of the platform F are held one or more links K, extending upwardly and pivotally connected with an arm L, pivoted to the link E. On this arm L is supported a seat N, in which the operator working the sawing-machine is seated, resting his feet on the platform F and taking hold by his hands on the handles G². The seat N and connecting-supports may be omitted. The operator then stands on the ground to work the machine.

The machine is used as follows: The frame A rests on its rear end on the rocker A², the front end of the said frame being adjusted according to the size of the log to be sawed

and according to the unevenness of the ground. When the several parts are in the position shown in Fig. 1, the saw H is passed transversely across the log, and then the operator
 5 seats himself in the seat N and takes hold of the handles G² and pulls on the said handles, so as to impart a swinging motion to the lever G, whereby the platform is caused to rock forward and backward, assisted by the opera-
 10 tor, who follows with his body the motion imparted to the lever G, thus giving momentum to the said platform F. The saw H is thus readily dragged across the log and thereby cuts the same. The links K are made ad-
 15 justable on the platform G, so as to raise and lower the seat N to conveniently seat the operator.

It will be seen that the machine is very simple and durable in construction and can
 20 be readily moved about from place to place.

Having thus fully described our invention, we claim as new and desire to secure by Letters Patent—

1. In a sawing-machine, the combination,
 25 with a supporting-frame, of a link pivoted at one end in the upper part of the frame, a lever pivoted between its ends to the upper part of the frame and provided with handles at its upper end, a platform pivoted to the lower
 30 ends of the link and lever and adapted to be pivotally connected to a saw, and a seat carried by the platform, substantially as described.

2. In a sawing-machine, the combination,
 35 with a supporting-frame, of a link pivoted at its upper end to the frame, a lever pivoted between its ends at the opposite end of the frame and provided with handles at the upper end, a platform pivoted to the lower ends of the link and lever, upwardly-projecting links se-
 40 cured to the platform, an arm pivotally connected to the link pivoted to the frame and to the links secured to the platform, and a

seat on the said arm, substantially as herein shown and described.

3. In a sawing-machine, the combination, 45
 with a frame provided with sets of standards and legs for adjusting the front end of the said frame, of a link pivoted on one set of standards, a hand-lever pivoted on the other set of standards, arranged parallel with the
 50 said link, a platform pivotally connecting the said link with the said lever, and a head formed on the said platform and pivotally connected with the handle of the saw, substantially as shown and described. 55

4. A sawing-machine comprising a frame having a wheel mounted on one end and provided with handles projecting from the opposite end, a link having its upper end pivoted
 60 to one end of the frame, a lever pivoted to the other end of the frame at about its middle, a platform pivoted to the lower ends of the link and lever, and a seat carried by the platform, substantially as herein shown and described.

5. In a sawing-machine, the combination, 65
 with a frame provided at its rear end with a rocker and at its front end with independently-adjustable legs, of a link pivotally connected with the rear end of the said frame, a hand-
 70 lever pivotally connected with the front end of the said frame, a platform provided with a head and pivotally connecting the said link with the said lever, a saw pivotally connected with the said head, arms connected with the said link, rods connected with the said arms
 75 and supported from the said platform, and a seat supported on the said arms, substantially as shown and described.

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 JAMES PAUL COAN.

Witnesses:

JOHN G. DUNN,
 FRANK M. BROOKIN.