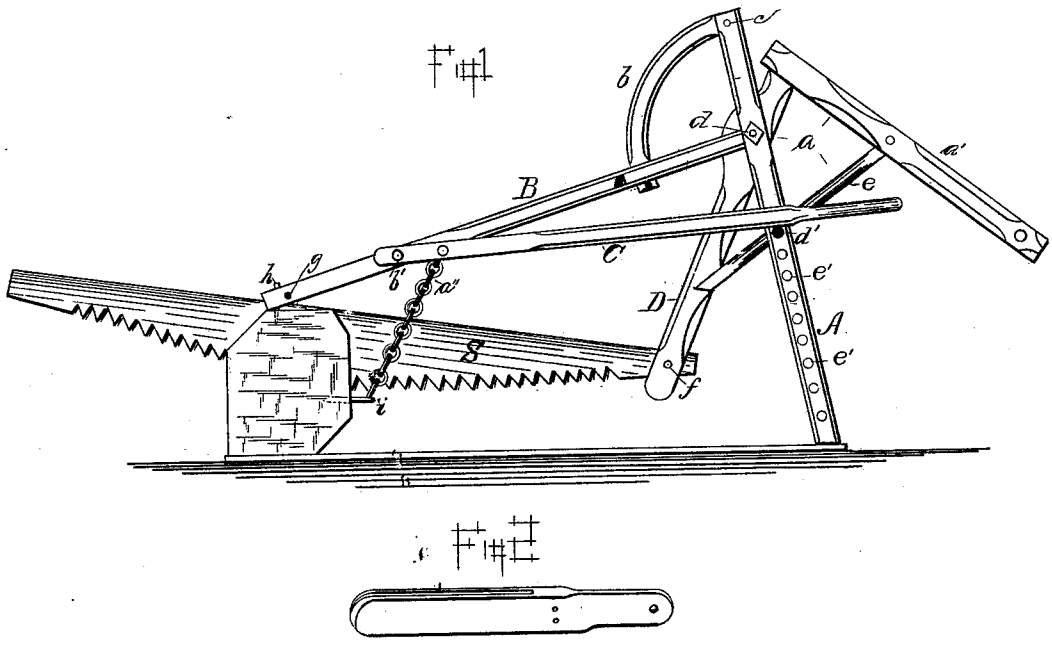
(No Model.)

M. B. SWINDELL.

Drag Saw.

No. 229,488. Patented June 29, 1880.



WITNESSES

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MOSES B. SWINDELL, OF KENTON, TENNESSEE.

DRAG-SAW.

SPECIFICATION forming part of Letters Patent No. 229,488, dated June 29, 1880.

Application filed March 24, 1880. (No model.)

To all whom it may concern:

Be it known that I, MOSES BARNETT SWINDELL, of Kenton, in the county of Obion and State of Tennessee, have invented certain new and useful Improvements in Drag-Saws; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention has relation to improvements in sawing-machines; and it consists of a standard having adjusting perforations and pin, a bracket and a holding-bar provided with a pointed or sharpened pin, and a bracing-lever chained or connected to a wedge or pointed eye, and the saw-handle pivoted to the upright or standard and having a hand-lever, substantially as hereinafter more fully set forth and claimed.

In the drawings, Figure 1 is a side elevation of my improvement. Fig. 2 is a detailed view of a modification of the saw-bar.

A represents a standard or derrick-shaped frame, whose uprights project toward each other at the top, but are there separated by the intermediate brace *b*. It is braced by the screw-bolt *c* at top, which projects through the brace and the standards, and by the screw-bolt *d*, which passes through the standards, guide, and saw-bar D, and secures them together.

a' marks the handle of the hand-lever *a*, which is mortised to the vertical saw-bar D and the connecting-bar *e*, which latter has bearings in a shoulder formed in the saw-bar.

The saw-bar D is pivoted in the frame A by the transverse bolt *d*, and is provided with a slit at bottom and orifice for pivoting the saw S by means of the screw-bolt *f*.

B marks the saw-guide, which is pivoted by the bolt *d*, as aforesaid, and mortised to the brace *b*. It is provided with a recess to admit the oscillation of the saw-bar, and with a slit as a guide to the saw, the transverse screw-bolt *g*, and also with vertical apertures for admission of pins or bolts *h*, for attaching the guide to the object to be operated upon.

C represents a chain-tightener, one of which may be placed on either side of the saw-guide. It has attached thereto the wedge or pin *i* for insertion into the log or other article to be sawed, which is secured to it by means of the chain and staple *a''*. It is pivoted by the bolt *b'* to the saw-guide. When it is lowered the chain is loosened, and when elevated the chain is tightened, and it is secured in position by the pin *d'*, which is thrust into one of the orifices *e'*, provided in the standard B, which operation, in connection with the vertical bolts or pins *h*, holds the object while operated upon rigidly in position.

I am aware that saws operated in a manner similar to my invention have been patented, as shown in the patents of H. H. Miller, No. 165,748, and Fagan, No. 216,663; but the construction of my invention is such that nearly all the force applied to operate it is economized, the friction being but nominal and the impelling force directed upon the same plane as the saw. Besides it can be constructed at but little cost, but little force is required to operate it, and its novel and substantial frame is a guarantee against accident.

What I claim is—

The frame consisting of the standard-frame A, guide B, secured by brace *b*, and handle-lever *a*, and connecting-bar *e*, in combination with the saw S, substantially as herein shown and described.

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

M. B. SWINDELL.

Witnesses:
JO. MCLESKEY,
C. A. BLAKE.