

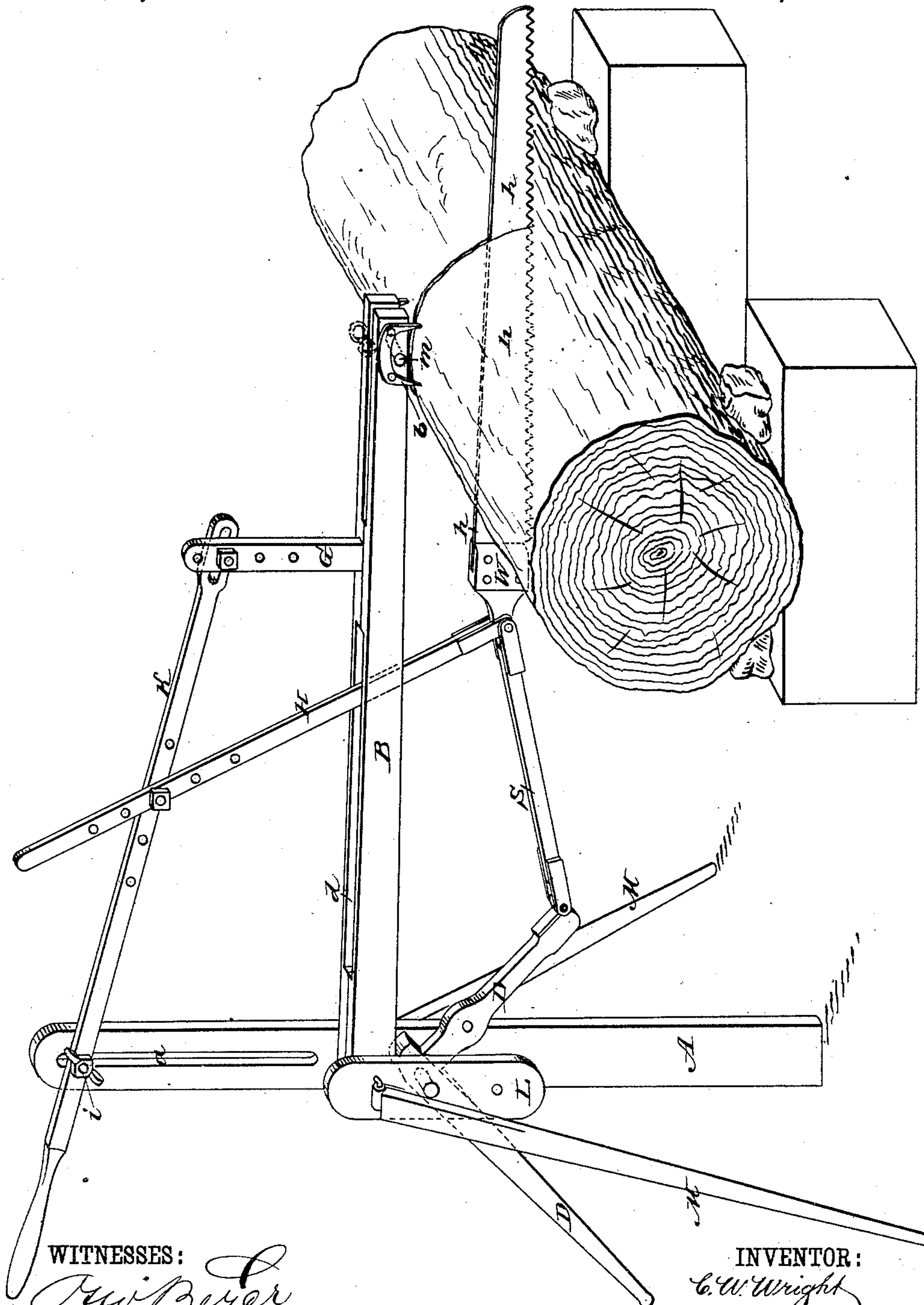
(No Model.)

C. W. WRIGHT.

DRAG SAW.

No. 353,109.

Patented Nov. 23, 1886.



WITNESSES:

Wm Beyer
C. Sedgwick

INVENTOR:

C. W. Wright

BY

Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

CORNELIUS W. WRIGHT, OF DEMOCRACY, OHIO.

DRAG-SAW.

SPECIFICATION forming part of Letters Patent No. 353,109, dated November 23, 1886.

Application filed June 18, 1886. Serial No. 205,545. (No model.)

To all whom it may concern:

Be it known that I, CORNELIUS W. WRIGHT, of Democracy, in the county of Knox and State of Ohio, have invented a new and Improved Portable Drag-Saw Machine, of which the following is a full, clear, and exact description.

My invention relates to portable drag-saw machines; and it consists in the combination of the parts, as will be hereinafter fully described and claimed.

Reference is to be had to the accompanying drawing, in which the figure represents a perspective view of my machine in operation.

A represents a vertical standard, in the upper end of which is cut a long slot, *a*. Rigidly secured thereto and at right angles therewith is a horizontal beam, B, provided at its extreme end with U-shaped irons *b*, having pointed ends to engage the log in process of sawing to prevent vibration of the machine.

The beam B is provided with a slot, *d*, extending a sufficient distance therein to allow ample play for the lifting-bar H, which is pivoted to an adjusting-lever, K, which lever K is slotted at one end and pivoted to a small standard, G, attached to the upper face of the beam B, the other end being provided with a handle, whereby the said lever is guided by means of a pin, *i*, in the slot *a* of the standard A. The pin *i* is threaded at one end and provided with a winged thumb-screw to secure the lever K at the desired inclination within the slot.

L is a plate secured to the beam B upon the side opposite the standard A. Between this plate L and the standard A, and pivoted therein, is an angular lever, D, the long arm of which is formed into a handle, whereby is operated the saw *h* through the medium of a connecting-bar, S. This connecting-bar is hinged to the short arm of the lever D at one end, and is provided with a recess at the other, which recess is adapted to receive and cover the lower recessed end of the lifting-bar H, and together they are pivoted by the same pivot-bolt to the handle of the saw *h*. The beam B is recessed at its free end to receive the saw in transportation, and the pin *m*, passing through

the beam, supports the saw therein. I also place two staples on top of the beam, near the end—one on either side of the recess cut therein—through which a pin can be slid, if desired, to provide another or higher support for the saw.

Attached to the side plate, L, and the standard A are hinged braces M M, to hold the machine at various inclinations, made necessary by the inequality of the ground and the difference in size of the logs to be sawed.

The adjusting-lever K and the lifting-bar H are each provided with a series of pin-holes at their point of juncture, as is also the small standard G, to which the said lever K is pivoted at one end, to admit of ready adjustment in controlling the saw.

In operation, the machine, when brought upon the ground, is set up and properly stayed to the desired inclination by the side braces, and the U-shaped irons upon the extreme end of the beam B are brought in contact with the log. The pin supporting the saw is then withdrawn, bringing the saw in engagement with said log. By means of the long arm of the angular lever D, which forms a handle, the saw is operated through the medium of the connecting-bar S, and as the saw travels through the log it is adjusted to the depth of cut by the adjusting-lever K and lifting-bar H. In the process of sawing the saw moves substantially upon a level.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a portable drag-saw machine, the combination, with a frame consisting of the standard A, longitudinal beam B, provided with a U-shaped iron, *m*, at one end, the plate L, secured to said longitudinal beam B, and the hinged braces M, of the angular lever D, pivoted between the plate L and standard A below said beam, the connecting-rod S, and lifting-bar H, the said lifting-bar and connecting-rod slotted at their ends and pivoted by the same pivot-bolt to a saw-handle, substantially as herein set forth.

2. In a portable drag-saw machine, the combination, with a frame consisting of the standard A, longitudinal beam B, and plate L, of

the hinged braces M, attached to said standard and plate, and the U-shaped irons *m*, attached to the free end of the said beam, substantially in the manner and for the purpose herein set forth.

5 3. In a portable drag-saw machine, the combination, with the standard A, having slot *a*, and the beam B, having the slot *d* and small standard G, of an adjusting-lever, K, a thumb
10 screw, *i*, in said lever entering said slot *a* of

the standard A, and the lifting-bar H, adjustably pivoted to said adjusting-lever K at one end and slotted to receive a saw-handle at the other end, substantially as shown and described, and for the purpose herein set forth.

CORNELIUS W. WRIGHT.

Witnesses:

NANCY WALKEY,
EMMA PARRISH.