

(No Model.)

H. T. BASIM.

LOG TURNER.

No. 334,330.

Patented Jan. 12, 1886.

Fig. 1.

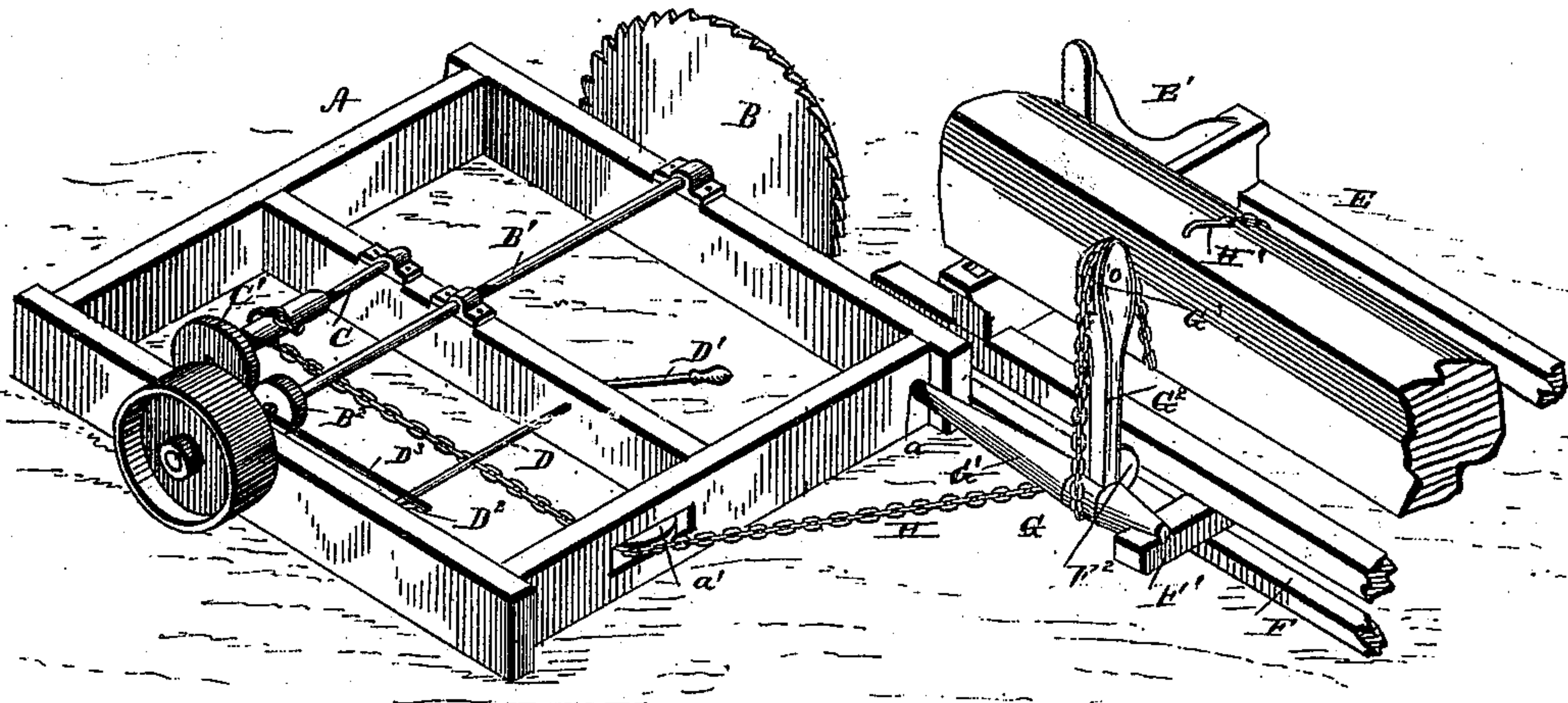


Fig. 2.

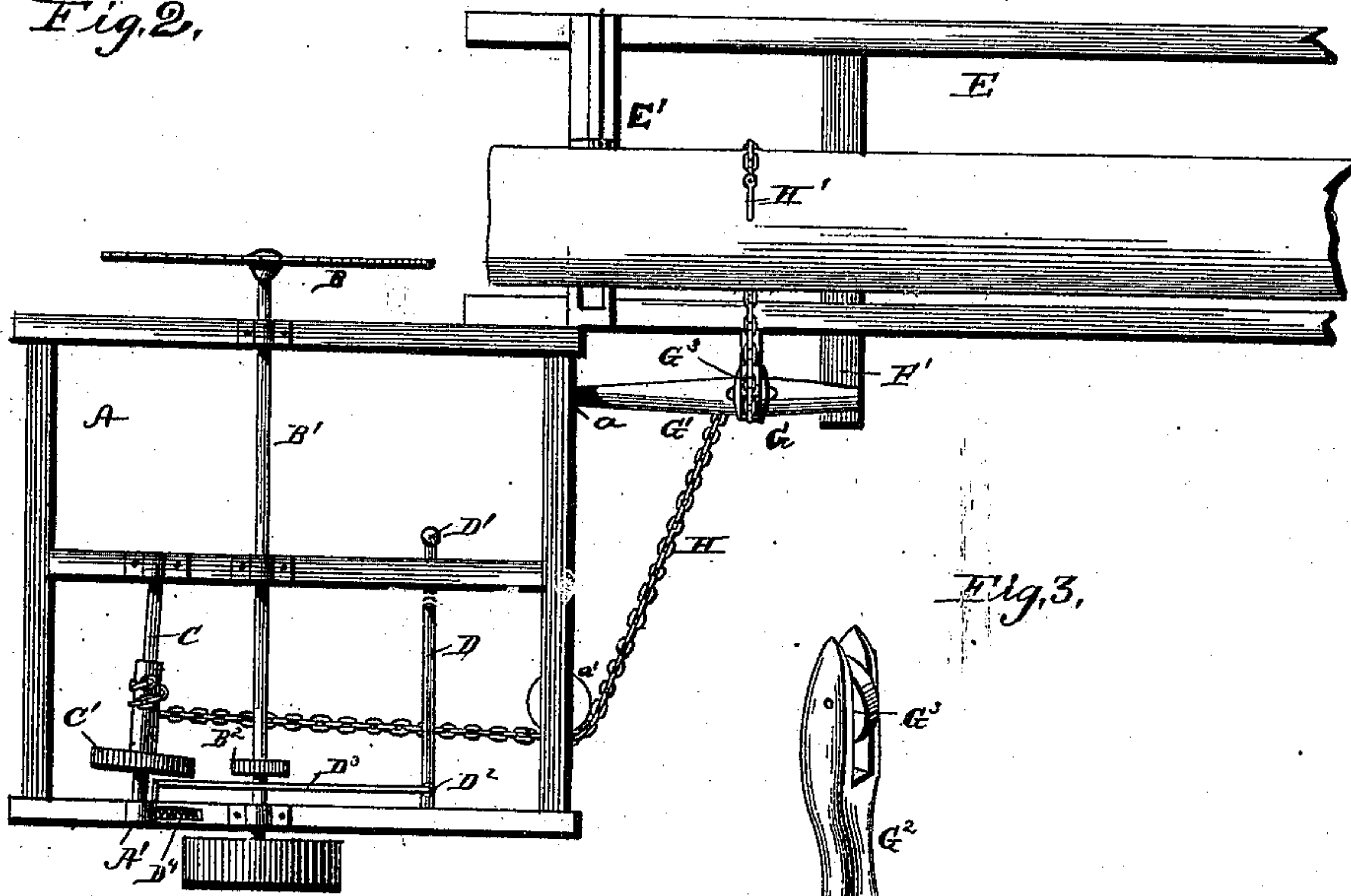
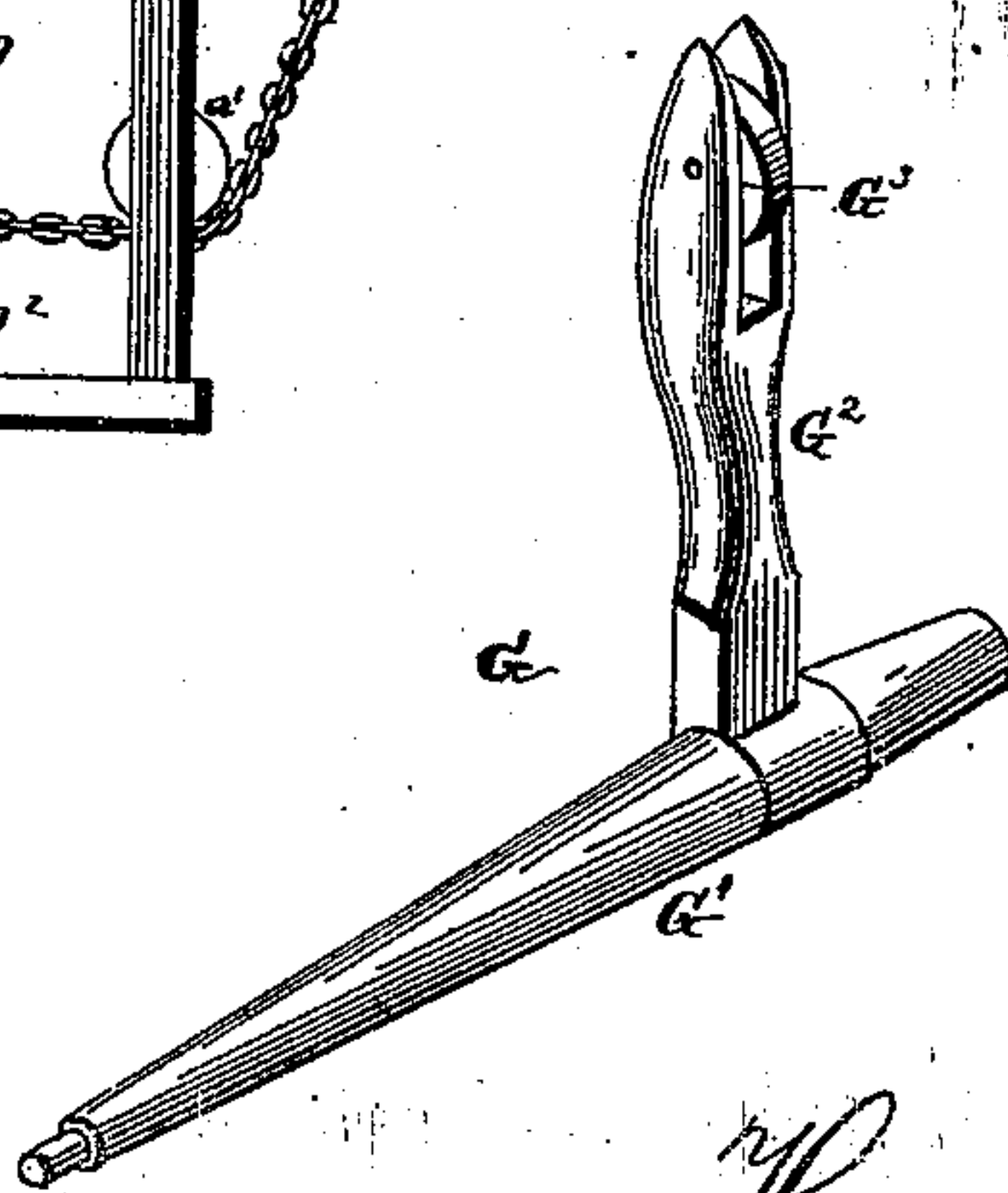


Fig. 3.



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# UNITED STATES PATENT OFFICE.

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## LOG-TURNER.

SPECIFICATION forming part of Letters Patent No. 334,330, dated January 12, 1886.

Application filed June 19, 1885. Serial No. 169,154. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY T. BASIM, a citizen of the United States, and a resident of Decaturville, in the county of Washington and State of Ohio, have invented certain new and useful Improvements in Portable Saw-Mills; 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 appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to portable saw-mills; and it consists more particularly in the improved construction and combination of parts of an attachment or apparatus adapted to turn the log, when required, and also hold the same firmly against the head-block until it has been secured in its adjusted position by the saw-mill dogs, as will be hereinafter fully described, and pointed out in the claims.

Referring to the annexed drawings, Figure 1 is a perspective view of my improved portable saw-mill. Fig. 2 is a top plan view of the same; and Fig. 3 is a detail view, in perspective, of a part of the attachment, which will be hereinafter described.

The same letters of reference indicate corresponding parts in all the figures.

Referring to the several parts by letter, A represents the frame which supports the circular saw B and its arbor B' in operative position, the saw-arbor being provided near its inner end with a friction-wheel, B<sup>2</sup>, for the purpose hereinafter described. In the frame A is also journaled a shaft, C, lying parallel to the saw-arbor B', and provided with a friction-wheel, C', lying in the same plane as the friction-wheel B<sup>2</sup> on the saw-arbor, that end of the said shaft near which the friction-wheel C' is secured being journaled in a sliding box, A', while the aperture in which its other end is journaled is sufficiently large to prevent the shaft from binding when the sliding box A' is moved by its operating-lever to one side, for the purpose hereinafter set forth. In the front portion of the frame A is journaled a transverse shaft, D, provided with an operating-handle, D', and having near its inner end a short arm or projection, D<sup>2</sup>, to which is pivoted one end

of a pitman, D<sup>3</sup>, which is pivotally connected at its other end to the forward end of the sliding box A', in which one end of the shaft C is journaled, a spring, D<sup>4</sup>, serving to slide the box A' back when the handle D' is elevated, as shown in Fig. 2 of the drawings, thereby freeing the friction-wheel C' from contact with the friction-wheel B<sup>2</sup> on the saw-arbor, which, when the handle D' is depressed, as in Fig. 1, wheel C' is brought into contact with the arbor-wheel B<sup>2</sup>, so that the revolutions of the saw-arbor will operate to rotate the shaft C, for the purpose hereinafter specified.

E represents the log-carriage, having the usual head-block, E', and F indicates the track or frame upon which the said carriage travels. At the side of this frame F is placed the attachment G, consisting of the horizontal body portion G', the rear reduced end of which enters a rounded aperture, a, in the end of the frame A, while its other and larger end is supported upon the end of the tie F' of the frame F and the arm G<sup>2</sup>, having journaled in its free end the roller or pulley G<sup>3</sup>, this arm G<sup>2</sup> being placed in a vertical position when the attachment is in its operative position.

H represents a chain, one end of which is secured to the shaft C, the chain then passing under a pulley, a', in the forward part of the frame A, thence under a similar pulley, F<sup>2</sup>, secured to the side of the frame F in about the same horizontal plane as the pulley a', thence up and over the pulley G<sup>3</sup> in the upper end of the arm G<sup>2</sup>, down between the said arm and the log, under and around the log, with the hook H', which is secured to its free extremity, inserted in the log at the point shown.

It will be seen that when it is desired to turn the log, and the free end of the chain has been attached to it in the manner shown and just described, it is only necessary to lower the handle D' of the shaft or lever D, thereby bringing the friction-wheel C' on the shaft C into contact with the friction-wheel B<sup>2</sup> on the saw-arbor, as shown in Fig. 1 of the drawings, when the revolutions of the saw-arbor will operate to revolve the shaft C, thereby winding up the chain H on the same and turning the log as desired, the chain also serving to hold the log firmly in its adjusted position until it has been secured by the usual saw-mill dogs.



By raising the handle D' the turning attachment is disconnected from the saw-arbor, and the arm G<sup>2</sup> of the attachment G may be then turned down out of the way.

5 From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of my invention will be readily understood without requiring further explanation.

10 It will be seen that my improved device is simple in construction, and therefore not liable to break or get out of order, while at the same time it is very efficient in its operation. It is very portable, and may be readily set up in  
15 operative position, may be employed to roll the logs on the blocks as well as turn them, and will hold the log firmly in position until it is secured by the dogs.

Having thus described my invention, what  
20 I claim, and desire to secure by Letters Patent of the United States, is—

1. The combination, with a saw-mill frame having a suitable hoisting or winding mechanism, of a log-turner consisting of a horizontal  
25 body portion and an upright arm rigidly secured thereto, the upper end of said arm being provided with a pulley, a pulley secured

beneath said horizontal body portion, and between it and the log-carriage, and a chain passing from said winding mechanism over  
30 said pulleys and around the log, substantially as and for the purpose set forth.

2. The combination, with a portable saw-mill provided with a suitable hoisting or winding mechanism, of a log-turner consisting of a  
35 horizontal body portion and an upright arm secured thereto, one end of which body portion rests in a hole in the saw-mill frame and the other rests upon a support without the frame, the free end of said arm being slotted  
40 and provided with a pulley, a pulley journaled horizontally in the end of the saw-mill frame, a pulley secured to the track below said body portion, and a chain passing from said  
45 winding mechanism around said pulleys and around the log, substantially as and for the purpose set forth.

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

HENRY THOMAS BASIM.

Witnesses:

JOHN T. HULL,  
ISAAC L. SHRADER.