

S. KELLER.

Log-Turners for Saw-Mills.

No. 153,346.

Patented July 21, 1874.

Fig. 1.

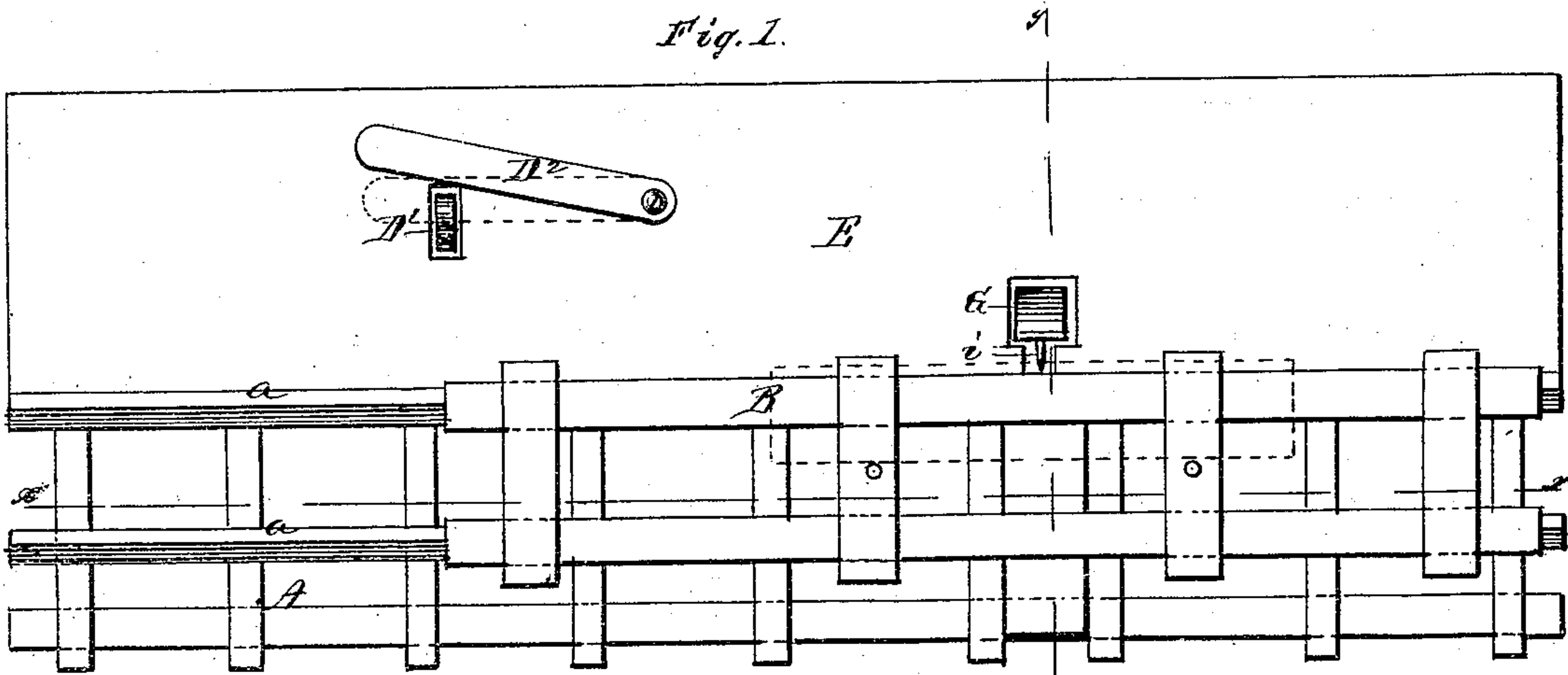


Fig. 2.

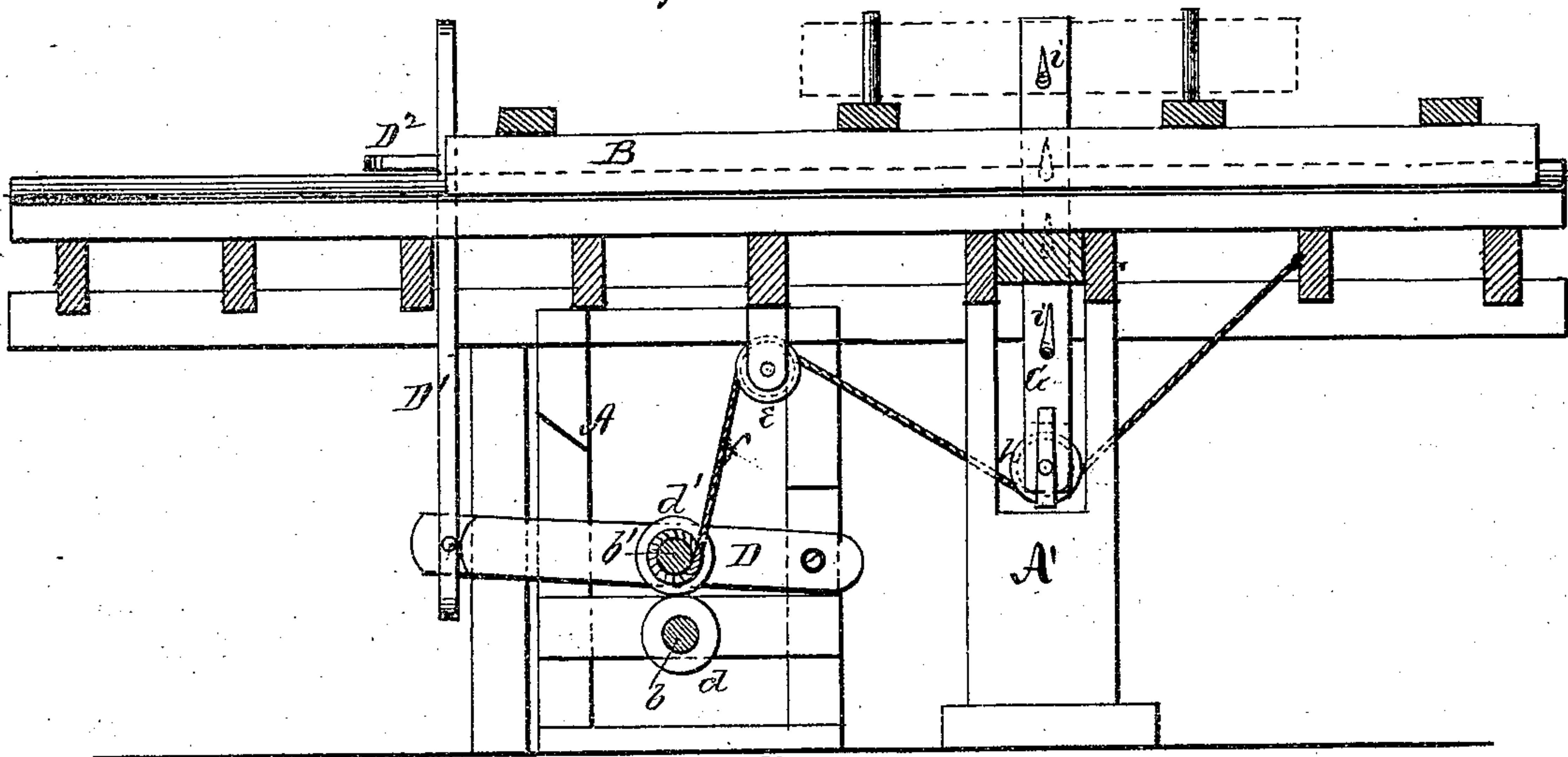
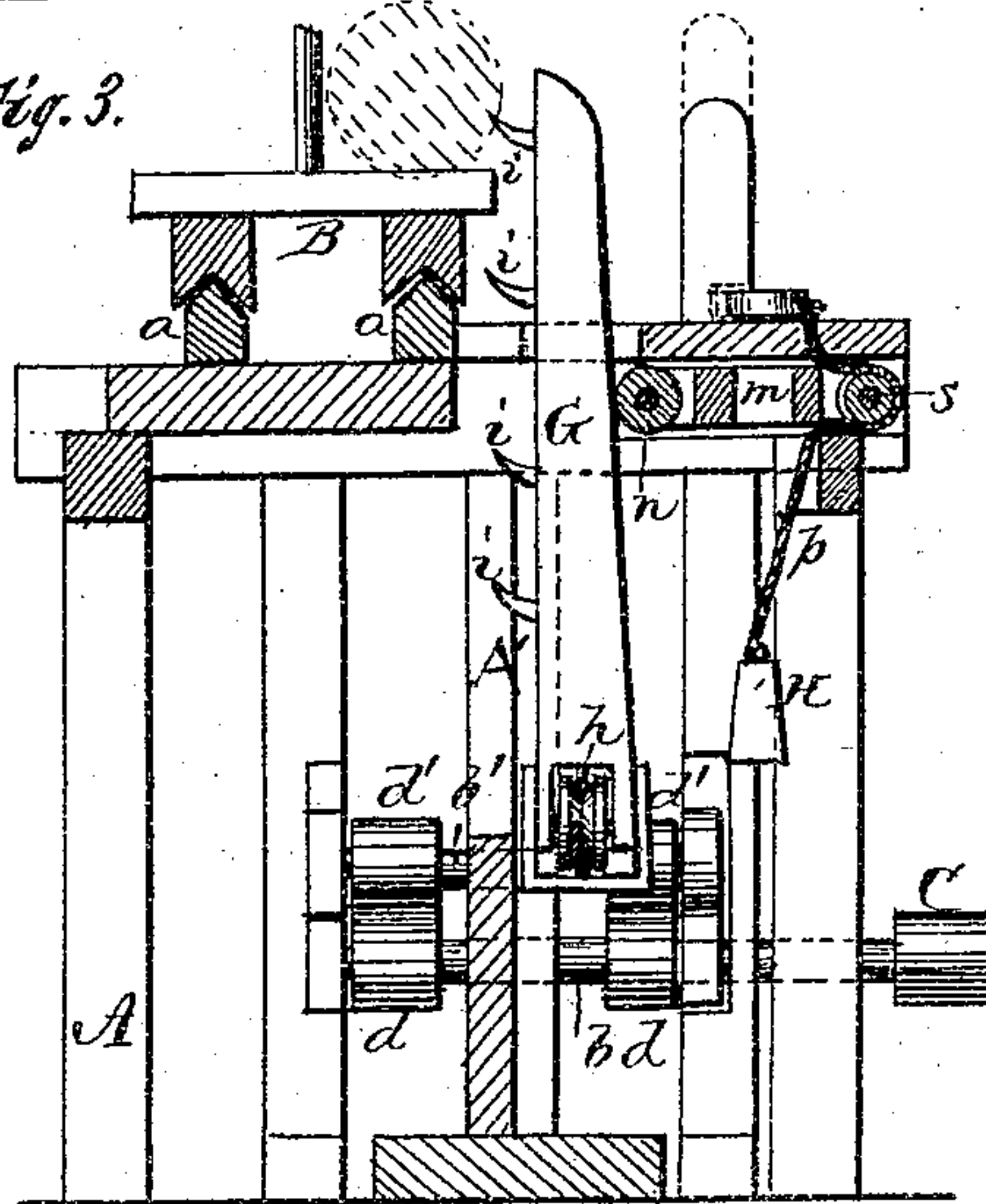


Fig. 3.



WITNESSES:

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## IMPROVEMENT IN LOG-TURNERS FOR SAW-MILLS.

Specification forming part of Letters Patent No. **153,346**, dated July 21, 1874; application filed June 12, 1874.

*To all whom it may concern:*

Be it known that I, SIMON KELLER, of York, in the county of York and State of Pennsylvania, have invented certain new and useful Improvements in Saw-Mills; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, which form a part of this specification.

The nature of my invention consists in the construction and arrangement of a device for canting logs upon the movable carriage of a saw-mill, as will be hereinafter more fully set forth.

In the accompanying drawing, Figure 1 is a plan view of so much of a saw-mill as will illustrate my invention. Figure 2 is a longitudinal vertical section of the same through the line *x x*, Fig. 1, and Fig. 3 is a transverse vertical section through the line *y y*, Fig. 1.

A represents the frame of a saw-mill, with guides *a a*, upon which moves the log-carriage B, and A' guide-standard for bar G. In the lower part of the frame A, at a suitable point, is a horizontal cross-shaft, *b*, provided on one end with a crank, C, for turning the same, and upon said shaft are secured two pulleys, *d d*. Above the shaft *b* is another shaft, *b'*, provided with two pulleys, *d' d'*. One end of the shaft *b'* has a stationary bearing in the frame A, while the other end has its bearing in a lever, D, pivoted at one end to the frame and the other end placed in the slotted lower end of a bar, D<sup>1</sup>, which passes up through the saw-table E on top of the frame A. The bar D<sup>1</sup> is notched at a suitable point, so that when raised up it can be held by a latch, D<sup>2</sup>, which is pivoted on top of the saw-table and may be thrown into said notch. When the bar D<sup>1</sup> and lever D are raised the pulleys *d'* are elevated above the pulleys *d*; but when the bar and lever are held down the pulleys are thrown in contact with each other, so that by turning the crank C the shaft *b'* will also be revolved. To the shaft *b'* is attached a

cord, *f*, which passes up and over a pulley, E, in the top part of the frame A, then down and under a pulley, *h*, in the lower end of an upright sliding bar, G, and the other end of the rope is fastened to the top part of the frame. The bar G passes up through a mortise in the saw-table E and is upon the side nearest the carriage B provided with a series of curved sharp-pointed teeth, *i i*. While the log is being sawed the bar G should be sunk below the top of the saw-table, and when it is desired to cant the log the pulleys *d d'* are first thrown in gear, as above described, and then the crank C, whereby the cord *f* is wound up on the shaft *b'*, which raises the bar G so that the hooks or teeth *i* thereon will catch on the log and turn the same over. The bar G is held up against the log by means of slide *m*, under the saw-table E, provided with a friction-roller, *n*, at one end bearing against the back of the bar, and said slide held against the bar by means of a weight, H, attached to a cord, *p*, said cord passing around a pulley, *s*, in the slide and attached to the frame, as shown in Fig. 3.

I am aware that a device for turning logs, operated by a cord and friction-rollers, has been before used, and I do not, therefore, broadly claim such device; but

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

The guide-frame A', pulley *h*, and sliding toothed bar G, with teeth *i*, in combination with cord *f*, pulleys *e, d d'*, bar D, lever D<sup>1</sup>, slide *m*, roller *n*, pulley *s*, cord *p*, and weight H, all constructed and arranged as and for the purpose specified.

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

SIMON KELLER.

Witnesses:

H. C. SCOTT,  
G. J. FERRISS.