

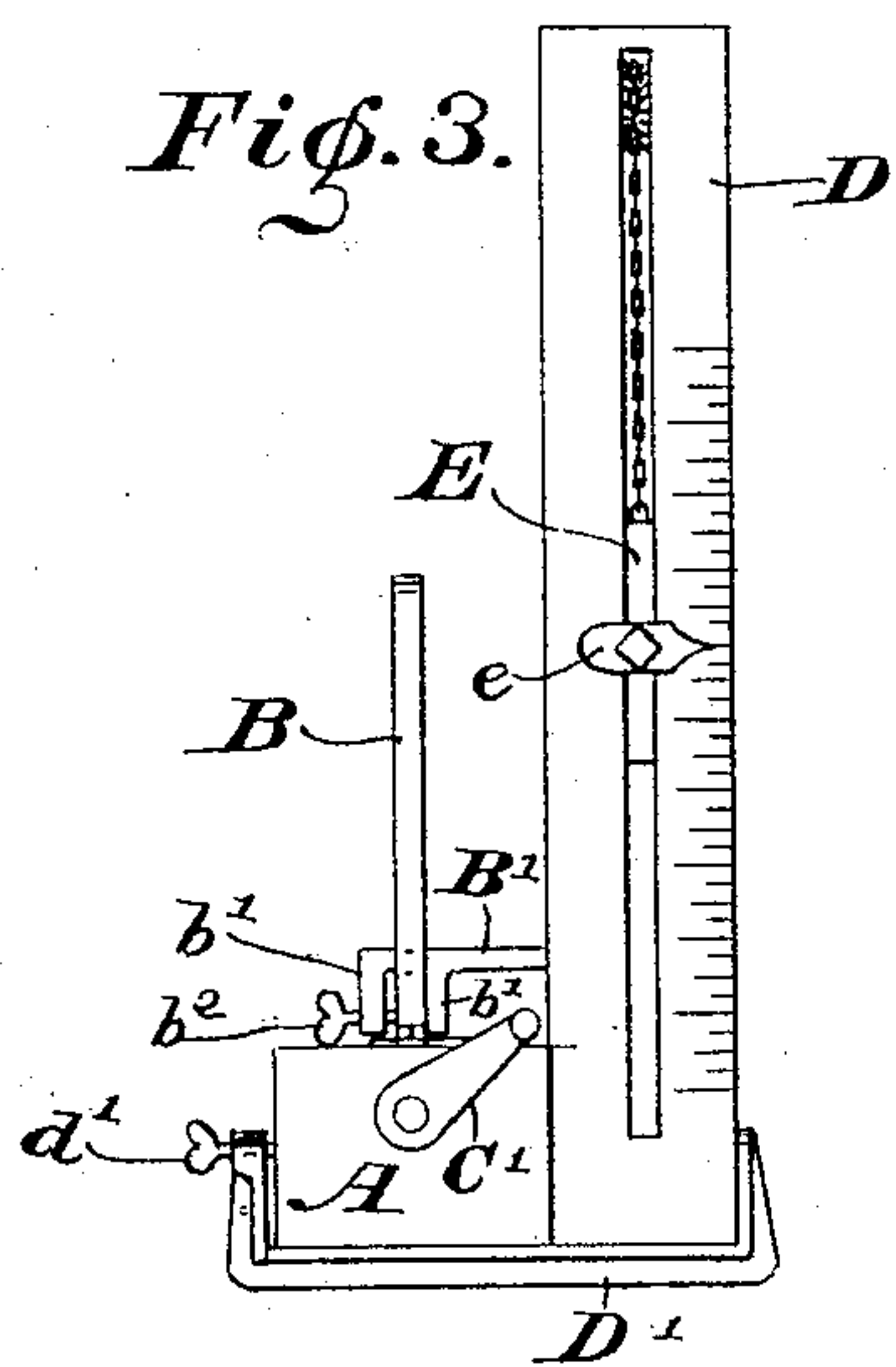
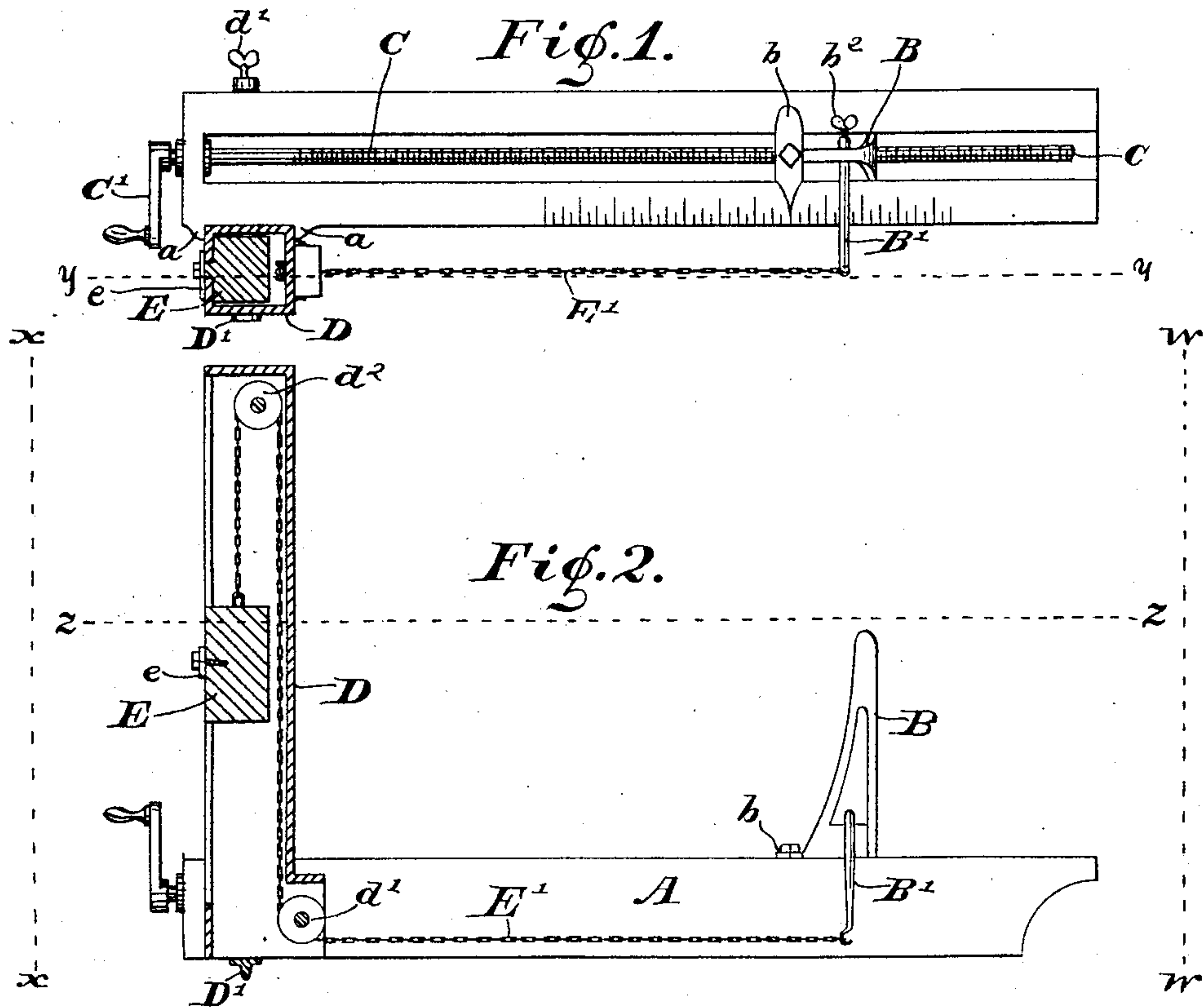
(No Model.)

L. W. FORBES.

INDICATOR ATTACHMENT FOR SAW MILL HEAD BLOCKS.

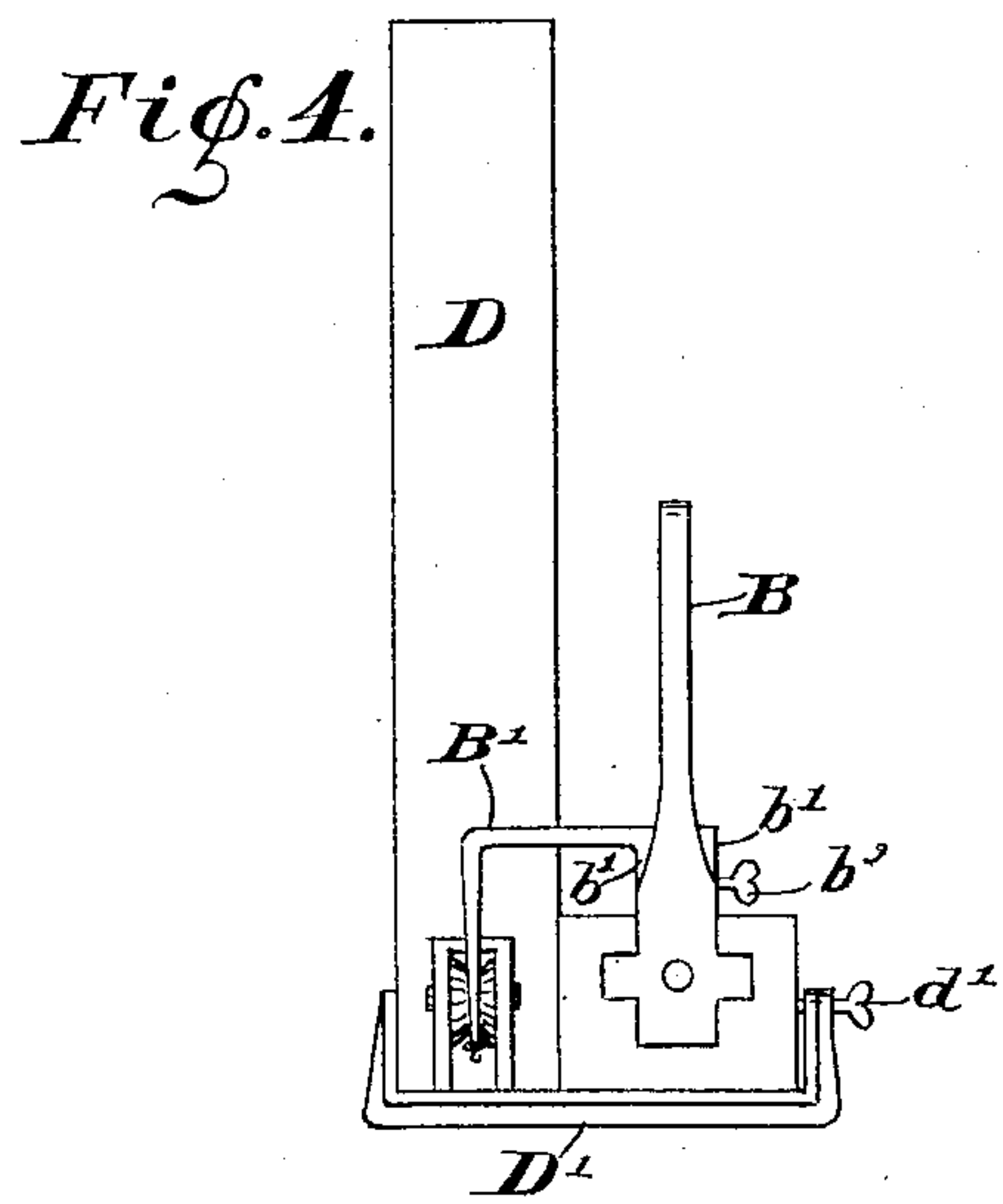
No. 316,532.

Patented Apr. 28, 1885.



WITNESSES.

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INVENTOR.

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UNITED STATES PATENT OFFICE.

LORENZO W. FORBES, OF WILKINSON, INDIANA.

INDICATOR ATTACHMENT FOR SAW-MILL HEAD-BLOCKS.

SPECIFICATION forming part of Letters Patent No. 316,532, dated April 28, 1885.

Application filed July 29, 1884. (No model.)

To all whom it may concern:

Be it known that I, LORENZO W. FORBES, of the town of Wilkinson, county of Hancock, and State of Indiana, have invented certain
5 new and useful Improvements in Indicator Attachments for Saw-Mill Head-Blocks, of which the following is a specification.

The object of my said invention is to provide means whereby the position of the movable head-block of a saw-mill can be determined by the operator from the position where he stands, while effecting the movement as well as from a position alongside said head-block. This object is accomplished by providing a
15 vertical post at the rear of the base of the head-block, within or alongside of which a weight provided with an indicator-point may move, said weight being connected to said movable head-block by means of a chain or cord running over suitable sheaves, and said post being provided with indicator or scale marks corresponding to those on top of the head-block base and post, which marks the said weight moves as it passes up and down.

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts, Figure 1 is a view looking downwardly from the dotted line *z z* in Fig. 2, showing the
30 upright post and weight in section, and the portions comprising the usual head-block and its operating mechanism in top plan; Fig. 2, a view looking upwardly from the dotted line *y y* in Fig. 1, showing the post and weight in
35 vertical section and the other parts in side elevation; Fig. 3, an end elevation of the device as seen from the dotted line *x x*, and Fig. 4 an elevation of the other end as seen from the dotted line *w w*.

In said drawings, the portions marked A represent the usual base of a head-block for circular-saw mills; B, the head-block mounted thereon; C, the operating screw or rod; D, the upright post or casing of my improved indicator attachment, and E the vertically-moving weight therein. The several parts A, B, and C may be of any usual or desired construction, and as they constitute no part of my present invention will not be further described
50 herein, except incidentally in describing the invention.

To the head-block B is secured an arm, B', which extends out over and down alongside the base A, and to which is secured the chain or cord by which the weight D is operated. 55 This arm is secured in position on the head-block by any suitable means, so as to be held rigidly in place. I have found that to construct two parallel lugs, *b'*, on its inner end, which are adapted to pass astride of a portion 60 of the head-block, and provide one of the lugs with a thumb-screw, *b''*, is a desirable means of making this attachment.

The post D is preferably constructed hollow, as shown, and bears at its lower and upper 65 ends, respectively, the sheaves *d'* and *d''*, over which the cord or chain E' passes. It is secured to the base A of the head-block by means of a clamp, D', or otherwise, and is adapted to support and carry the weight E. Preferably, the lugs *a* are formed on the base A, between which the lower end of this post D can be placed; but where the device has been previously constructed without these lugs small pins may be inserted in their place, or they 75 may be dispensed with altogether, as the post can be secured in place by the clamps D' alone without other fasteners. On its face this post is provided with the usual scale or indicator marks, as shown in Fig. 3, by which, as the 80 indicator-point *e* is moved past them, the position of the head-block B is indicated.

The operation of my said invention is as follows: The post D having been secured to the base A, and the weight E having been connected to the head-block B by means of the chain or cord E', and the arm B' in such relation that the indicator-points *b* and *e* are at corresponding points on the scales marked upon the base A and post D, respectively, 90 the operator in operating the head-block through the screw-rod C, by means of the crank C', is enabled to determine the position of the head-block B as well by the scale directly in front of him on the post D as he would by 95 leaving his position and going to a point where he could look directly down upon the indicator *b*. By this means considerable trouble and time is saved in the operation of setting the head-blocks, as will be readily understood 100 by those familiar with the art.

When it is desired to remove my attach-

ment, it can be readily done by unscrewing the thumb-screw d' in the clamp D' , and the thumb-screw b^2 in the arm B' , when said arm and said post, together with the parts attached thereto, can be readily taken away. These parts can also be replaced at pleasure and without difficulty.

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

1. The combination, with a saw-mill head-block, of a supplemental indicating device consisting of a post attached to the rear portion of the head-block base, provided with sheaves and a weight moving within or alongside said post, and a flexible connection running from said weight over said sheaves to the head-block, whereby as said head-block is removed back and forth said weight will be raised or lowered, and the position of the head-block indicated thus thereby, substantially as set forth.

2. The combination, in a saw-mill head-block, of the base A thereof, the head-block proper, B , means of moving the same, the post D , for supporting the weight, the weight E , mounted upon said post, and a rope or chain connecting said weight and said head-block, substantially as and for the purposes set forth.

3. The combination of the base, the head-block, the post D , secured to said base, and provided with scale or indicator marks upon its face, and a weight, E , supported by and moving within or alongside said post, and provided with an indicator-point, e , and a flexi-

ble connection running from said weight over sheaves or bearings in said post to said head-block, substantially as shown and specified.

4. The combination of the base, the head-block thereon, means of operating the same, the post D , the weight E upon said post, the arm B' on said head-block, and the chain or cord E' , connecting said arm and said weight, substantially as set forth.

5. The combination of the base A , having scale or indicator marks on its surface, the head-block B , having indicator-point b , the screw-rod C , the post D , secured to the base A by the clamp D' , and having similar marks and sheaves, d' and d^2 , and the weight E , provided with indicator-point e , and connected to the arm B' by the chain or cord E' , which runs from said weight over said sheaves to said arm, substantially as set forth.

6. A saw-mill indicator consisting of a vertical standard secured to the traveling carriage of the mill, and provided with scale or indicator marks upon its face, and a vertically-moving digit working in said standard over the scale, and flexibly connected with and operated by the adjustable head-block of the traveling carriage.

In witness whereof I have hereunto set my hand and seal, at Indianapolis, Indiana, this 4th day of July, A. D. 1884.

LORENZO W. FORBES. [L. S.]

In presence of—

C. BRADFORD,

CHAS. L. THURBER.