

(No Model.)

W. H. PROUTY.
SAW MILL DOG.

No. 450,035.

Patented Apr. 7, 1891.

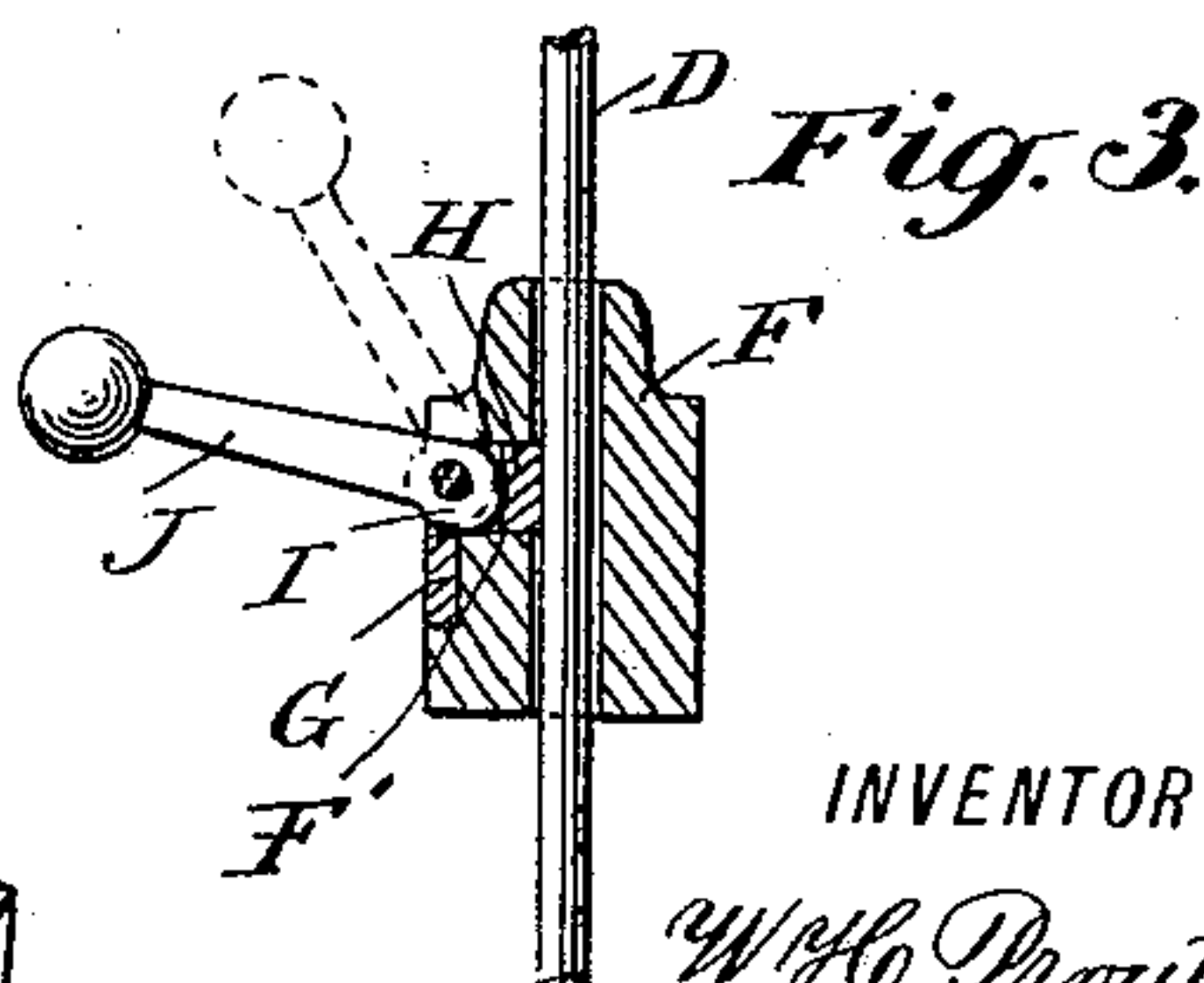
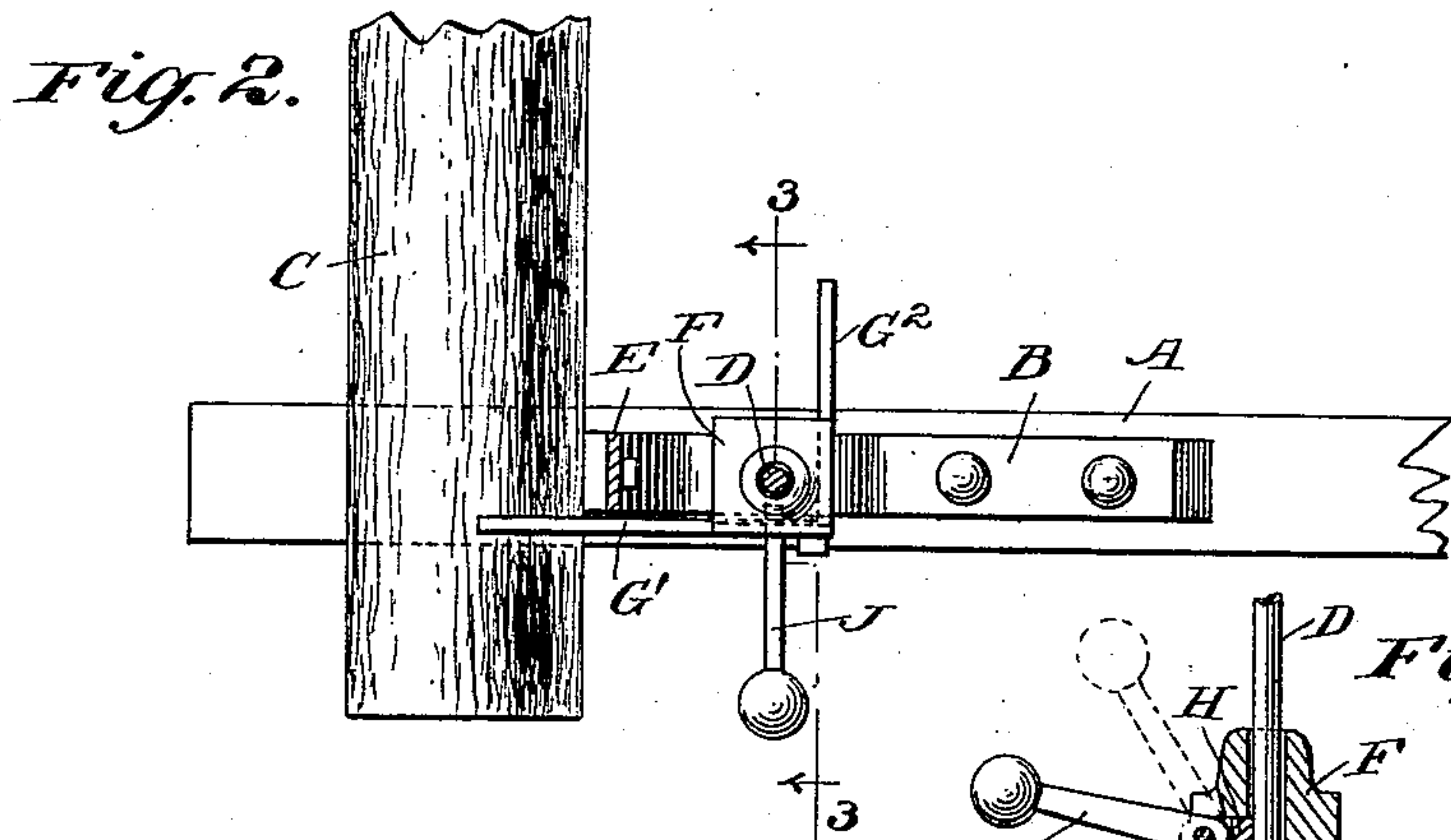
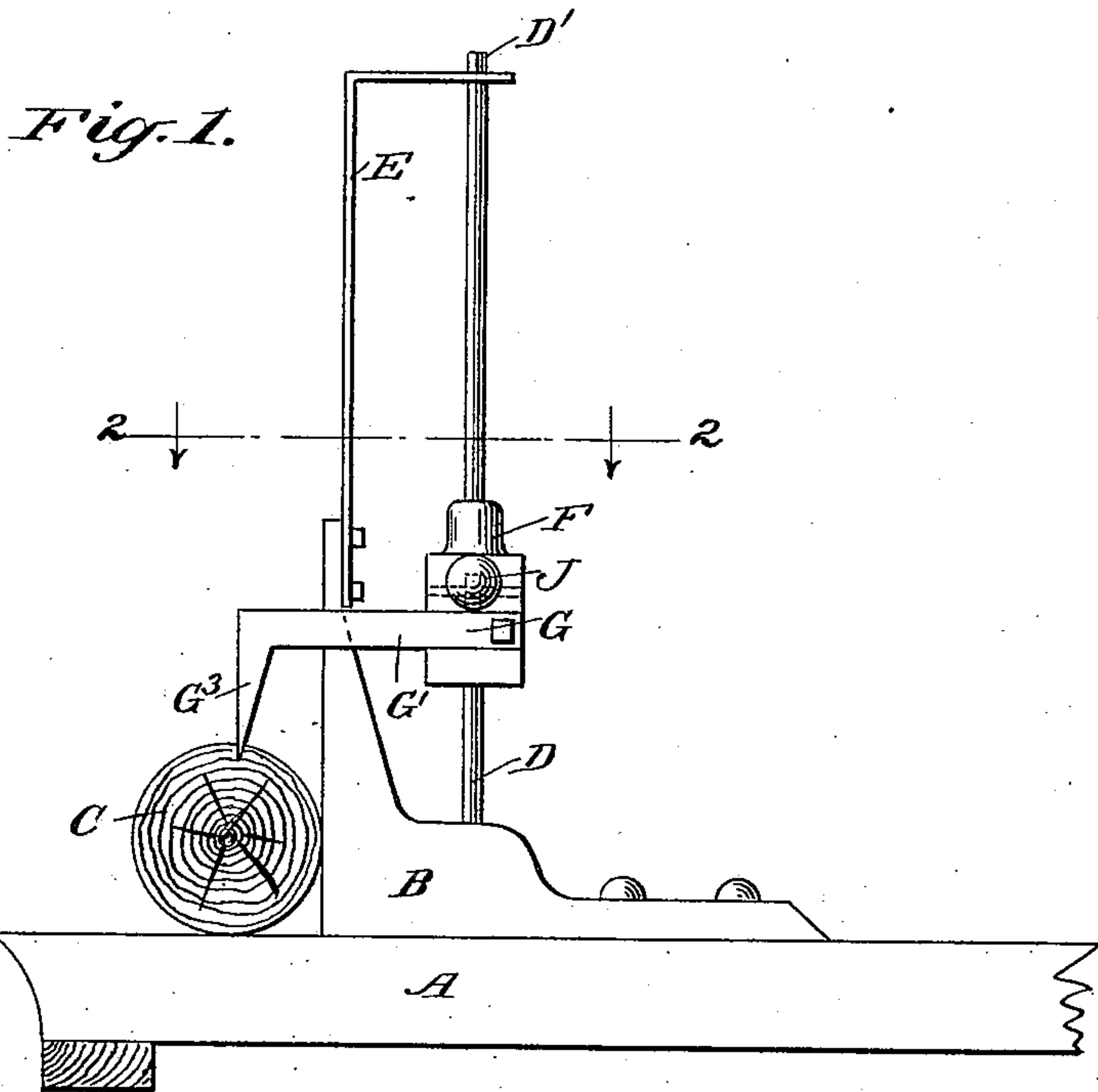
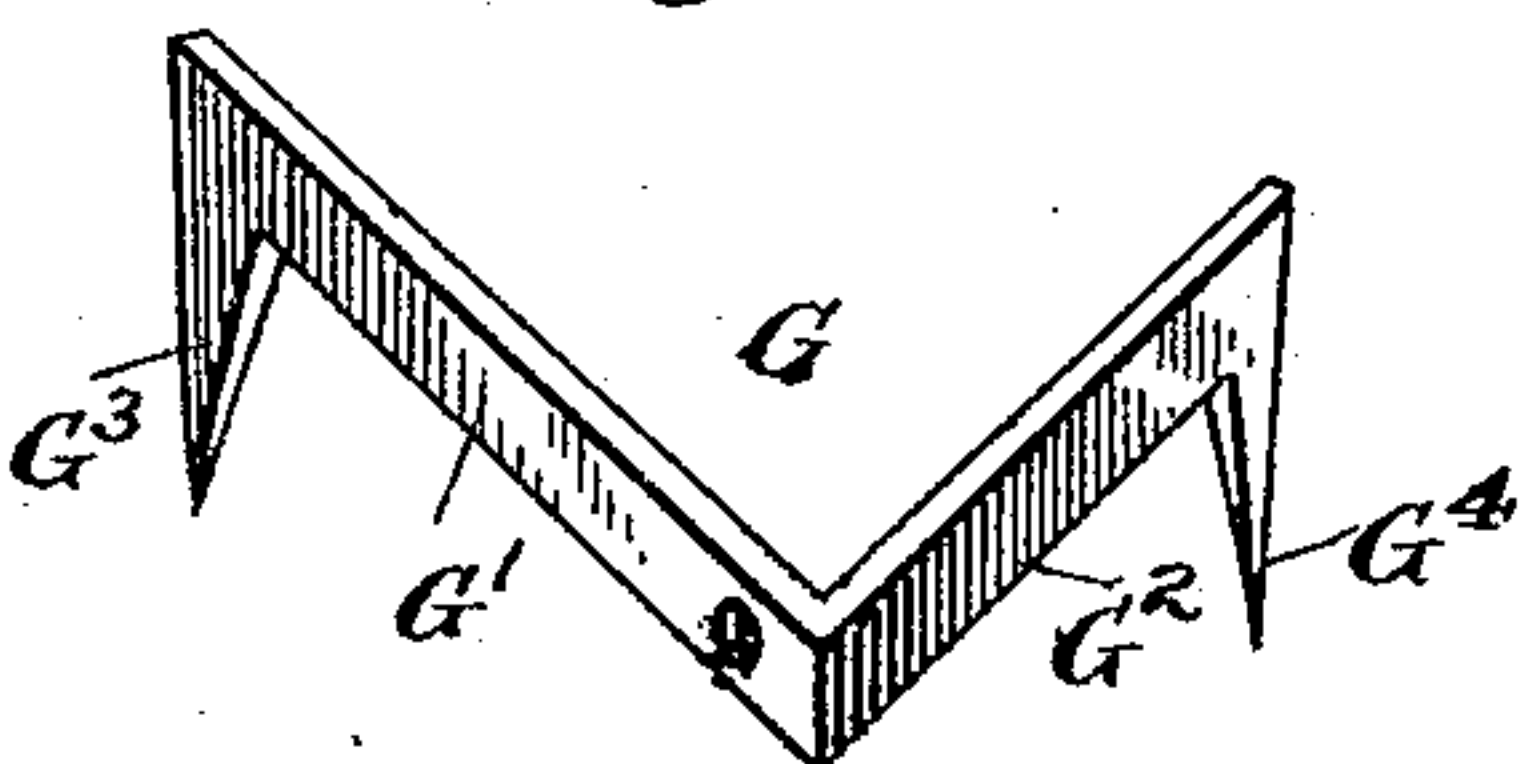


Fig. 4.



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WILLIAM H. PROUTY, OF WORTHVILLE, NEW YORK.

SAW-MILL DOG.

SPECIFICATION forming part of Letters Patent No. 450,035, dated April 7, 1891.

Application filed July 31, 1890. Serial No. 360,500. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. PROUTY, of Worthville, in the county of Jefferson and State of New York, have invented a new and Improved Saw-Mill Dog, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved saw-mill dog which is simple and durable in construction, can be readily connected with or disconnected from the log, and is adapted to engage the log near the middle on top or on the last cut.

The invention consists of a dog proper having two arms standing at right angles and a block fitted to slide vertically and to turn and on which the said dog proper is mounted.

The invention also consists of certain parts and details and combinations of the same, as will be hereinafter fully described, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the improvement. Fig. 2 is a sectional plan view of the same on the line 2 2 of Fig. 1. Fig. 3 is a transverse section of the same on the line 3 3 of Fig. 2, and Fig. 4 is a perspective view of the dog proper.

The head-block A of the saw-mill is provided with the usual knee B, against which the log C is rolled, resting on the head-block A. In the rear of the knee B is secured the lower end of a vertically-arranged rod D, having its upper square end D' fastened in a bracket E, bolted or otherwise fastened to the upper end of the knee B, near the front end of the same. On the rod D is mounted to turn and to slide a block F, having its lower part made square, and on two sides of which is fastened the dog proper G, provided with two arms G' and G², standing at right angles to each other. The arms G' and G² are provided with the points G³ and G⁴, respectively, adapted to engage the log C. The arm G' is somewhat longer than the arm G², and is adapted to engage the log near the middle on the top, while the shorter arm G² is adapted to engage only the last cut of the log.

In the block F is formed an opening F', in

which is fitted a key H, adapted to rest with its inner surface against the rod D and adapted to be pressed against on its opposite or outer side by the cam I, formed on the fulcrum end of a lever J, fulcrumed on the block F and extending into the recess F'. The outer end of the lever J is preferably weighted, so that the lever J in its normal position stands about horizontally, thus pressing the cam I against the key H, so that the latter is forced onto the rod D, and the block F is thereby locked in position on the said rod D.

The device is used as follows: As shown in Figs. 1 and 2, the long arm G' of the dog G engages with its point G³ the log C in the middle and on the top, the block F being locked in place on the rod D by the lever J engaging the key H. Now when it is desired to disconnect the dog proper G from the log C after a number of cuts have been made from the log then the operator raises the lever J, so that the cam I is disconnected from the key H, thereby unlocking the block F from the rod D. When the lever J stands in about a vertical position, the operator pulls on the lever, so as to raise the block F with the dog G, thereby disengaging the point G³ from the log C. When the operator drops the lever J, the latter swings into a horizontal position, so as to again lock the block F, with the dog G, in place, thus holding the dog ready for another log, if desired. When the operator desires to make use of the short arm G² to engage the last cut on the log, he raises the lever J to unlock the block F from the rod D, and then gives a quarter-turn to the lever J, so as to turn the block F on the rod D until the short arm G² rests against the rear edge of the bracket E. When the operator now drops the block F, as previously described, the point G⁴ of the arm G² engages the last cut on the log. It is understood that the block F, with the dog G and the lever J, is sufficiently heavy, so that when dropped the respective point G³ or G⁴ of the dog proper engages the log C sufficiently to hold the latter in place. It is further understood that when the arm G' engages with its point G³ the log C then the said arm rests against the front side of the knee B or the bracket E, according to the size of the log. In a similar man-

ner the arm G² rests on the rear side of the knee B or the bracket E when the said arm is in use on the last cut of the log.

It will be seen that this saw-mill dog can
5 be readily handled and locked in place in either an engaged or disengaged position on the rod D.

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

1. In a saw-mill dog, the combination, with a revoluble block fitted to slide, of a dog proper secured on the said block and having arms standing at right angles to each other,
15 substantially as shown and described.

2. In a saw-mill dog, the combination, with a rod, of a revoluble block fitted to slide on and adapted to be locked in place on the said rod and a dog proper secured on the said

block and provided with two arms standing 20 at right angles to each other, each having a point, and of which arms one is longer than the other, substantially as shown and described.

3. In a saw-mill dog, the combination, with 25 a rod, of a revoluble block fitted to slide on and adapted to be locked in place on the said rod, a dog proper secured on the said block and provided with two arms standing at right angles to each other, each having a point, and 30 of which arms one is longer than the other, and means, substantially as described, for locking the said block on the said rod, substantially as shown and described.

WILLIAM H. PROUTY.

Witnesses:

FRED E. WRIGHT,
W. W. REED.