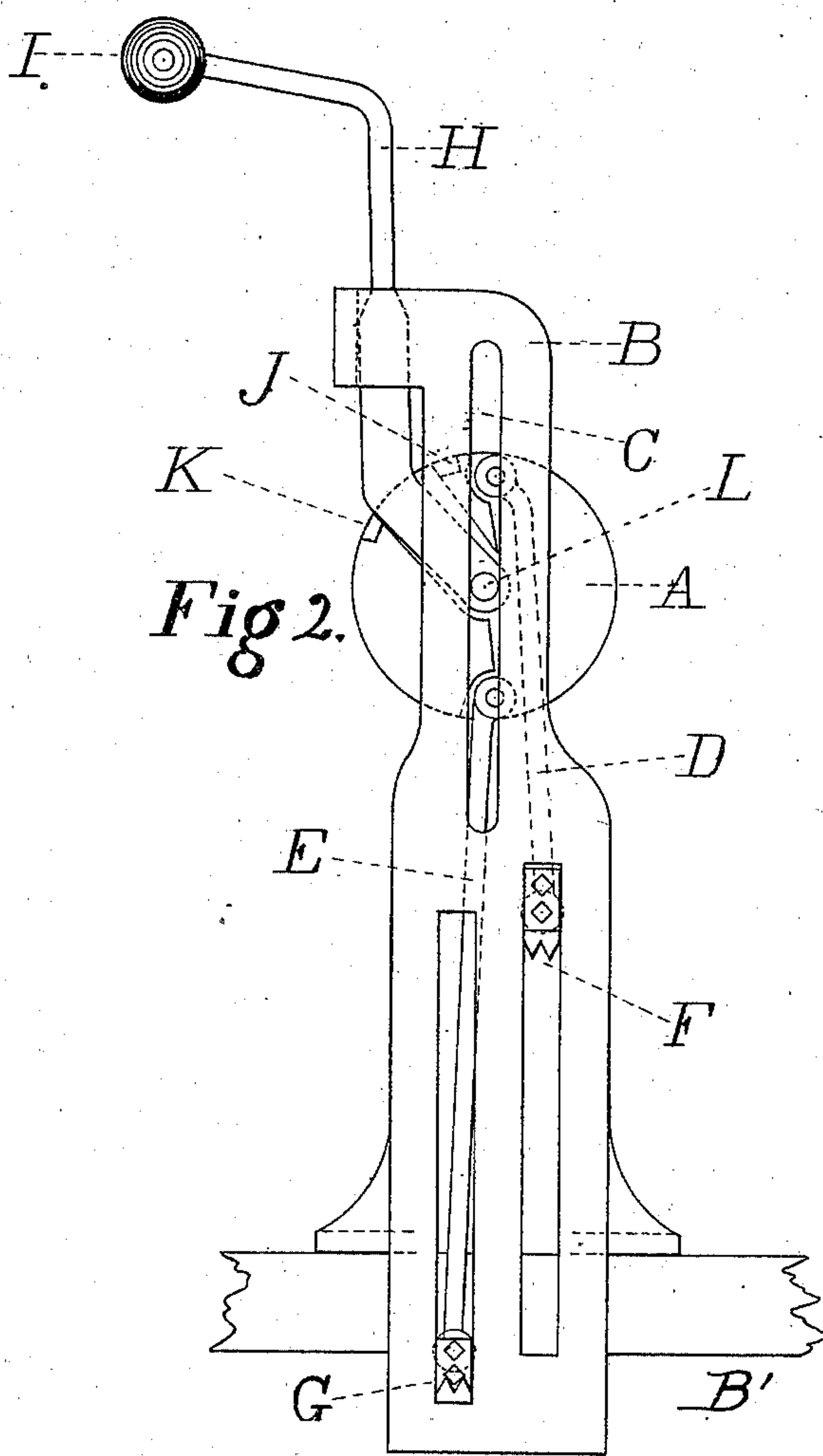
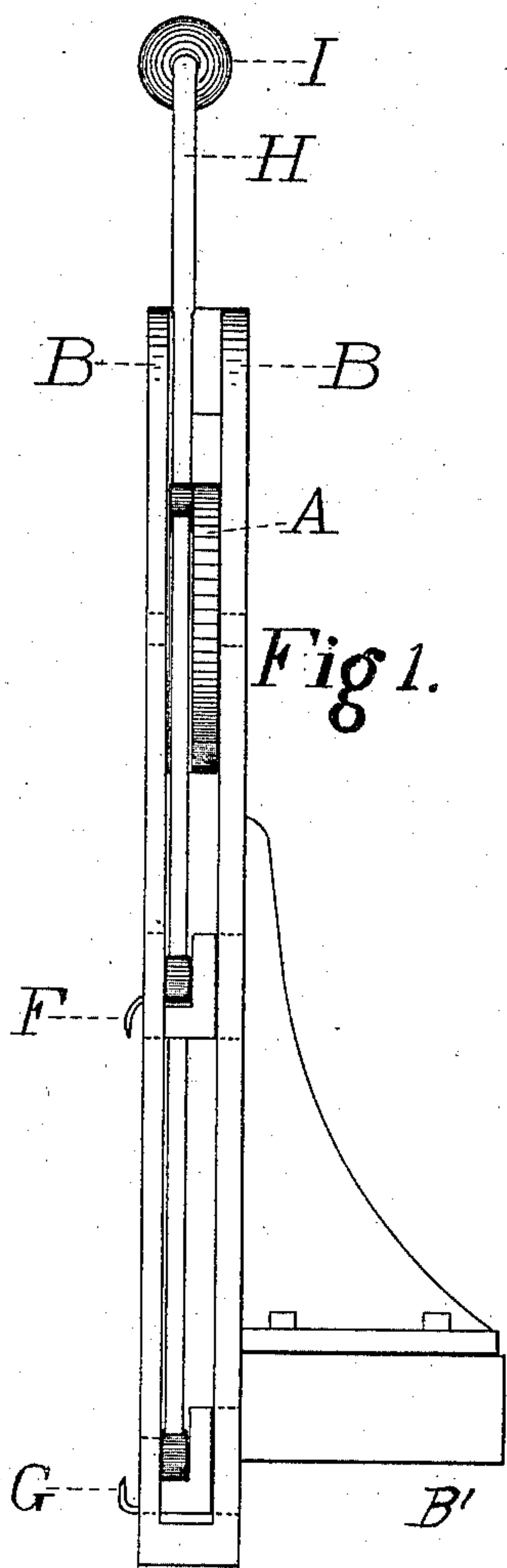


(No Model.)

C. H. PITKIN.
SAWMILL DOG.

No. 474,687.

Patented May 10, 1892.



WITNESSES:

Am L Boyden
J M Maple

INVENTOR

Clarence H. Pitkin
BY
Fred E. Barker
ATTORNEY.

UNITED STATES PATENT OFFICE.

CLARENCE H. PITKIN, OF BERLIN, VERMONT.

SAWMILL-DOG.

SPECIFICATION forming part of Letters Patent No. 474,687, dated May 10, 1892.

Application filed June 30, 1891. Serial No. 398,053. (No model.)

To all whom it may concern:

Be it known that I, CLARENCE H. PITKIN, a citizen of the United States, residing at Berlin, in the county of Washington and State of Vermont, have invented certain new and useful Improvements in Sawmill-Dogs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My present invention has reference to an improved sawmill-dog or dogging device for sawmill set-work, the object thereof being to simplify and perfect the construction of devices of this kind; and it therefore consists, essentially, in the construction, arrangement, and combination of the several parts, substantially as will be hereinafter more fully described and claimed.

In the annexed drawings, illustrating my invention, Figure 1 is a side elevation of my improved sawmill-dog. Fig. 2 is a front elevation of the same.

Similar letters of reference designate corresponding parts in both figures.

B designates a slotted knee or upright, which is placed in suitable guides on the set-beam B' or some other convenient support and is adapted and intended to have arranged therewith a suitable outsetting device for moving the dog forward and back, accordingly as the crook or taper of the log or cant may require, said outsetting or tapering device not being illustrated in the drawings, as it is unnecessary, being a feature common to many forms of sawmill dogs now in use and upon which I make no special claim. The knee or upright B is constructed so as to provide two sides, between which is a central upright recess, wherein and between the two sides aforesaid are an oscillating plate A, a lever H, depending rods D and E, which are pivoted at their upper ends to the oscillating plate A, and dog-slides F and G, carried on the lower ends of the rods D and E, respectively. The sides of the recessed upright B are provided with vertical slots C, which receive the horizontal pivot L of the oscillatory plate A, and thus permit said plate A to have as much vertical play or oscillation as may be necessary; and these vertical slots C also afford bearings within which the journal-pin can turn to permit plate

A to rock back and forth in its partial rotative movement. The lever H is preferably curved or bent. It is pivoted at its lower end upon the pivot-pin L of the plate A, and it is provided at its upper end with a weighty knob or ball I, by means of which additional force may be given to the blow of the lever, and by means of which, also, it may be held in place when thrown to one side or the other to move the rocking plate, said lever H being guided in its back-and-forth movement by the sides of the upright within which it is inclosed and embraced, as shown. The plate A is provided on one side with a recess, within which lies the lower portion of the lever H, and at the edges of this recess are shoulders J and K, against which the lever strikes as it moves from one position to the other. The lower portion of the dog-frame B is provided with vertical slots, within which the dog-slides F and G work, and said slides are of course provided with the dogs in the usual way.

The operation and use of my improved sawmill-dog as thus described will be readily apparent from the foregoing without need of additional description.

An important feature of the invention is the movable pivot of the oscillating plate, whereby said plate is enabled to travel up and down vertically and thus adjust itself so that the best results in the way of dogging may be accomplished.

By referring to Fig. 2 it will be seen that the weight of the plate A, lever H, rod B, and upper dog F is supported upon the lower dog G by means of the rod E, which, being pivoted to the plate A, holds the latter in the position in which it is seen. Now if the operator throws the lever H over toward the right, it will strike the opposite edge of the recess in the plate A or will strike shoulder J on said plate, thereby causing the plate to partially revolve, and also carrying the top of the rod E toward the left, thereby removing the support from beneath the plate A, which consequently falls in the slot C until the upper dog F strikes the log or cant which is to be dogged. When the upper dog F strikes the cant, it becomes the fulcrum upon which the lower dog G will be raised, the pivot rising in the slot until the lower dog strikes the log or cant, and then by the force of the lever both dogs are driven

into the wood. It will thus be readily understood that by means of the vertically-adjustable plate having the movable pivot the dogs or teeth are adjusted and forced into the wood by a single blow of the lever instead of by several motions thereof, as is required with many other forms of dogging devices. Thus I achieve simplicity of construction and ease of operation by means of my improvement.

10 Numerous changes in the exact and precise construction and arrangement of the parts and in their relative connections may doubtless be made in order to adapt the dogging device for use in different places, and I reserve the liberty of making all such changes as may be necessary to adapt the invention for the best possible practical application thereof without departing from the general scope and plan thereof as herein explained.

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

1. In a sawmill dog, the combination of a knee or upright, vertically-movable slides therein provided with dogging-teeth projecting in opposite directions, an oscillatory and vertically-movable plate pivoted in vertical

slots in the upright, a weighted lever supported on the pivot-pin of said plate, which plate is provided with suitable shoulders to receive the blows of said weighted lever, together with the rods connecting the dogging-slides to the plate, substantially as described. 30

2. In a sawmill-dog, the combination of the upright or main support provided with vertical slots, an oscillatory and vertically-movable plate whose pivot or journal operates within said slots, a lever pivoted on the journal of said plate, and the dogging-slides connected to the plate, substantially as described. 35 40

3. The combination of the main support B, having vertical slot C, the oscillating and vertically-movable plate A, having pivot-pin L, the lever H, pivoted on said pin L, the shoulders J and K on the plate A, the dogging-slides F and G, and the connecting-rods D and E, pivoted to the plate A and carrying said slides, substantially as described. 45

In testimony whereof I affix my signature in presence of two witnesses.

CLARENCE H. PITKIN.

Witnesses:

CARROL P. PITKIN,
FRANK I. PITKIN.