(No Model.)

# L. JOHNSON.

## SAW MILL DOG.

No. 321,222. Patented June 30, 1885.

Fig. 1.

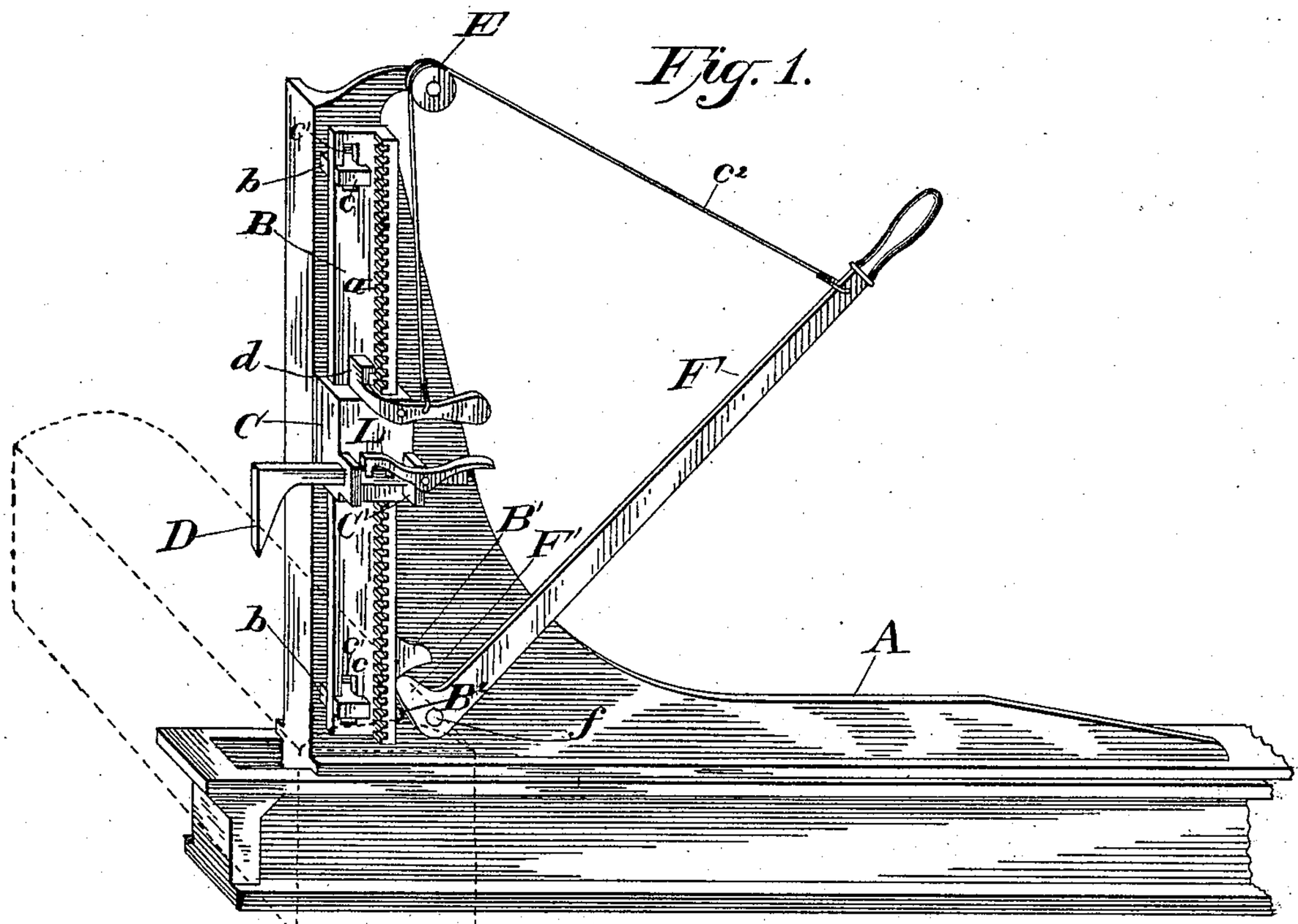



Fig. 2.

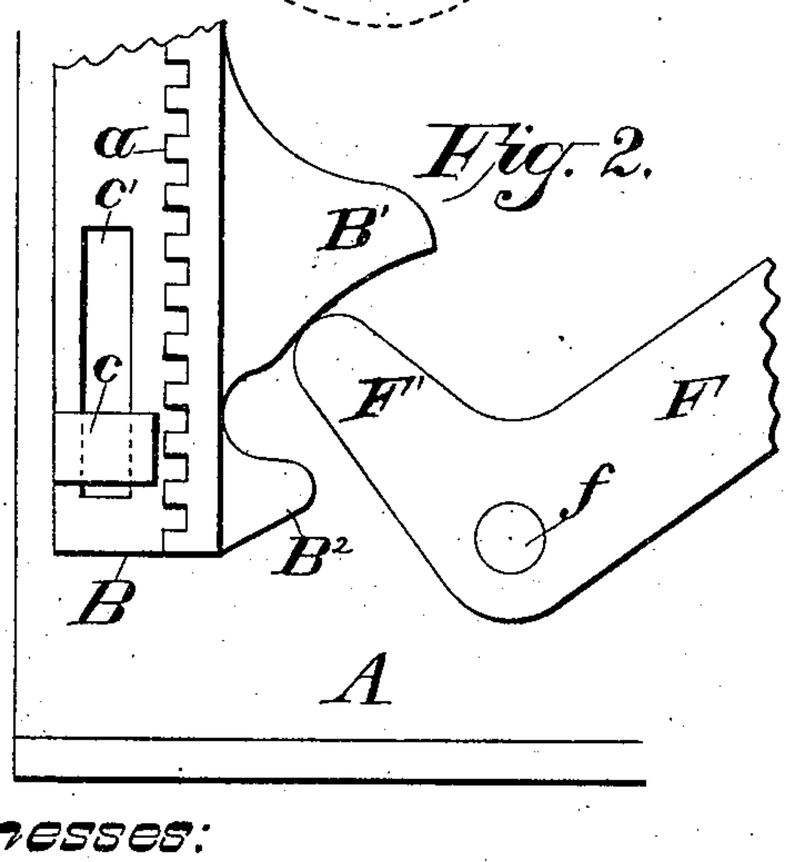
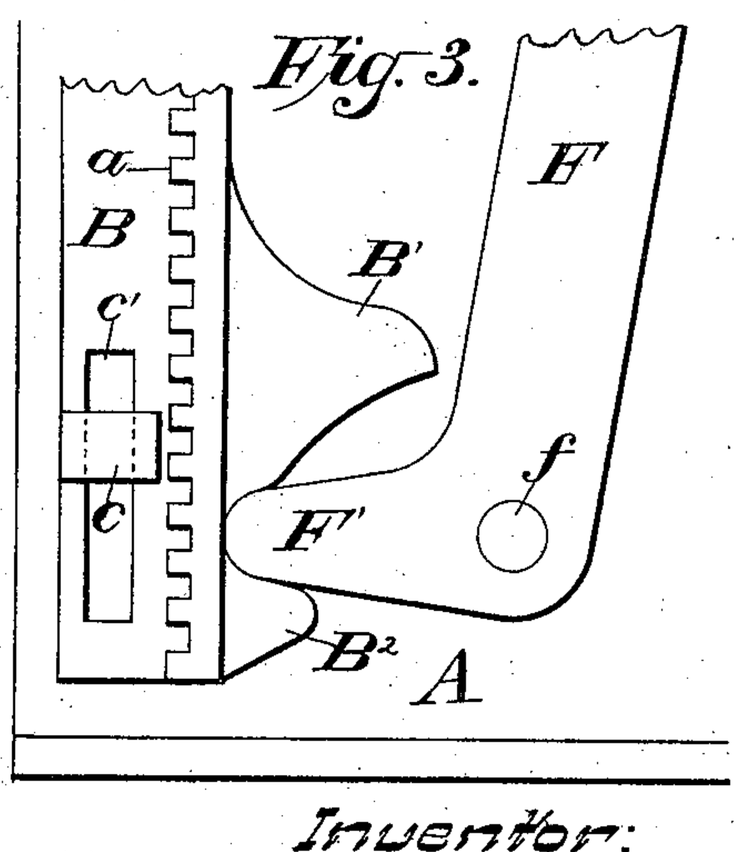



Fig. 3.




Witnesses:

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# UNITED STATES PATENT OFFICE.

LOUIS JOHNSON OF MILWAUKEE, WISCONSIN.

## SAW-MILL DOG.

SPECIFICATION forming part of Letters Patent No. 321,222, dated June 30, 1885.

Application filed April 23, 1885 (No model.)

*To all whom it may concern:*

Be it known that I, LOUIS JOHNSON, of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Saw-Mill Dogs; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to saw-mill dogs, and will be fully described hereinafter.

In the drawings, Figure 1 is a perspective view of a saw-mill dog embodying my improvements, and Figs. 2 and 3 are details.

A is the knee, which may be of any desired form, and to this is secured an angle-bar, B, by T-bolts *c* in the slots *c'*. The bar B is held out from the knee by washers *b*, so that a carrier, C, for the gripping-tooth D may be slipped onto it. The shortest flange of bar B is toothed, as at *a*, to receive a pawl, *d*, that is pivoted to carrier C, and the handle of which projects back far enough toward the rear of the knee; and to this handle is secured a rope, chain, or wire, $c^2$, that, extending up over a sheave, E, is then secured to the handle of a hand lever, F. Just below the pawl *d* the carrier C is provided with lugs C' to receive the handle of the gripping-tooth D, and this handle is notched on its upper side to take a pawl, L, by which it is held in adjustment. The lower end of angle-bar B is provided with cam-lugs B' $B^2$, and finger F', that projects from the lower end of the lever F, (which latter is pivoted to the knee at *f*,) projects or fits between these lugs.

The operation of my device is as follows: When a cant or log is to be taken by the dog, the lever F is turned down from a vertical, and while its finger F' lifts upon the bar B, through cam-lug B', its handle, by drawing upon the flexible connection $c^2$, will lift upon the handle of pawl *d*, disengage the pawl from the teeth of bar B, and will raise the carrier C, and at the same time the finger F' will lift the bar B. Now, when the gripping-tooth is to be dropped upon the cant the lever is lifted toward a vertical, and both the bar and carrier are dropped until the tooth D strikes the cant. This will cause connection $c^2$ to slack, the pawl *d* will engage between two of the teeth *a* and lock the carrier, and the finger F, acting on lug $B^2$, will force bar B down and draw tooth D into the cant.

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

1. In a saw-mill dog, the combination of a sliding tooth-carrier and its locking-pawl with a vertically-sliding supporting-bar and a lever engaging at one end with the supporting-bar, while its other end is connected with the sliding carrier and its locking-pawl by means of a band passing over a pulley on the frame and secured to the arm of said pawl, as set forth.

2. In a saw-mill dog, the supporting-bar of the tooth-carrier having cam-lugs on its lower end, in combination with a lever having a finger for engagement with said cam-lugs, a sliding tooth-carrier and its locking-pawl, and a band connecting the upper end of the lever with the arm of said pawl and passing over a pulley on the frame, as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

LOUIS JOHNSON.

Witnesses:
S. S. STOUT,
H. J. FORSYTHE.