

(No Model.)

K. E. CONANT:
Saw Mill Appliance.

No. 242,888.

Patented June 14, 1881.

Fig. 1.

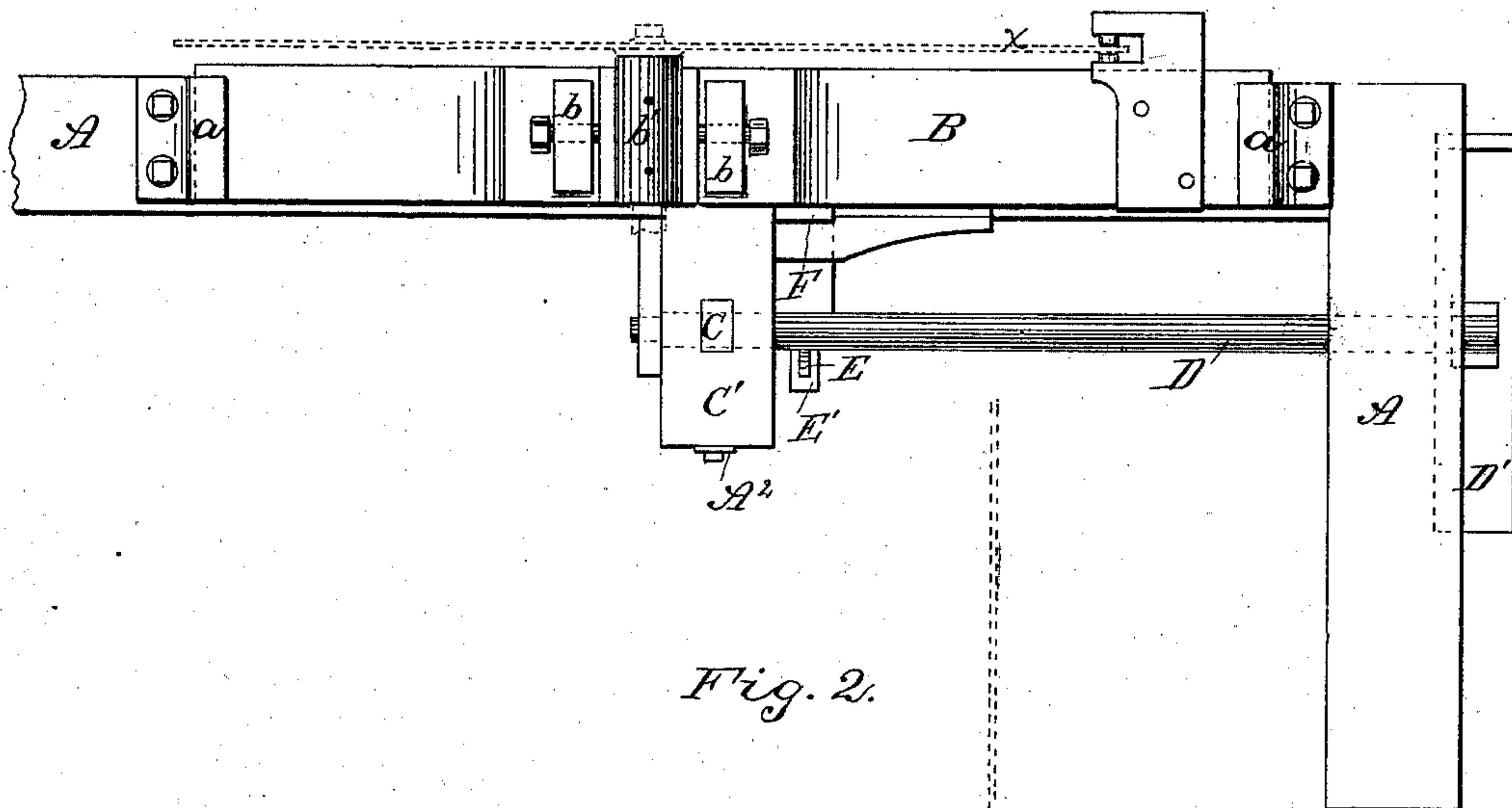
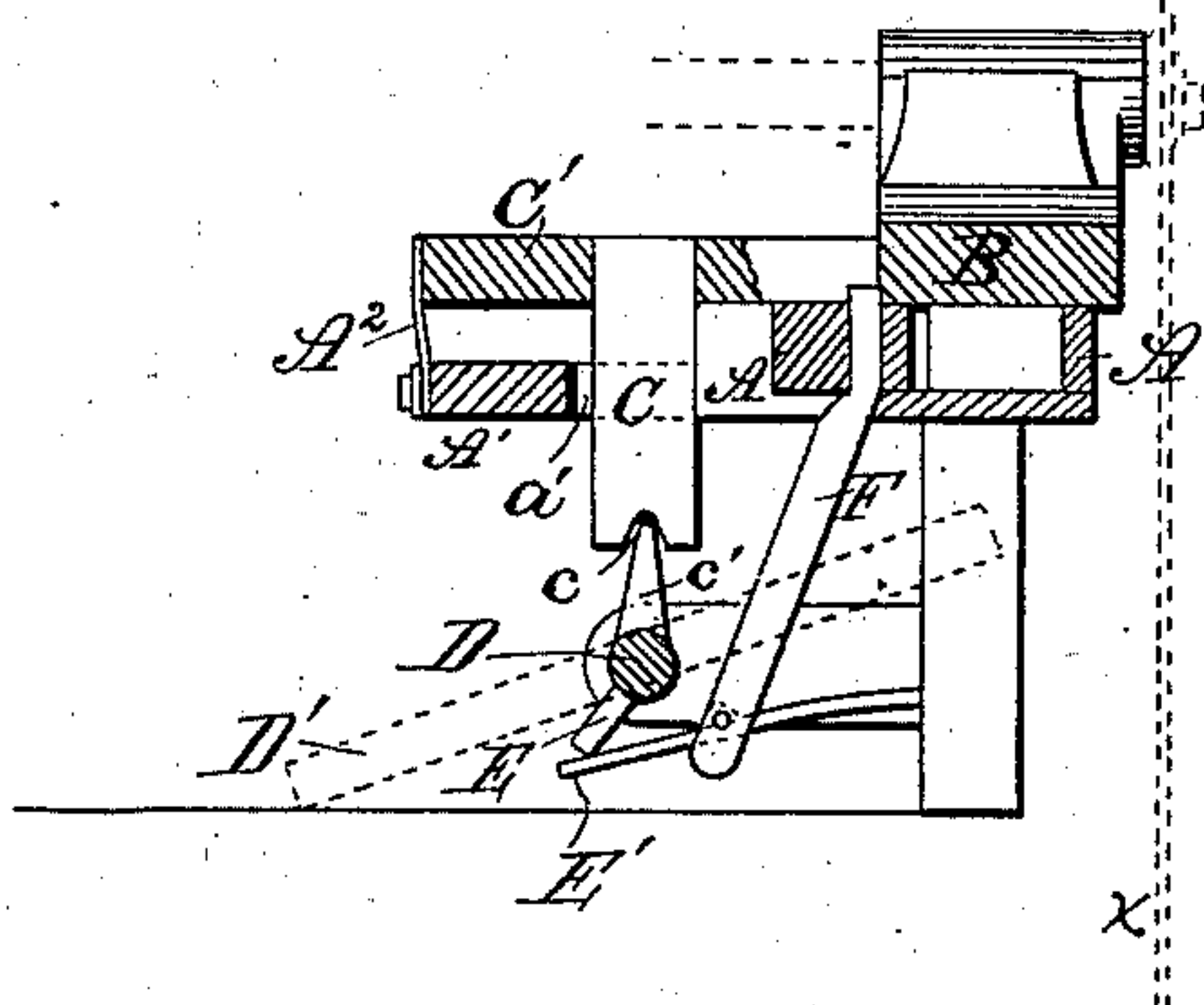


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

KING E. CONANT, OF ANCLOTE, FLORIDA.

SAW-MILL APPLIANCE.

SPECIFICATION forming part of Letters Patent No. 242,888, dated June 14, 1881.

Application filed February 4, 1881. (No model.)

To all whom it may concern:

Be it known that I, KING E. CONANT, a citizen of the United States, residing at Anclothe, in the county of Hillsborough and State of Florida, have invented certain new and useful Improvements in Saw-Mills; 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to a device adapted for useful service upon saw-mills and the like; and the novelty consists in the construction and arrangement of parts, as will be more fully hereinafter set forth, and specifically pointed out in the claims.

It is well known that in log-sawing, after the slab has been severed and the log is being withdrawn, the teeth of the saw impinge upon the log upon one side only of the saw, and, besides being a useless contact, it is apt to dull the saw and put the teeth out of set.

My invention is designed to avoid this useless and damaging contact when the log is being backed by slightly withdrawing the saw and frame, through the medium of a foot-lever or other proper mechanism, from its proximity with the log, and by providing mechanism which will automatically force the saw and frame again into position after the log has been backed, and also locking the same into operative position as soon as the force is released.

To enable others skilled in the art to make and use my invention, I will describe the construction and mode of operation of the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a top-plan view, and Fig. 2 is an end view, partly in section.

Referring to the drawings, in which similar letters of reference indicate like parts in all the figures, A represents the main frame, hav-

ing guides *a*, in which operates the saw-carrier B, which has the ordinary saw-mountings, *b*, and steadier *b'*. An arm, A', upon the main frame A, having a slot, *a'*, serves to guide a reciprocating arm, C, rigidly secured to an arm, C', upon the saw-carrier B, and grooved at its lower end at *c*, to receive an oscillating lug, *c'*, upon a rotating or oscillating lever, D, properly journaled in the main frame, and having a rigid treadle, D', as shown. A spring, A², upon the arm A' acts with a constant force to hold the saw in operative position, while a radial arm, E, upon the lever D serves to depress a spring, E', to which is secured a lock-slide, F, which operates in a proper guide in the main frame, when the springs are at rest, to hold the saw-carrier in rigid operative position.

When the treadle is depressed the arm E is also depressed, withdrawing the slide F. The lug *c'* operates to draw the saw-carrier away from the log until the same has been backed, when the pressure is released from the treadle and the spring A² automatically forces the saw-carrier back into operative position, and also elevates the slide F to lock it there. *x* represents the saw.

From the foregoing description the operation of my invention is obvious.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. The combination of the oscillating rod D, treadle D', and the lug *c'* with the grooved arm C, carrier B, and spring A², bearing against the frame to return the same to position, as and for the purpose set forth.

2. The combination of the oscillating bar D, having lugs *c'* fitting into groove in arm C, and arm E, bearing on spring E', with the slide F, arm C, carrier B, and spring A², as and for the purposes specified.

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

KING E. CONANT.

Witnesses:

J. A. MATCHETT,
J. W. MATCHETT.