

No. 787,992.

PATENTED APR. 25, 1905.

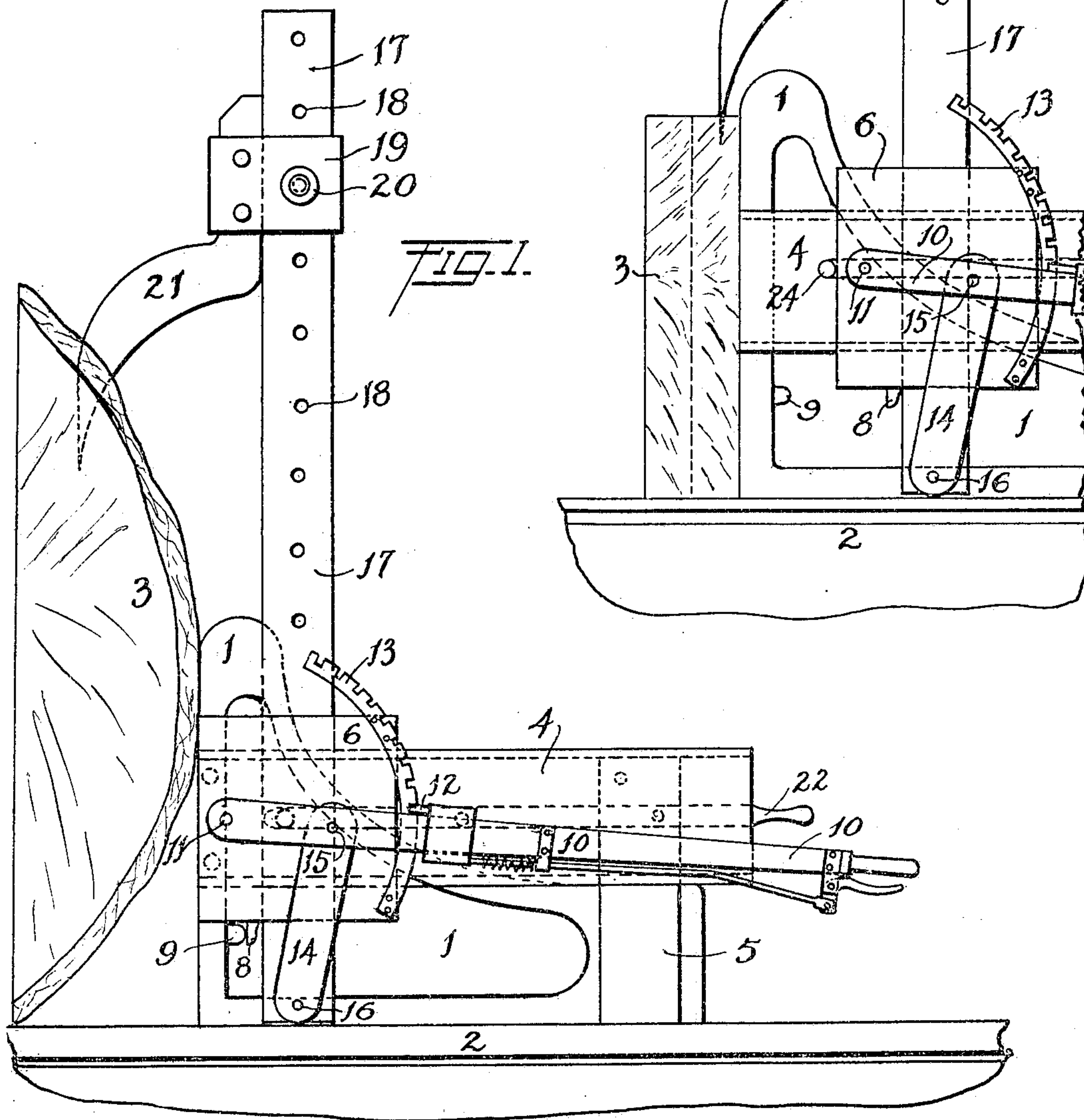
A. B. McCULLOCH.

RECEDING DOG.

APPLICATION FILED APR. 7, 1904.

2 SHEETS, SHEET 1.

FIG. 2.



WITNESSES
H. E. Windsor
Frederic J. Shaw

INVENTOR
Arthur B. McCulloch
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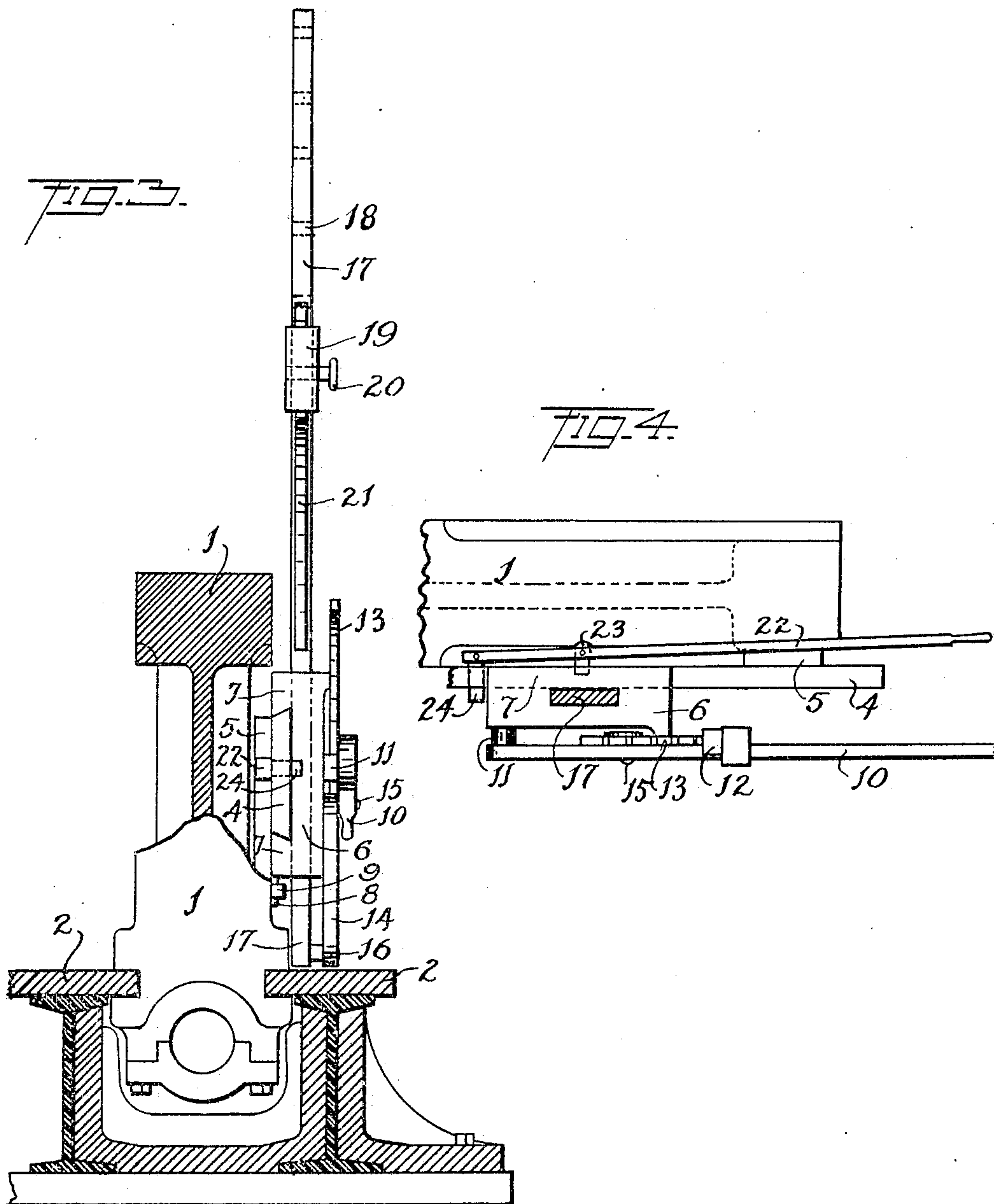
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UNITED STATES PATENT OFFICE.

ARTHUR B. McCULLOCH, OF KAPOUSIN, WASHINGTON.

RECEDING DOG.

SPECIFICATION forming part of Letters Patent No. 787,992, dated April 25, 1905.

Application filed April 7, 1904. Serial No. 201,952.

To all whom it may concern:

Be it known that I, ARTHUR B. McCULLOCH, a citizen of the United States of America, and a resident of Kapousin, in the county of Pierce and State of Washington, have invented certain new and useful Improvements in Receding Dogs, of which the following is a specification.

This invention relates to devices for securing lumber on a sawmill-carriage, and has for its objects, first, to provide a dog which shall recede on the knee to which it is secured, so that when the log is rolled against it it will not be broken or damaged, and, second, to provide a dog which shall always act vertically downward in whatever position it may be placed. I attain these objects by the devices illustrated in the accompanying drawings, in which—

Figure 1 is a side view of my device when used to fasten a large log. Fig. 2 is a similar view when in use to fasten a small piece of lumber, showing the safety-stop in use. Fig. 3 is front view of my device, a part of the knee being broken away; and Fig. 4 is the plan thereof.

Similar numerals of reference refer to similar parts throughout the several views.

In the drawings I have shown an ordinary knee 1, mounted in the usual way on the head-blocks 2 and adapted to press against the side of the lumber 3 being sawed. To the side of the knee 1 I have secured, by means of countersunk bolts, the guide-plate 4, extending from the front edge of the knee to beyond the rear edge thereof. The rear end of this plate 4 is secured to the plate 5, which is secured to the rear end of the knee 1. The upper and lower edges of the guide-plates 4 are beveled off toward the knee 1, as plainly shown in Fig. 3.

The sliding piece 6 is planed with inwardly-beveled parts 7, which accurately fit over and engage the beveled edges of the guide-plate 4. This piece 6 is substantially square and slides horizontally on the guide-plate 4 and carries the dog mechanism. The lug 8 on its lower edge is adapted to engage the stop 9, secured

to the knee 1 in such position as to prevent the sliding piece 6 from passing beyond the edge of the knee and the guide-plate 4.

The operating-handle 10 is pivoted at 11 to the piece 6 and is provided with the usual spring-latch 12, engaging the notches in the quadrant 13, secured to the piece 6.

The link 14 is pivoted to the handle 10 at 15 and extends downward therefrom to engage the vertical dog-bar at 16.

The piece 6 has a vertical hole passing through it near its center, through which passes the vertical dog-bar 17. This bar 17 has a series of holes 18 made at intervals along its length.

The casting 19 slides on the bar 17 and is held in place by the spring-pin 20, which engages any one of the holes 18.

The dog 21 is secured to the piece 19 and moves therewith and projects outward and downward, so as to engage the lumber on the sawmill-carriage.

To the other side of the guide-plate 4 and between it and the knee 1 is pivoted the arm 22, the pivot 23 thereof being secured in the plate 4 and one end having the pin 24 attached to it and passing through a hole in the plate 4, so that its end will project therefrom so as to stop the sliding piece 6 at such a point that the dog 21 shall be only about one inch beyond the edge of the knee, thus allowing my device to be used in cutting lumber down to a thickness of about two inches without running any risk of the dog projecting into the path cut by the saw, and shown in Fig. 2 by the dotted line in the lumber 3. The handle 22 of this safety-stop 24 extends toward the rear end of the knee and may be of any desired length.

It is evident that the entire dog-operating mechanism slides with the piece 6 on the guide-plate 4 and that the bar 17 and the dog 21 always act vertically. Further, if the dog 21 receives a heavy blow from a log being rolled against the knee it will cause the piece 6 and the entire dog mechanism to slide back on the plate 4, and thus save the dog from being broken thereby.

What I claim, and desire to secure by Letters Patent, is—

1. In a sawmill-dog, the combination with the knee mounted on the carriage, of a horizontal guide-plate secured to said knee, a carrier-block mounted on and freely sliding on said guide-plate, a vertically-sliding tooth-bar mounted on and sliding with said carrier-block and carrying a tooth, a hand-lever pivoted to and sliding with said carrier-block, a link connecting said hand-lever with said vertical tooth-bar, and a quadrant mounted on said carrier-block and adapted to be engaged by and to hold said hand-lever in any position thereon.

2. In a sawmill-dog, the combination with the knee mounted on the carriage, of a horizontal guide-plate secured to said knee, a carrier-block mounted on and freely sliding on said guide-plate, a stop mounted on said guide-plate whereby said carrier-block is prevented from passing too far forward on said guide-plate, a vertically-sliding tooth-bar mounted on and sliding with said carrier-block and carrying a tooth, a hand-lever pivoted to and sliding with said carrier-block, a link connecting said hand-lever with said vertical tooth-

bar, and a quadrant mounted on said carrier-block and adapted to be engaged by and to hold said hand-lever in any position thereon.

3. In a sawmill-dog, the combination with the knee mounted on the carriage, of a horizontal guide-plate secured to said knee, a carrier-block mounted on and freely sliding on said guide-plate, a removable stop mounted on said guide-plate whereby said carrier-block is prevented from passing too far forward on said guide-plate, a horizontal lever pivoted to said knee and engaging said stop to remove it, a vertically-sliding tooth-bar mounted on and sliding with said carrier-block and carrying a tooth, a hand-lever pivoted to and sliding with said carrier-block, a link connecting said hand-lever with said vertical tooth-bar, and a quadrant mounted on said carrier-block and adapted to be engaged by and to hold said hand-lever in any position thereon.

Signed at Eatonville, Washington, this 28th day of March, 1904.

ARTHUR B. McCULLOCH.

Witnesses:

A. CHRISTOFIRSON,
G. W. FALCONER.