

(No Model.)

T. H. KENNEDY.

SAW MILL DOG.

No. 277,841.

Patented May 15, 1883.

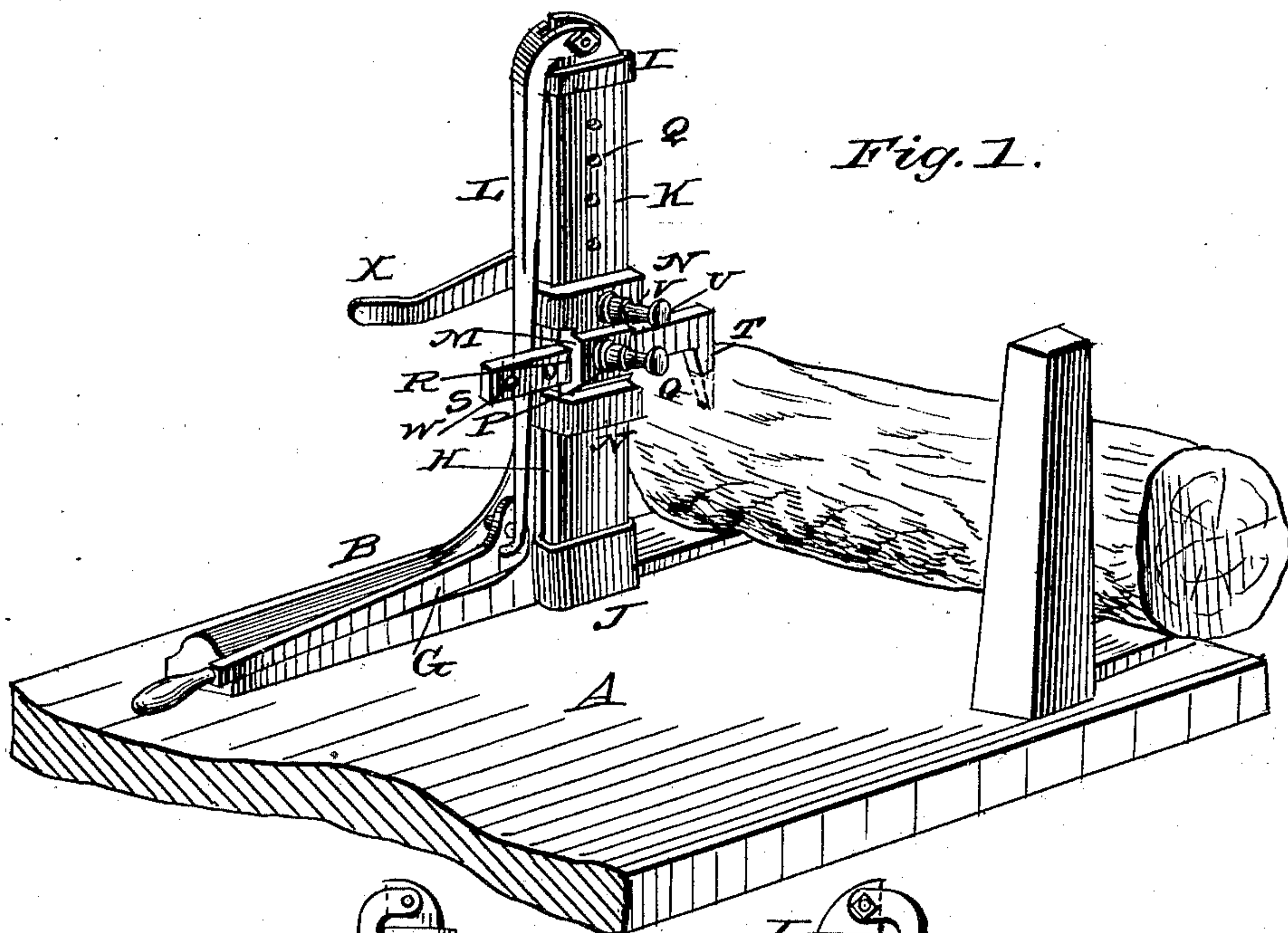


Fig. 1.

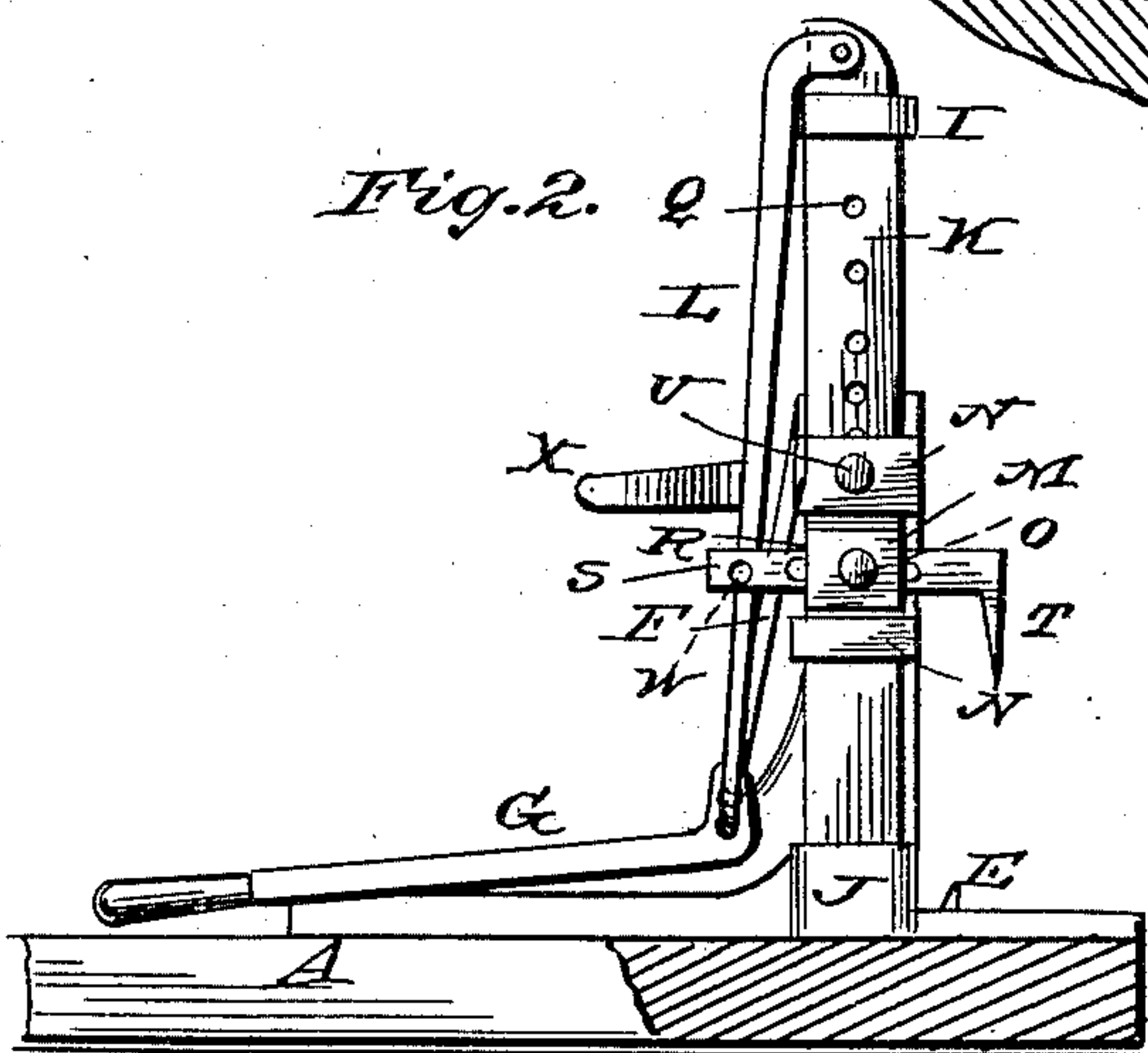


Fig. 2.

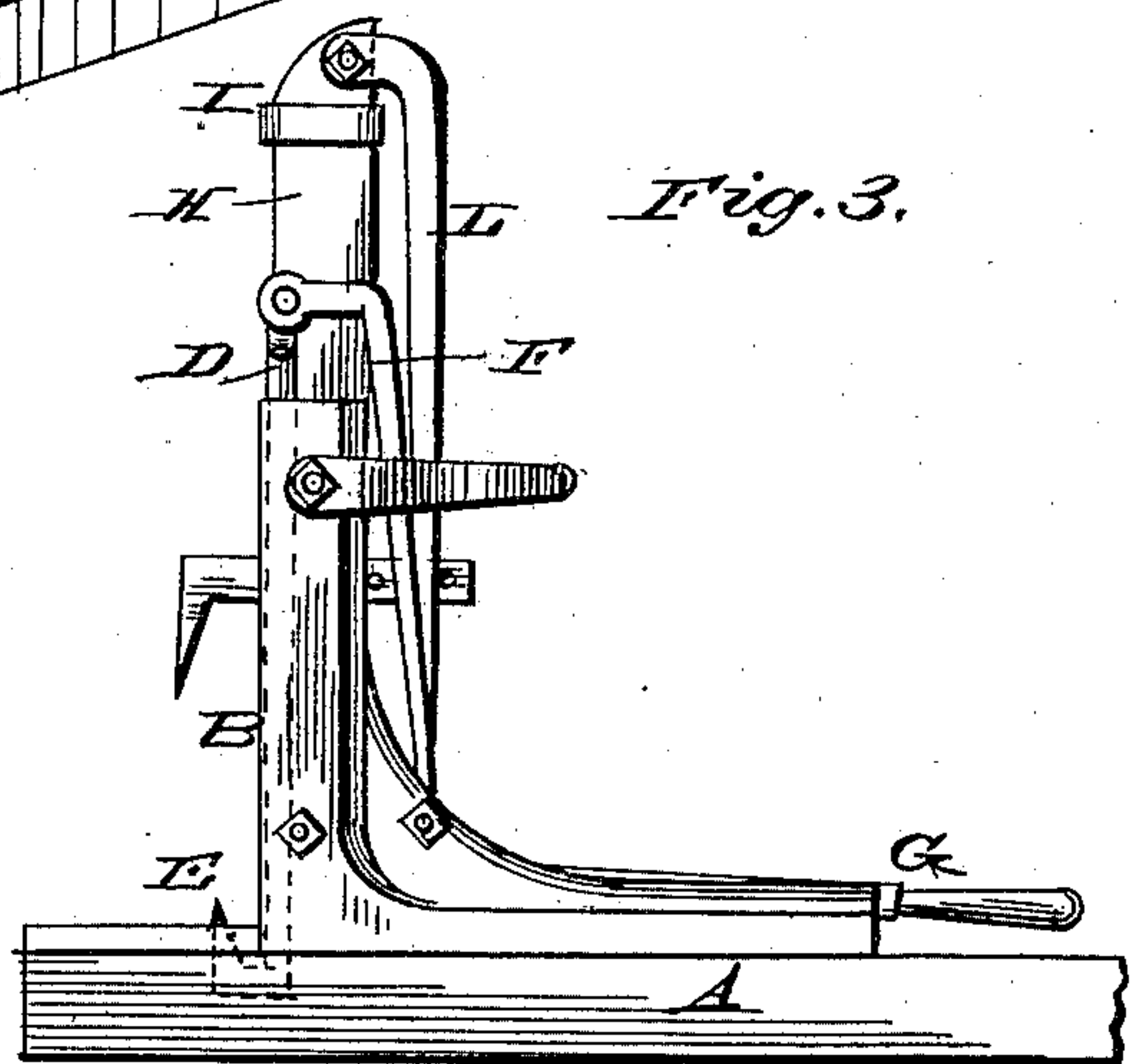


Fig. 3.

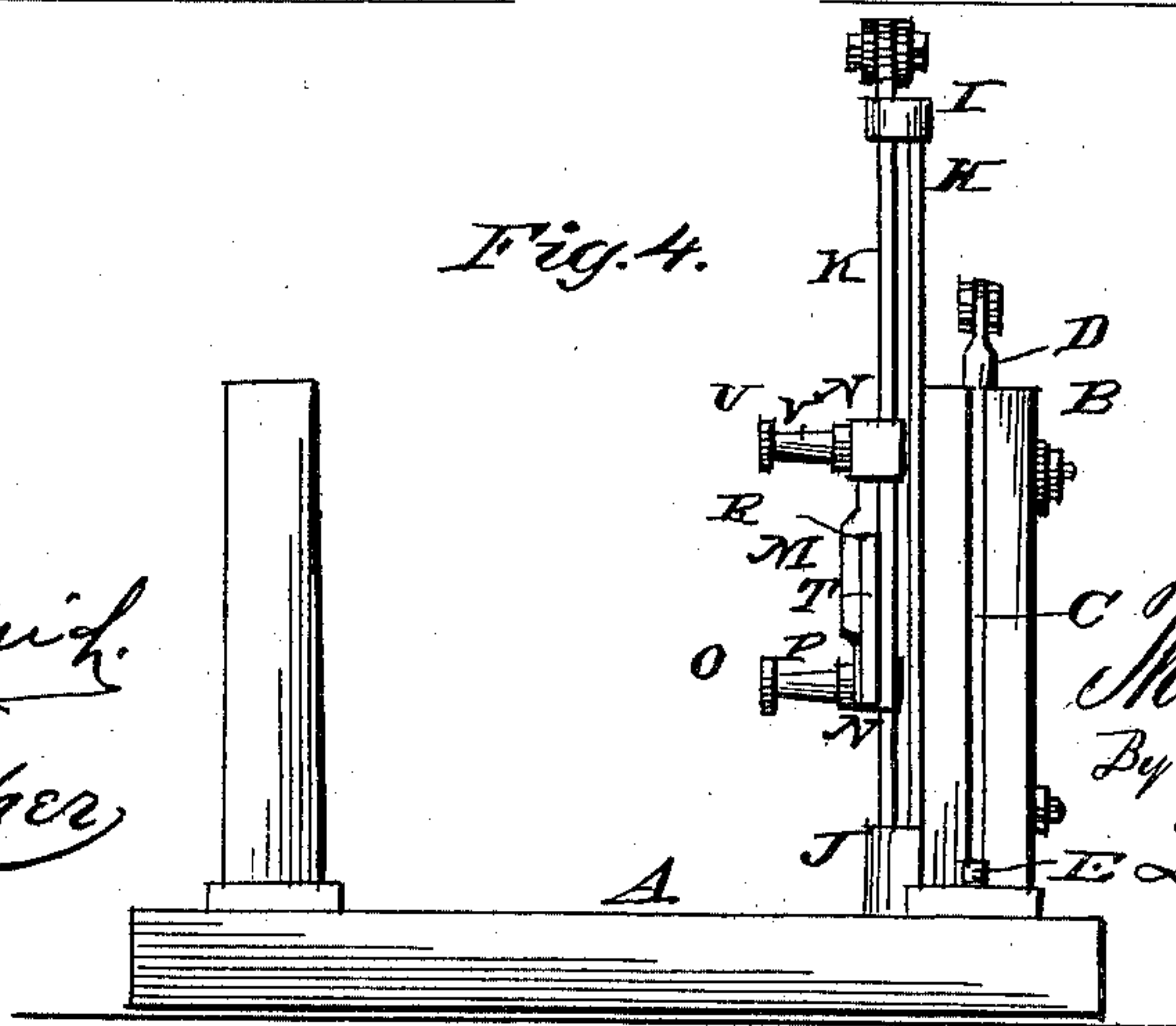


Fig. 4.

Witnesses:

Phil C. Dietrich
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UNITED STATES PATENT OFFICE.

THOMAS H. KENNEDY, OF NEW PLYMOUTH, OHIO, ASSIGNOR OF THREE-FOURTHS TO JAMES A. ANKROM AND WILLIAM C. BARTON, OF SAME PLACE.

SAW-MILL DOG.

SPECIFICATION forming part of Letters Patent No. 277,841, dated May 15, 1883.

Application filed March 26, 1883. (No model.)

To all whom it may concern:

Be it known that I, THOMAS H. KENNEDY, of New Plymouth, in the county of Vinton and State of Ohio, 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 of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved saw-mill dog. Fig. 2 is a side view of the same. Fig. 3 is a similar view, seen from the other side; and Fig. 4 is a front view.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to saw-mill dogs; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates a portion of the log-carriage in a saw-mill, and B one of the sliding knees against which the log abuts, resting upon the head and tail blocks. The upright portion of the knee has a cylindrical groove or recess, C, in its face, in which a bar or rod, D, slides, from the lower end of which projects an upward-pointing dog, E, while an L-shaped arm, F, is hinged with the outer end of its horizontal portion to the upper end of the sliding bar, and with the lower end of its vertical portion to the outer end of the short arm of an L-shaped bent lever, G, pivoted upon the side of the horizontal part of the sliding knee. A flat upright bar, H, is fastened to the side of the upright portion of the knee, and has two laterally-projecting bails, I and J, at the upper and lower ends, which form bearings for a flat bar, K, sliding in the same. The upper horizontal end of an arm, L, the lower end of the vertical portion of which is hinged to the L-shaped lever G, at the knee of the same, is hinged to the upper end of the sliding bar, and lever G being pivoted at a point between the knee and the end of the short arm, it will be seen that by raising the lever in a vertical

position the sliding bars will move in opposite directions from each other, while by tilting the lever down the bar having dog E will be raised and the sliding bar K will be depressed. A plate, M, forming two bails, N, clasp around the sliding bar K, slides upon the latter, and a bolt, O, sliding in a sleeve, P, projecting laterally from plate M and drawn in toward bar K by a suitable spring, passes through the said plate and engages a series of circular perforations or notches, Q, upon the bar K, serving to adjust the plate at any height desired. The central portion of plate M forms a transverse recess, R, facing the sliding bar, and a flat bar, S, having a downward-pointing dog, T, upon its outer end, slides in the recess, and may be adjusted by means of a spring-actuated bolt, U, sliding in a laterally-projecting sleeve, V, similar to bolt O and sleeve P, and engaging a series of perforations or notches, W, upon the bar S. A flat spring, X, is fastened to the upper end of the sliding knee, and its free end projects inward and serves to bear against the side of lever G and hold the same when in its upright position.

It will be seen that the upper dog may, by this construction, be adjusted to suit any thickness of log, and may be moved inward nearer to the upright as the sawing progresses.

It will also be seen that when the log has been sawed up to the thickness of the last two boards the dogs will hold the last board perfectly firm by sliding the upper dog in, so as not to come in contact with the saw, and by then depressing the lever the upper and lower dog will both enter the edges of the last board and hold it firmly.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The combination, in a saw-mill dog, of the sliding knee B, having cylindrical recess C in the face of its vertical portion, and upright plate or bar H, forming bearings I and J upon its upper and lower ends, bar D, sliding in recess C, and having upward-turned dog E at its lower end, bar K, sliding in bearings I and J, and having the adjustable downward-turned upper dog secured upon it, L-shaped lever G,

pivoted upon the side of the knee B near its lower end upon a bolt passing through the middle of its inner bent end, L-shaped arm F, hinged to the upper end of sliding bar D and
5 to the inner end of lever G with its lower end, and L-shaped arm L, hinged to the upper end of sliding bar K, and hinged at its lower end to the lever G at the point where the latter is bent, as and for the purpose shown and set
10 forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

THOMAS H. KENNEDY.

Witnesses:

H. C. JONES,
J. A. ANKROM.