

(No Model.)

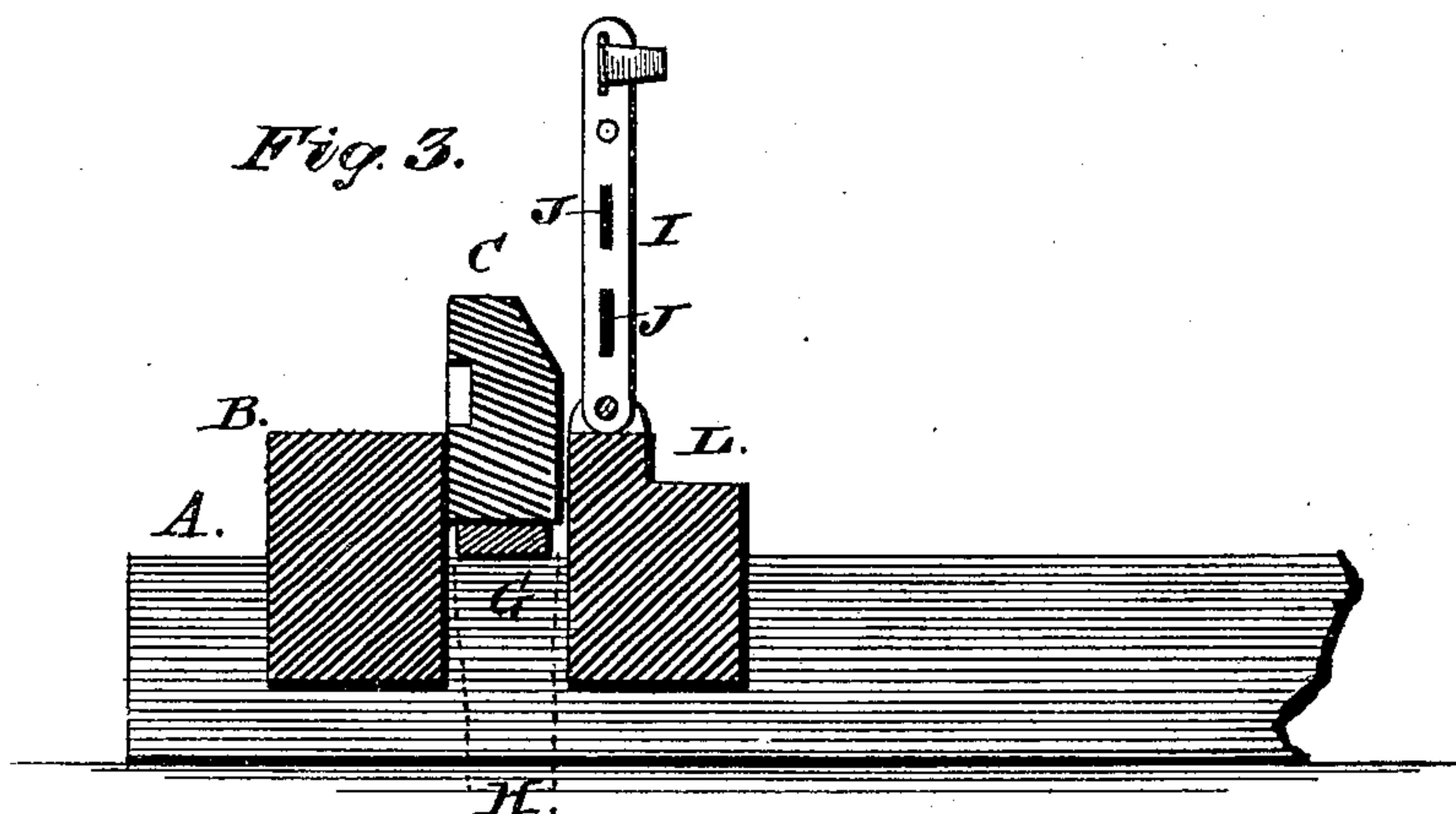
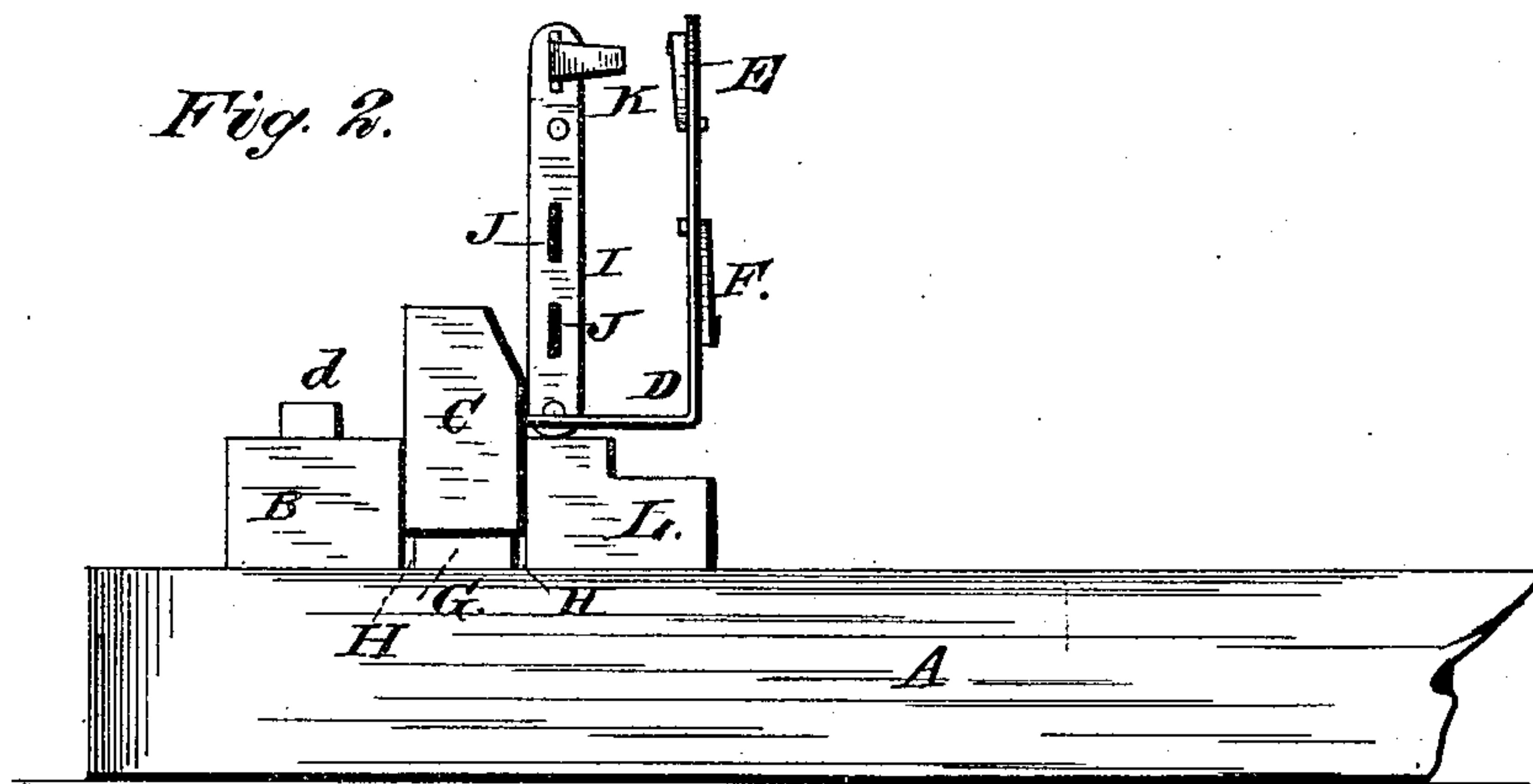
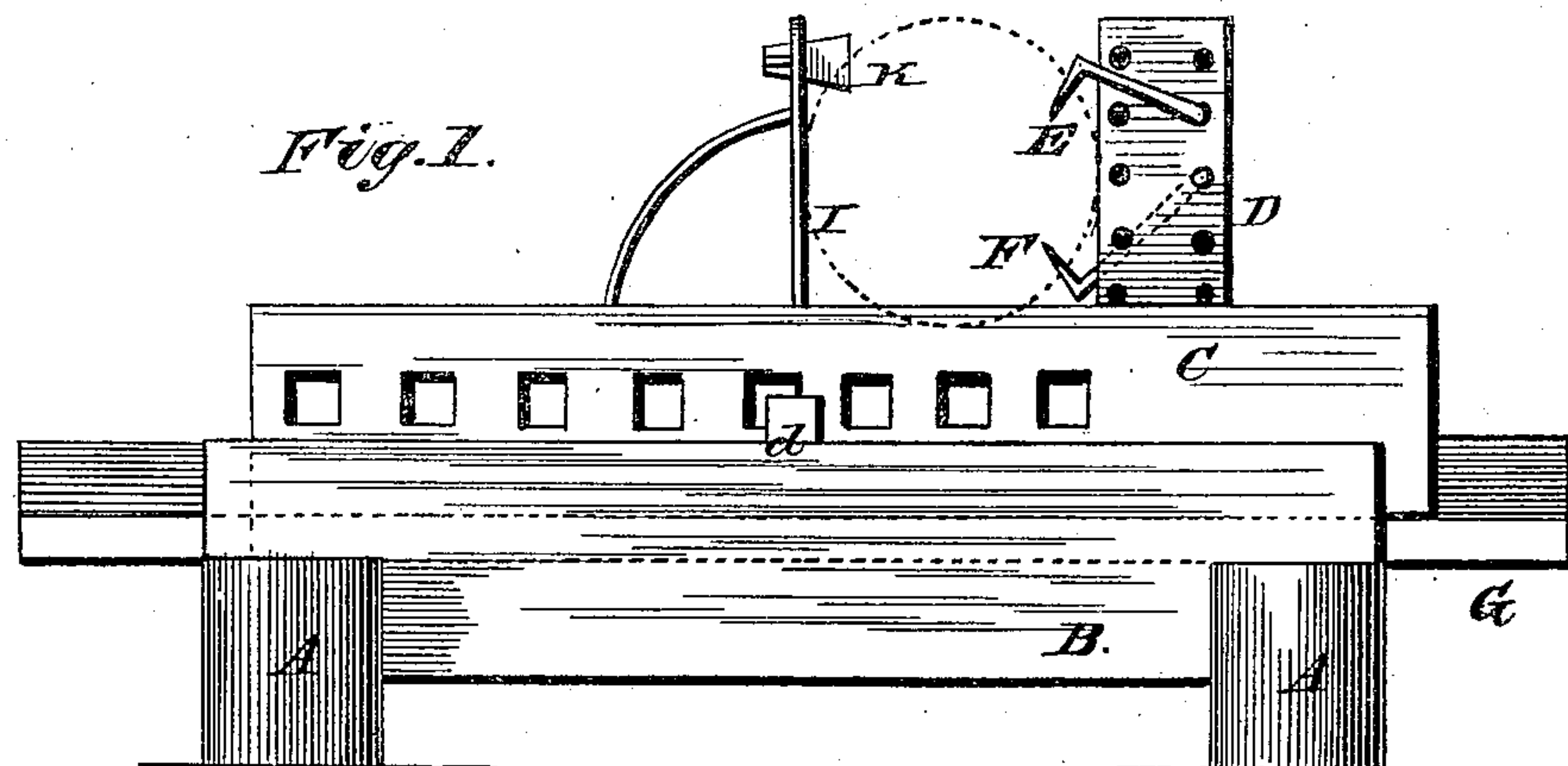
2 Sheets—Sheet 1.

J. T. JAMES.

HEAD BLOCK FOR SAW MILLS.

No. 245,381.

Patented Aug. 9, 1881.



Witnesses:
Fred G. Dieterich
J. R. Littel,

Inventor:
John T. James,
by A. Brown & Co.
Attorneys.

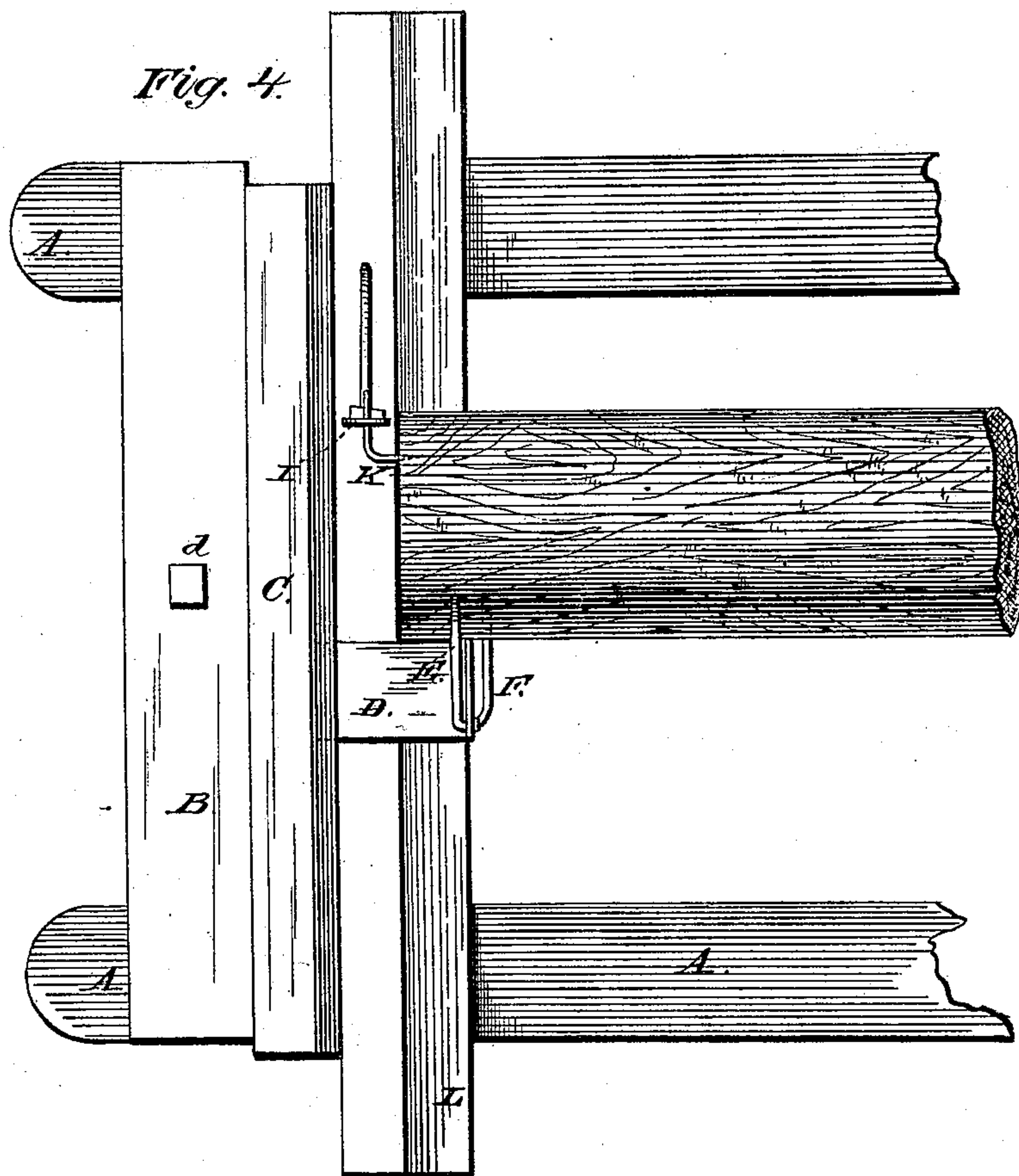
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2 Sheets—Sheet 2.

J. T. JAMES.
HEAD BLOCK FOR SAW MILLS.

No. 245,381.

Patented Aug. 9, 1881.



Witnesses:
Fred. G. Dietrich
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Inventor:
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Attorneys.

UNITED STATES PATENT OFFICE.

JOHN T. JAMES, OF LOVE'S MILLS, VIRGINIA.

HEAD-BLOCK FOR SAW-MILLS.

SPECIFICATION forming part of Letters Patent No. 245,381, dated August 9, 1881.

Application filed October 19, 1880. (No model.)

To all whom it may concern:

Be it known that I, JOHN T. JAMES, of Love's Mills, in the county of Washington and State of Virginia, have invented certain new and useful Improvements in Head-Blocks for Saw-Mills; 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.

Figure 1 is an end elevation of a saw-mill head-block embodying my invention. Fig. 2 is a side elevation, and Fig. 3 is a longitudinal sectional view. Fig. 4 is a plan view, showing the manner of securing the log to be sawed in position.

The invention relates to head-blocks for saw-mills intended for use in connection with sash and muley saws, and at the end of the carriage where the saw stops; and it consists in the improvements in the construction of the same hereinafter fully described, and particularly pointed out in the claim.

Referring by letters to the accompanying drawings, A designates the longitudinal beams of the carriage, and B the cross-beam at the end where the saw is usually stopped. *d* designates a stud rising from the center of the cross-beam B.

C designates the slide, having a series of recesses in its outer face and knee D secured to its inner face, as shown. The knee D is perforated by a series of holes at each edge, in which an upper dog, E, and a lower dog, F, may be pivoted to change the knee for use in either a right or a left hand mill.

The bottom G of the way in which the slide moves consists of a strip which is narrower than the bottom of the slide C, so that a space, H, is left at each edge of said strip, through which the sawdust in the way may fall.

I indicates a pivoted perforated arm, pro-

vided with a series of perforations, J, in which a removable reversible dog, K, may be keyed to adapt the dog to be driven into the ends of logs of different diameters, and also to change it from a right to a left hand mill by simply reversing it in its perforation. The end of the log rests on the stationary portion L which forms the inner side of the way for the slide C.

The dogs E and F are driven, the first into the upper side, and the second into the lower side, to hold the log from turning, and thereby causing the edges of the plank to be of unequal thickness. The dog K is driven into the end of the log and secures it while the saw is in operation.

The elements herein described may be applied to either a right or left operating mill with very little trouble, and the dogs may be moved up and down to adapt them to logs of different diameters. The slide is operated by a crow-bar, the end of which engages the series of recesses in the outer face thereof, the stud *d* being used as a fulcrum.

The device is inexpensive and quite simple, while the saving it affords will readily commend it to the sawyer or mill-owner.

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

In a saw-mill head-block, the slide C, having its outer face provided with a series of recesses and its inner face with knee D, having the adjustable reversible dogs E F, in combination with the pivoted perforated arm I J, carrying the removable reversible dog K, constructed and operating substantially as and for the purposes set forth.

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

JOHN T. JAMES.

Witnesses:

SAMPSON COLE,
ELIZABETH HOUSTON.