

J. Dawson,
Saw-Mill Head-Block.
N^o 15,330. *Patented July 15, 1856.*

Fig. 1.

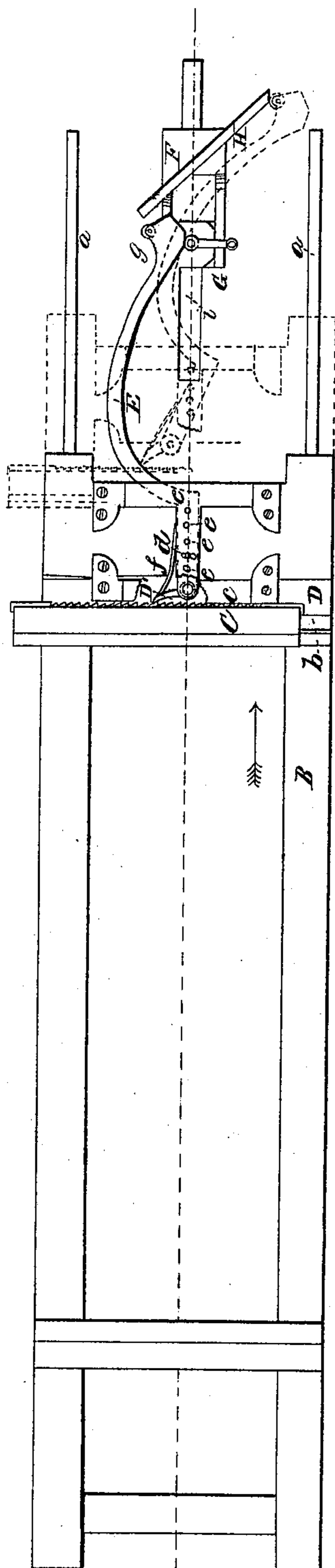
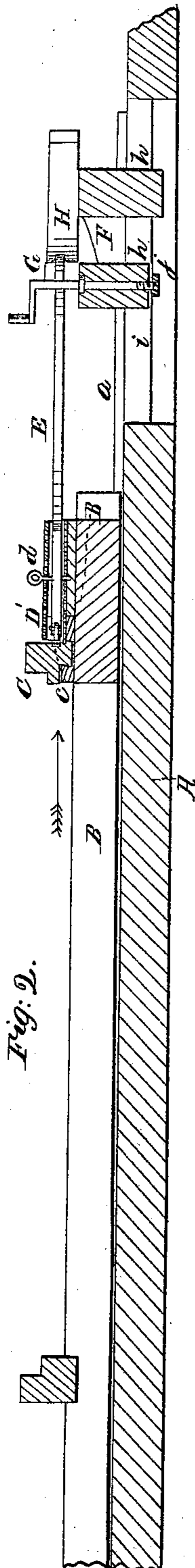


Fig. 2.



UNITED STATES PATENT OFFICE.

JOEL DAWSON, OF BARNESVILLE, OHIO.

SELF-SETTING TAIL-BLOCK FOR SAWING-MILLS.

Specification of Letters Patent No. 15,330, dated July 15, 1856.

To all whom it may concern:

Be it known that I, JOEL DAWSON, of Barnesville, in the county of Belmont and State of Ohio, have invented a new and Improved Self-Adjustable Block for Saw-mill-Carriages; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1, is a plan or top view of my improvement. Fig. 2, is a vertical section of ditto *x, x*, Fig. 1, showing the plane of section.

Similar letters of reference indicate corresponding parts in both figures.

My invention consists in the employment or use of a curved or bent lever to which a pawl is attached, an adjustable or oblique board, and a screw or pin, arranged and operating as will be hereinafter fully shown and described whereby the back or tail end of the log is properly set at each vibration or stroke of the carriage.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A, represents a bed or flooring on which ways or guides *a, a* are secured, and B represents the carriage which works on said ways. The above parts are of usual construction and therefore do not require a minute description.

C, represents a sliding block which is fitted and works in a groove *b*, in a cross tie D, attached to one end of the carriage B. The block C, has a rack *c*, attached to its outer side and a pawl D', catches therein, said pawl being pivoted to the inner end of a lever E, which is secured by a pin *d* to the cross tie, the lever working on said pin as a fulcrum. Several holes *e*, are made through the lever so that the position of its fulcrum may be varied, as occasion requires. The pawl D', has a spring *f*, bearing against its outer end, said spring keeping the pawl against the rack *c*, as shown clearly in Fig. 1.

The lever E is of bent or curved form, as shown in Fig. 1. The outer end of said lever has a friction roller *g*, placed within it.

F, represents a block which has tenons, *h*, on its lower end, said tenons being fitted

in an oblong slot or mortise *i*, in the bed or flooring A. The block is secured in proper position by means of a vertical screw rod G, which passes through the block F, and has a nut *j* on its lower end. To the outer end of the block F, an oblique or diagonal board H is secured.

The operation is as follows. When the carriage B is gigged back moving in the direction indicated by the arrow, the outer end of the lever E, will strike against the oblique or diagonal board H, the friction roller *g* bearing against said board. The lever E, will consequently be turned on the pin *d*, and the pawl D', will act upon the rack *c*, and throw out the block C, on which the end of the log rests. The "tail" end of the log will consequently be adjusted to the saw at each vibration or stroke of the carriage B. As the carriage B moves forward or in a contrary direction, the lever E will strike against the screw G, and the lever will be thrown back to its original position to be again acted upon by the oblique board H, when the carriage is gigged back.

The length of the throw or feed of the block C, is regulated by adjusting the pin *d*, in the proper hole *e*, of the lever E, so that the log may be sawed into "stuff" of the desired thickness. The block F may be set at any desired point to suit the length of the log; by loosening the screw G, and moving the block to the proper place and then tightening the nut *j*, by turning the screw.

The above invention is extremely simple, may be applied to the carriage by any mechanic at a trifling expense and will save considerable labor and attention on the part of the operator.

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

The bent or curved lever E, with pawl D', secured to it, adjustable block F, with screw G, and oblique board H, attached, and the sliding block C, with rack *c*, secured to it, the above parts being arranged and operating as shown for the purpose set forth.

JOEL DAWSON.

Witnesses:

EZEKIEL MILES,
WM. T. MEEK.