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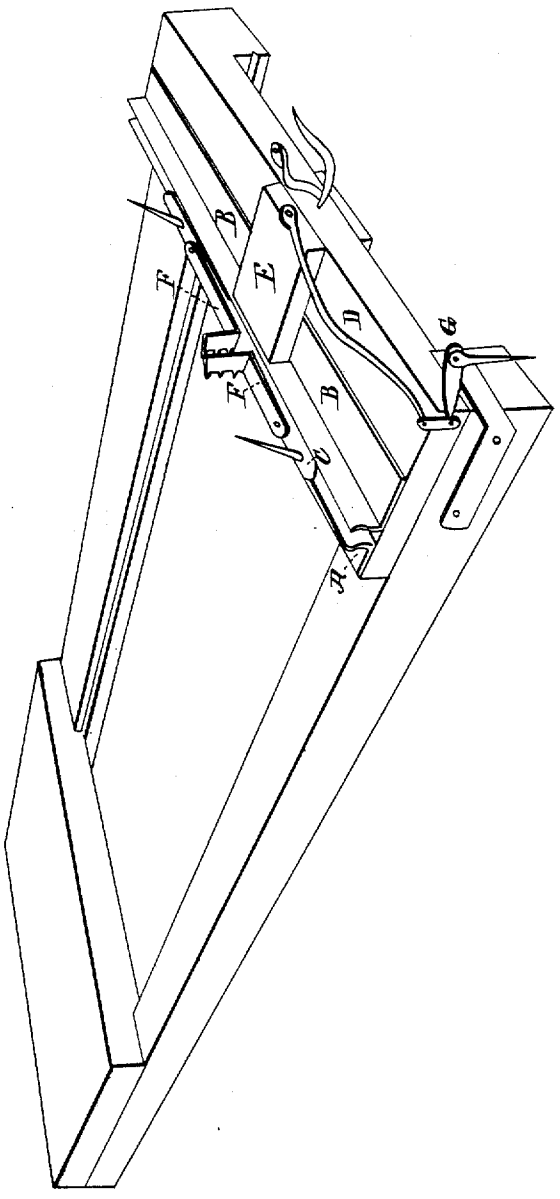
4305

J. Reed,

Sarr-Mill Head-Block.

Patented Mar. 2, 1836.

9461 X



A.M. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS)

9461X

Syle Reed
Letters Patent

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Syle Reed himself of his improvement in the said Mill Carriage Steel and Dog

To all persons to whom these presents shall come. Be it known that I Syle Reed of Mansfield in the County of Bristol and Commonwealth of Massachusetts, have invented and put into operation a new and useful improvement in the mode or manner of confining, moving and adjusting the log to be sawed, and which is described in the following words. The principle part of my improvement consists in slides a slider head, two bars a brace and two eight angle dogs. which are made of wrought iron and are constructed and applied in the following manner. The slide plate A. is from four to five feet in length seven eighths inches in width and about half an inch in thickness except two inches of the front edge on which the log slides. which is one inch.

The back edge is turned up to the to three inches with a lip to receive the slider and to support one edge of it

The other slides B.B. are about two feet in length three or four inches in width. turned up in the same manner as the former to receive and support the other edge of the slider. The slider C. is about three feet in length, three inches in width. an inch in thickness. grooved in each edge for the slides. The under side of this slider is notched from end to end. allowing four notches to the inch and a quarter, thereby gaining the inch board.

The distances of these notches from each other may be increased or diminished as occasion may require. The

lever D. to which the hand is attached, whereby the slider is moved is about three feet in length, of width and thickness sufficient for strength. At one end of this lever is an eye E. of about one foot in length, two inches in diameter, and at right angles with the aforesaid lever. The other end of this eye is a crank of about three or four inches in length. The hand C, is about eight or ten inches in length three in width and three in thickness. In the middle of this hand is a hole, one inch and a half in diameter which is to receive one end of the crank by which said hand is suspended. This hand is made of cast iron with steel ends fixed in themselves of the slider. under this hand is a straight bar to which a weight is suspended. The legs F. F. are eight angles, the horizontal feet of which are sixteen inches in length three inches in width, and three in thickness. The seven circular feet at each end are inches in height six and a half inches apart. In each of these are three or four holes in which strong iron or steel teeth are fastened for dressing the legs. These legs are fixed upon the slider by a dovetail joint at the outer ends. Two pieces of right iron are fastened one at each end of the slider, bent back at an angle of forty five degrees. The iron G. is used for fixing the legs, it is constructed with a tooth front by which the motion required is obtained, a like motion may be obtained by a curved brace about five feet in length which is placed at an angle of about forty five degrees to a mortise in a joint which lays parallel with carriage. In the upper end of this brace is a mortise to receive one end of a circular arm about one foot in length, which is confined by a bolt. In the backward motion of the carriage the iron D. comes in contact with said brace, by which it is raised and the legs is let

fall

By the joint of the circular arm in the brace, the carriage is permitted to pass forward, without giving motion to the lever. The application of the machinery, is as follows. Place the plate A. on the carriage stock even with the inner edge. bolt it fast. place the two other slides B.C. back of it so formed to admit the slides C. to slide between them bolt them down also. Place the axis of the lever D. between the two short slides. let the crank end come directly under the slides let the axis of the lever lie firmly bearing in wood or iron, and let the long arm of the lever D. extend a little without the carriage parallel with the plate. Place the knee E. about the distance of the length of its horizontal part back of the end of the lever of height sufficient to give the proper motion to the lever. A similar apparatus may be used at the head stock. In using this machine, the log is rolled on to its proper place. the dogs are driven in and the wrought descend on the back of the dogs upon the sloped irons. by which the log is firmly held. To change the motion of the slides, it is only necessary to depress one end of the hand, and the weight sliding on the back will throw the other and with the notches. With this apparatus the log is held to be sawed into boards of any dimensions with absolute steadiness.

What I claim as my improvement is the notched slides. the hand, weight and lever, the back joint of the knee the swivel brace the right angle dogs and the method of confining them as above described, and their arrangement. In testimony that the above is a true specification of my said improvement as my me described, I have hereunto set my hand this twenty-fifth day of January 1836.

Witnesses. N. Wallace
William Sampson

Silas Wood

[1056 words]

Drawing

9461X

Isaac Knight, Letters Patent granted, dated March 18. 1829.
Rejoined tenth day of July 1834 & Re-Rejoined
April 28. 1836. — Being for Improvt. in the
Rail road Carriage — Recorded in Volume
8th page 105 of Restored Records.