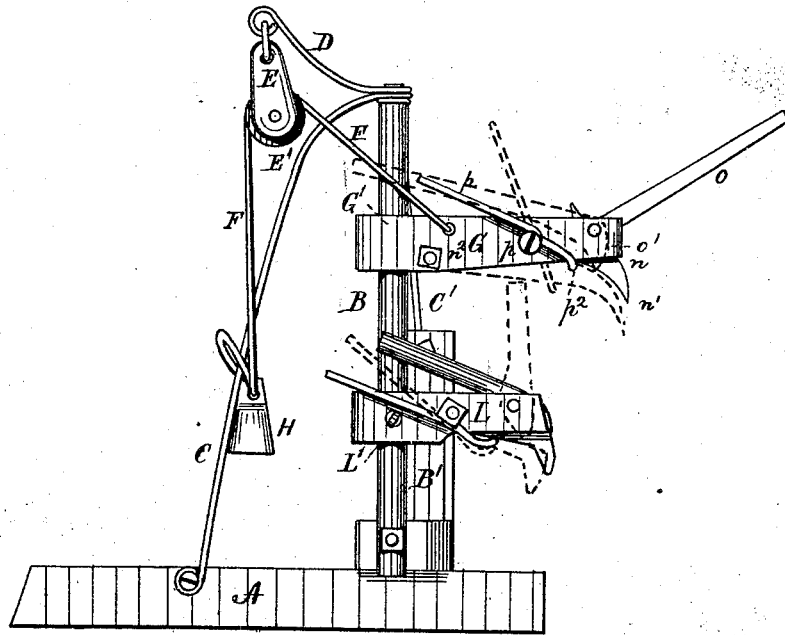


S. B. RITTENHOUSE.

DOGS FOR SAW-MILL CARRIAGES.

No. 184,109.

Patented Nov. 7, 1876.



WITNESSES:

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SILAS B. RITTENHOUSE, OF LIBERTY MILLS, INDIANA.

IMPROVEMENT IN DOGS FOR SAW-MILL CARRIAGES.

Specification forming part of Letters Patent No. 184,109, dated November 7, 1876; application filed April 7, 1876.

To all whom it may concern:

Be it known that I, S. B. RITTENHOUSE, of Liberty Mills, in the county of Wabash and State of Indiana, have invented certain new and useful Improvements in Dogs for Saw-Mill Carriages; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in dogs for holding logs or timbers in position on saw-mill carriages while being sawed into strips or boards, the nature of which will be hereinafter fully explained.

In the drawings, Figure 1 represents a side elevation of apparatus constructed according to my invention.

A represents a base or foundation-piece which is to be connected to the mill-carriage and operated by ordinary means. B is a standard, by preference formed cylindrical, the lower end of which is fitted into or is secured to a vertical post, B', mortised into the base-piece A, while its upper end is retained in position by an inclined support or rod, C, the lower end of which is also connected to the base-piece A. When the standard B is secured to a vertical post, B', an additional side brace, C', is attached, having its lower end secured to the post B'.

D is a bracket or arm extending backward from the upper end of the support C, and adapted to support a pulley-block, E, over the pulley E' of which is carried a chain or rope, F, one end of which is connected to an arm, G, while its opposite end is furnished with a weight, H, adapted to counterbalance the weight of the arm G.

The arm G at G' is formed to slide vertically on the standard B. When it is desired to turn the arm G out of the way, it may be raised and lowered at will, owing to its being counterbalanced by the weight H, and may be set in any position necessary to bring its outer end to the desired place on the log. L is an adjustable guide, which, at L¹, is formed so as to slide vertically on the standard B, and of being fixed rigidly thereto by means

of a set-screw, L², when desired. The guide L at its front end is provided with a bearing-face, L³, and sharp edge or point L⁴ adapted to support or to be driven into the edge of and hold the last board in position, so as to obviate the necessity of the operator placing his hand to the board, so as to hold the same steady, thereby avoiding many of the accidents frequently happening to operators in saw-mills.

The arm G is provided with a longitudinal vertical slot or mortise, in which is placed the swinging hooked arm *n*, having its outer end pointed, as shown at *n*¹, while its inner end is pivoted or hinged within said slot at *n*². In the outer end of said slot is pivoted the lever *o*, the lower end of which is formed with the cam-shaped head *o*', so arranged that when the lever is drawn toward the standard B the outer end of the arm *n* will be pressed downward, and the point *n*¹ forced into the log. By pushing the lever outward to the position shown, the arm *n* will be released when the point *n*¹ is drawn out of the log by the lever *p*, which is pivoted to the side of the arm G at *p*¹, and has its end *p*² bent under the said arm, so as to catch and lift the swinging arm *n*. It will be readily seen that the attachments shown in the guide L are the same in construction and operation as those described in the arm G.

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

1. The combination, with the vertical standard B, of the arm G, counterbalance weight H, cord or chain F, and pulley E', substantially as shown and described.

2. The combination, with the arm G, of the swinging arm *n* and lever *o*, having the cam-shaped head *o*', substantially as described, and for the purpose stated.

3. The combination, with the arm G and swinging arm *n*, of the lever *p*, as and for the purpose herein set forth.

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

SILAS B. RITTENHOUSE.

Witnesses:

L. J. LONG,

C. L. RITTENHOUSE.