

[7A.]

W.L. Dean. Log Binding Attachment to Saw Mills.

No. 118,697.

Fig. 1

Patented Sep. 5, 1871.

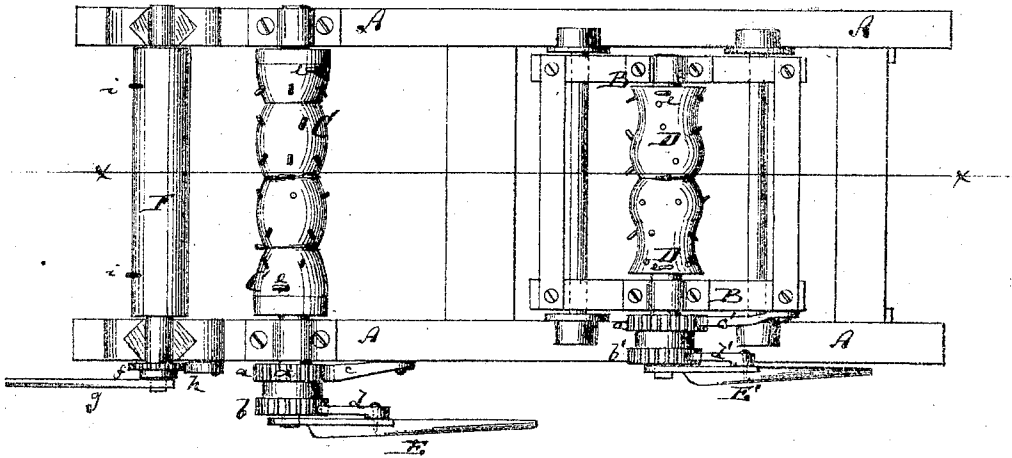
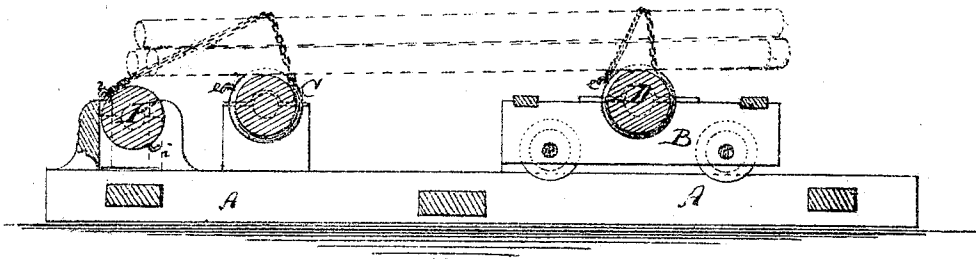


Fig. 2



Witnesses:
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UNITED STATES PATENT OFFICE.

WALTER L. DEAN, OF DAYTON, NEW YORK.

IMPROVEMENT IN LOG-BINDERS.

Specification forming part of Letters Patent No. 118,697, dated September 5, 1871.

To all whom it may concern:

Be it known that I, WALTER L. DEAN, of Dayton, in the county of Cattaraugus and State of New York, have invented a new and Improved Log-Binding Attachment to Saw-Mills; 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 make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 represents a plan or top view of my improved log-binding attachment. Fig. 2 is a vertical longitudinal section of the same taken on the plane of the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

This invention has for its object to provide the carriage of a drag-saw mill with a binding apparatus whereby a suitable number of logs or poles can be secured and fed to the saw to be cut at once. My invention consists in means for binding logs or poles effectually, whether a single large log or several small ones are being operated upon, as hereinafter fully described and subsequently pointed out in the claim.

A in the drawing represents the frame of the stationary saw-carriage. B is the truck running thereon. C is a spiked roller hung in the stationary carriage for the support of the logs. D is a spiked roller hung in the truck for the support of the logs. The roller C carries at one end two ratchet-wheels, *a b*, of which one, *a*, receives a pivoted pawl, *c*, to prevent the unwinding of the chains. The other ratchet-wheel receives a pawl, *d*, from a lever, E, which is pivoted to the end of the roller. The roller D has similar ratchet-wheels, *a' b'*, for pawls *c' d'* and lever E'. Hooks

ee are affixed to the rollers C D to hold the ends of the binding-chains. F is a roller hung in the carriage A in front of the roller C. It has a ratchet-wheel, *f*, at one end; also, a handle or lever, *g*, for turning it. A pawl, *h*, fitting into the ratchet-wheel prevents the rotation in one direction of the roller F.

The binding-chains are laid over the logs and each secured on the carriage with one end to one of the hooks *e* of the roller C and with the other end to a similar hook, *i*, on the roller F. They are tightened, by turning the roller F, by means of its handle *g*. The binding-chains for securing the logs to the truck are laid diagonally over the logs and secured with their ends to the hooks of the roller D. They are tightened by turning the lever E' and held tight by the pawl *c'*. Whenever the truck is moved ahead to feed another length of logs to the saw the chains on the rollers C F must be slackened to allow the logs to move over C. This slackening is effected by throwing out the pawl *c*, thereby unwinding the chains. After the truck has been moved ahead the desired extent the chains are again tightened on C by means of the lever E and held tight by the pawl *c*. By this arrangement a suitable number of logs or poles can be secured to the carriage and fed at once to the saw.

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

In combination with a movable truck, B, to which the logs or poles are fastened, the spiked roll C and roll F provided with intermediate chain, as described and for the purpose specified.

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Witnesses:

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