A. J. McCOLLUM & T. SEELY.
Saw-Mill Carriage Attachment.

No. 199,084. Patented Jan. 8, 1878.

Fig. 1.

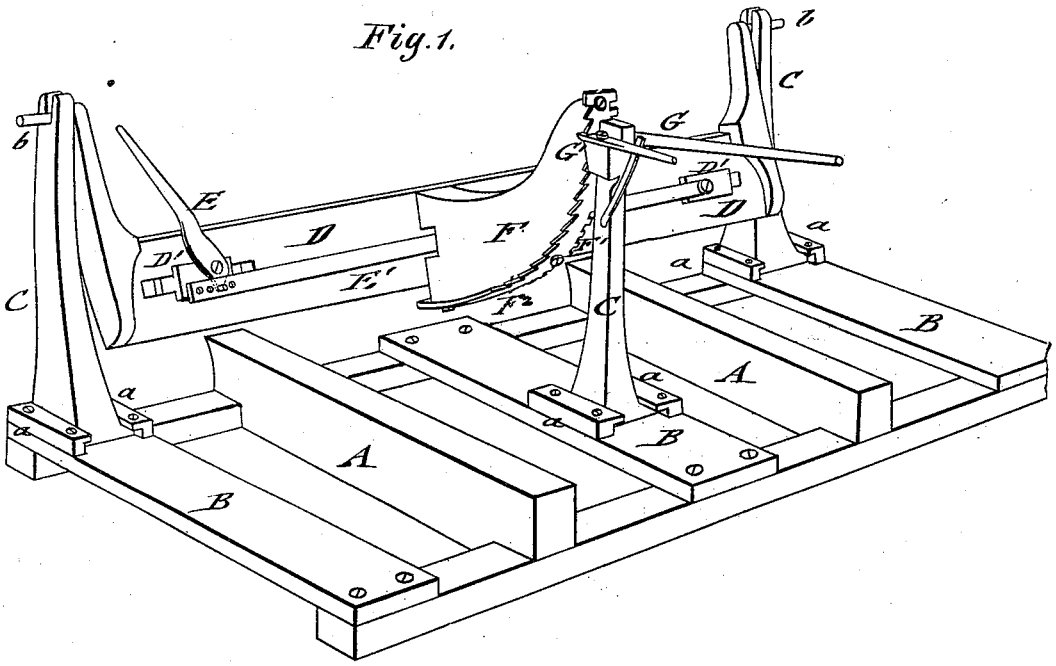
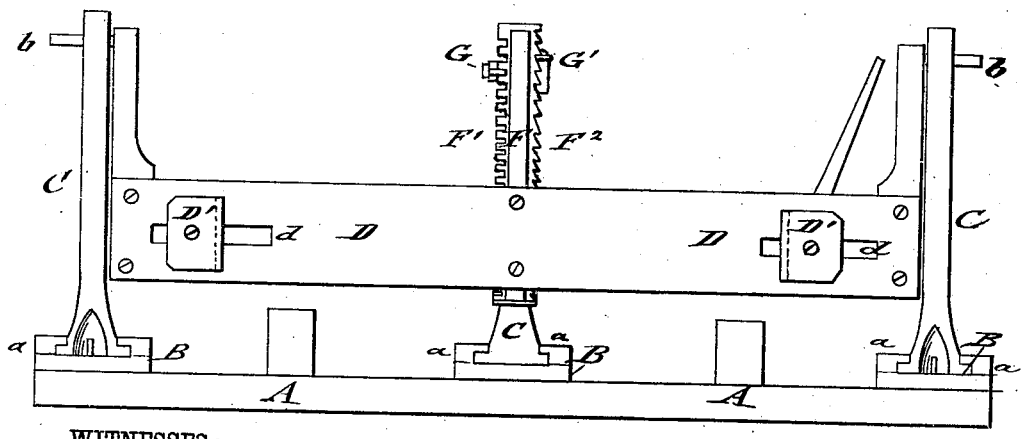


Fig. 2.



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ANDREW J. McCOLLUM AND THOMAS SEELY, OF INDIANAPOLIS, INDIANA, ASSIGNORS TO THEMSELVES AND GEORGE D. EMERY, OF SAME PLACE.

IMPROVEMENT IN SAW-MILL-CARRIAGE ATTACHMENTS.

Specification forming part of Letters Patent No. **199,084**, dated January 8, 1878; application filed November 12, 1877.

To all whom it may concern:

Be it known that we, ANDREW J. McCOLLUM and THOMAS SEELY, of Indianapolis, in the county of Marion and State of Indiana, have invented a new and Improved Saw-Mill-Carriage Attachment, of which the following is a specification:

In the accompanying drawings, Figure 1 represents a perspective view of a saw-mill carriage with our improved attachment for cutting boards for barrel-heads, and Fig. 2 a side elevation of the same.

Similar letters of reference indicate corresponding parts.

This invention is intended to furnish an improved attachment for the ordinary saw-mill carriage, whereby logs, after being quartered, can be cut up for tight barrel headings and staves for the full length of logs, the boards being then cut with butting-saws into pieces of the proper length desired.

The attachment is so constructed as to be quickly applied to or taken off from the saw-carriage, so that the quartered log can be cut up with the grain to the proper thickness for tight barrel-heads at the same or less expense than it costs to rive the quarters or eighths and saw them the proper length.

The invention consists of detachable supporting-posts, which are secured to keepers of the saw-carriage. The corner posts carry a swinging bar, to which the quarter log is attached by dogs, while the third center post carries a lever and pawl, that lock into racks of an arc-shaped arm of the swinging bar, to adjust the log successively to the action of the saw.

In the drawings, A represents a saw-mill carriage and head-blocks of the same, and B B are cross-pieces that are permanently fastened to the carriage, so as to secure the attachment thereto.

The cross-pieces are provided with flanged or dovetailed guide-pieces *a*, that are slightly inclined toward each other, so as to wedge the flanged base of the posts C C securely when attached thereto.

The supporting cross-pieces and guide-pieces are entirely out of the way for the common saw-mill purposes, and admit the attaching of the posts without any hinderance.

A post, C, is secured to each corner of the carriage, and a third one to the center cross-piece B.

The corner posts C are slotted at the upper ends, to form bearings for the pivots *b* of a swinging bar, D, with rigid end pieces or arms at right angles thereto. The posts C are of proper height, so as to accommodate the mean radius of the logs.

The swinging bar D is provided with dogs D′, that slide in guide-slots *d*, and are operated by an eccentric lever-cam, E, and pivoted connecting-rod E′, so as to be firmly applied to the quarter log for holding the same. From the center of the swinging bar D extends at right angles an arc-shaped arm, F, with a square rack, F^1, at one side, and a beveled rack, F^2, at the other side, into which a hand-lever, G, and a spring-pawl, G′, of the middle post C enter, so as to adjust the swinging bar to any inclination thereon.

When the logs are quartered on the saw-mill and the knees run out of the way, the posts C are inserted into the guides of the cross-pieces, and the swinging bar and racks hung and secured by the lever and pawl. The quarter log is then clamped by the sharp dogs to the swinging bar, and cut up any width up to fourteen inches wide, and sawed with the grain in the same manner as if rived out to the thickness of seven-eighths of an inch on sap edge and three-eighths of an inch on heart edge.

The quarter log is fed to the action of the saw by the hand-lever and pawl, that are adjusted in the teeth of the racks, the teeth corresponding to the thickness of the boards to be cut from the quarter log. The barrel heads or staves are then cut from the tapering

boards so obtained in any suitable manner, the attachment dispensing with riving, and producing uniform boards with the same saw that is used for common saw-mill purposes.

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

The combination of the supporting corner and middle posts C C and of a swinging log-carrying bar, D, having arc-shaped arm F and racks F^1 F^2, with the adjusting-lever G and locking spring-pawl G′, substantially as and for the purpose set forth.

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