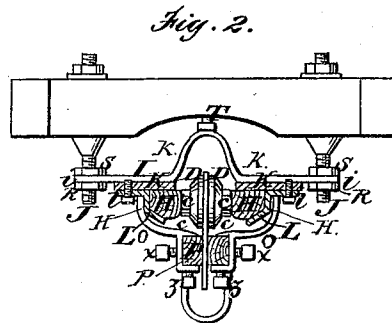
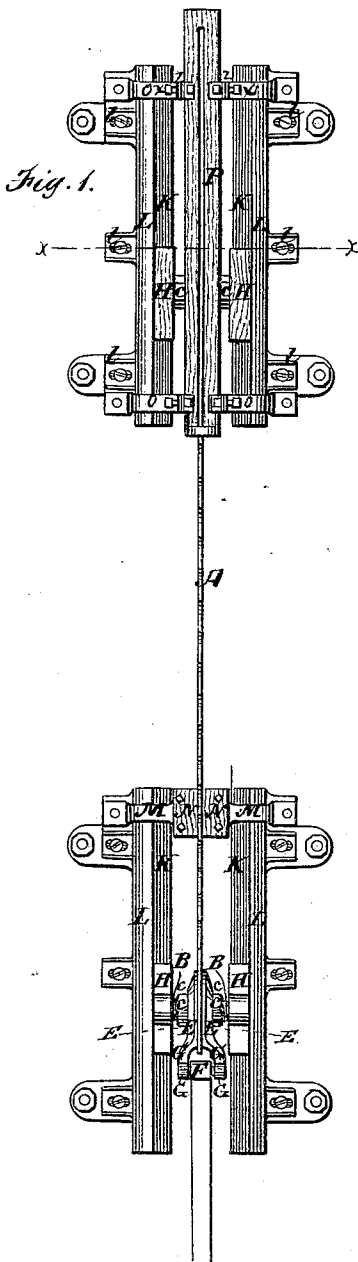


A. D. CLARK.

Frames and Guides for Muley Saws.

No. 151,355.

Patented May 26, 1874.



WITNESSES

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Melville Church, By

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UNITED STATES PATENT OFFICE.

ALFRED D. CLARK, OF HILLSBOROUGH, OHIO, ASSIGNOR TO N. SPEAR, OF
SAME PLACE.

IMPROVEMENT IN FRAMES AND GUIDES FOR MULEY-SAWS.

Specification forming part of Letters Patent No. **151,355**, dated May 26, 1874; application filed
October 20, 1873.

To all whom it may concern:

Be it known that I, ALFRED D. CLARK, of Hillsborough, in the county of Highland and State of Ohio, have invented a new Improvement in Frame and Guide for Muley-Saws; and I do hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front elevation of my improved muley-saw and its frame, and Fig. 2 is a transverse section in the line *x x*, Fig. 1.

Similar letters of reference in the accompanying drawings denote the same parts.

My invention relates to improvements in muley-saw mills, as hereinafter more fully set forth.

In the accompanying drawings, A represents the saw. B B are spindles passing through the saw A and collars D D at the upper end, and through the collars or jaws E E at the lower end of the saw, and which are secured by nuts *c c c c*. From the collars or jaws E E are projections or ears G G extending outward and downward, through the lower terminus of which is a wrist, F, to receive the box of pitman. Upon the outer ends of spindles B B are slide-blocks H H, made of wood or other suitable material, all of which is more fully and particularly described in my patent of December 3, 1872. I represents the back or cross-pieces of the upper and lower frames, curved outwardly, from which the ears *i i* project beyond the body or main part of the frame, and through which pass the bolts or studs J J into the mill-structure, where they are steadily secured. The planes or bases K K of the upper and lower ways have secured to them the adjustable front guide-flanges L L, by means of the slotted ears *l l*, and, when combined as indicated, form the receptacle or way for the passage of the slide-blocks H when connected with the spindles B B, which pass through either end of the saw A, as above described. These front flanges L L are made removable or adjustable by means of the slots and bolts,

so as to admit of convenient means of setting up the saw, and to compensate for any wear of the slide-blocks H H. Upon the bent arms M, which are secured to the base or plane K of the lower frame, and which project forward nearly to the saw, are fastened the lower saw-guide blocks N, for the purpose of preventing vibrations of the saw at that point. In combination with the upper frame are guide-block arms having jaws, as shown, in which are set-screws *x x*, for the purpose of bringing the saw-guide block P into proper vertical alignment, and also set-screws *z z* for holding this guide-block at any elevation, according to the size of the log to be sawed; the object of this latter being to bring the upper saw-guide blocks down as near the log as is possible and leave a free passage therefor, thereby preventing to the fullest extent the vibrations of the saw. It will thus be seen that the saw is supported by these guides immediately above and below the log whatever may be the size thereof. The saw-guide frames are secured to the frame of the mill-structure by means of the bolts or studs J J, having nuts R and S thereon in front and rear of the ear-pieces *i i*, so that these saw-guide frames may be regulated or adjusted in vertical planes, and in the same plane with each other, notwithstanding the frame of the mill-structure may be out of true. A log-screw, T, is also screwed into the mill-timbers behind the arch or bend of the cross-pieces I, and, after the adjustment of the saw-frame, is screwed outward against said arch, and thereby braces, supports, and steadies said saw-guide frames when, for any cause, the adjustment throws them out of contact with the timbers.

Having thus described my invention, what I claim as new is—

1. The combination, in saw-guide frames, of the curved flanges L L and base-plates K K and I, provided each with slotted ears for the reception of screw-bolts to compensate for the wear of the slide-blocks, substantially as described, and for the purpose set forth.

2. The combination, in a saw-guide frame, of

the double set of arms *o o*, provided with jaws, and having set-screws *x x* and *z z*, whereby the guide-blocks may be adjusted substantially as described, and for the purpose set forth.

3. The combination, with the frame of a mill-structure, of the bolts or studs *J J*, pro-

vided with nuts *R S* thereon, and the log-screw *T*, whereby the saw-guide frames may be adjusted and secured, as set forth.

ALFRED D. CLARK.

Witnesses:

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