# H. C. Ellinwood,

## Converting Motion.

No. 51,029. Patented Nov. 21, 1865.

Fig. 1.

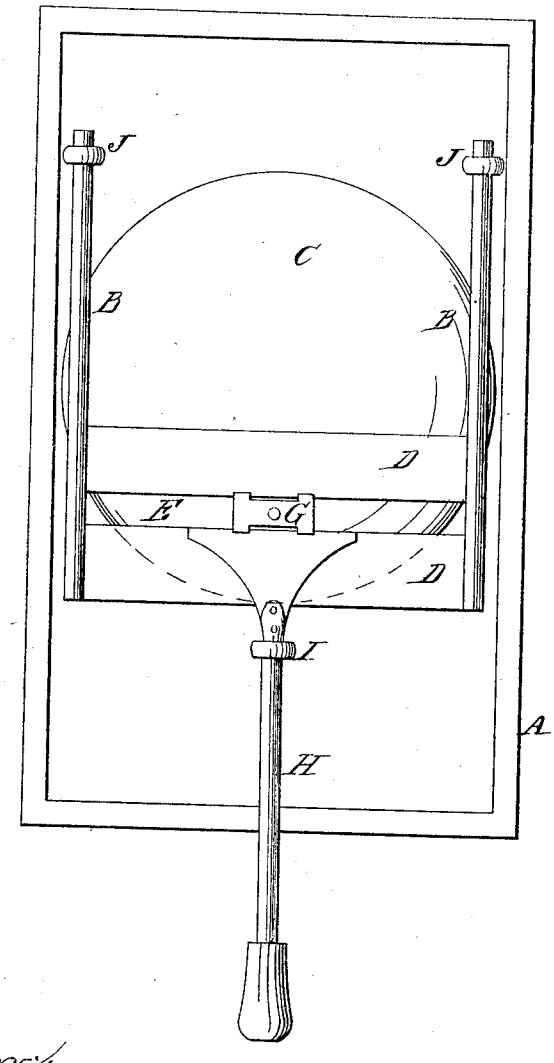
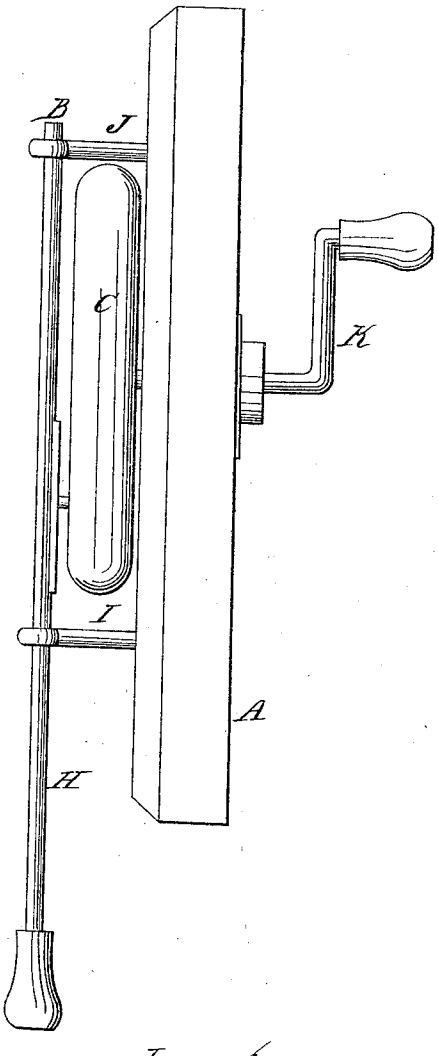



Fig. 2.




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

# UNITED STATES PATENT OFFICE.

HARRISON C. ELLINWOOD, OF GARRETTSVILLE, OHIO.

## IMPROVEMENT IN PITMEN FOR SAWS.

Specification forming part of Letters Patent No. **51,029**, dated November 21, 1865; antedated November 18, 1865.

*To all whom it may concern:*

Be it known that I, HARRISON C. ELLINWOOD, of Garrettsville, Portage county, State of Ohio, have invented new and useful Improvements in Pitmen to be attached to Muley-Saws; and I do hereby declare the following to be an exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the arrangement and combination of a double guide, operated by a continuous slide movement to operate (as a short pitman) a muley-saw.

The object is to place the saw near to the driving-wheel by a short gearing to prevent the trembling motion of the saw and give it a more regular operation, producing a smoother and more even sawing.

Figure 1 represents a front view; Fig 2, a side view.

A represents the frame to which the guide-rods B and driving-wheel C are attached.

The traveling frame D, which takes the place of an ordinary wrist and pitman, is permanently fastened to the guides B. This frame has an opening, E, through its center with grooved edges, in which the continuous slide G operates. The slide G is attached to the driving-wheel by a bolt through the center of the slide, the slide being of an oblong shape with grooved ends corresponding with the grooves at the sides of the frame D at the opening E. The short gearing or rod H is permanently attached to the front of the frame D, and operates in an iron post, I, as its guide. A muley-saw is intended to be attached to the end of this rod H, which gears the saw closer to the driving wheel than as usual to the ordinary pitmen and wrist.

The guides B are iron rods extending beyond its square frame D, and operate in the ends of iron posts J.

K is the crank to which the engine is to be geared.

I do not claim a frame with a slide operating in it on a driving-wheel for driving a muley-saw; but

What I claim as my invention, and desire to secure by Letters Patents, is—

The arrangement and combination of the double guide-rods J with their frame, D, slide E, and rod H, operating as a short pitman, as herein described, and for the purposes set forth.

H. C. ELLINWOOD.

Witnesses:

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