HENRY C. McEWEN.

Improvement in Head Blocks for Saw Mills.

No. 125,750. Patented April 16, 1872.

Fig. 1.

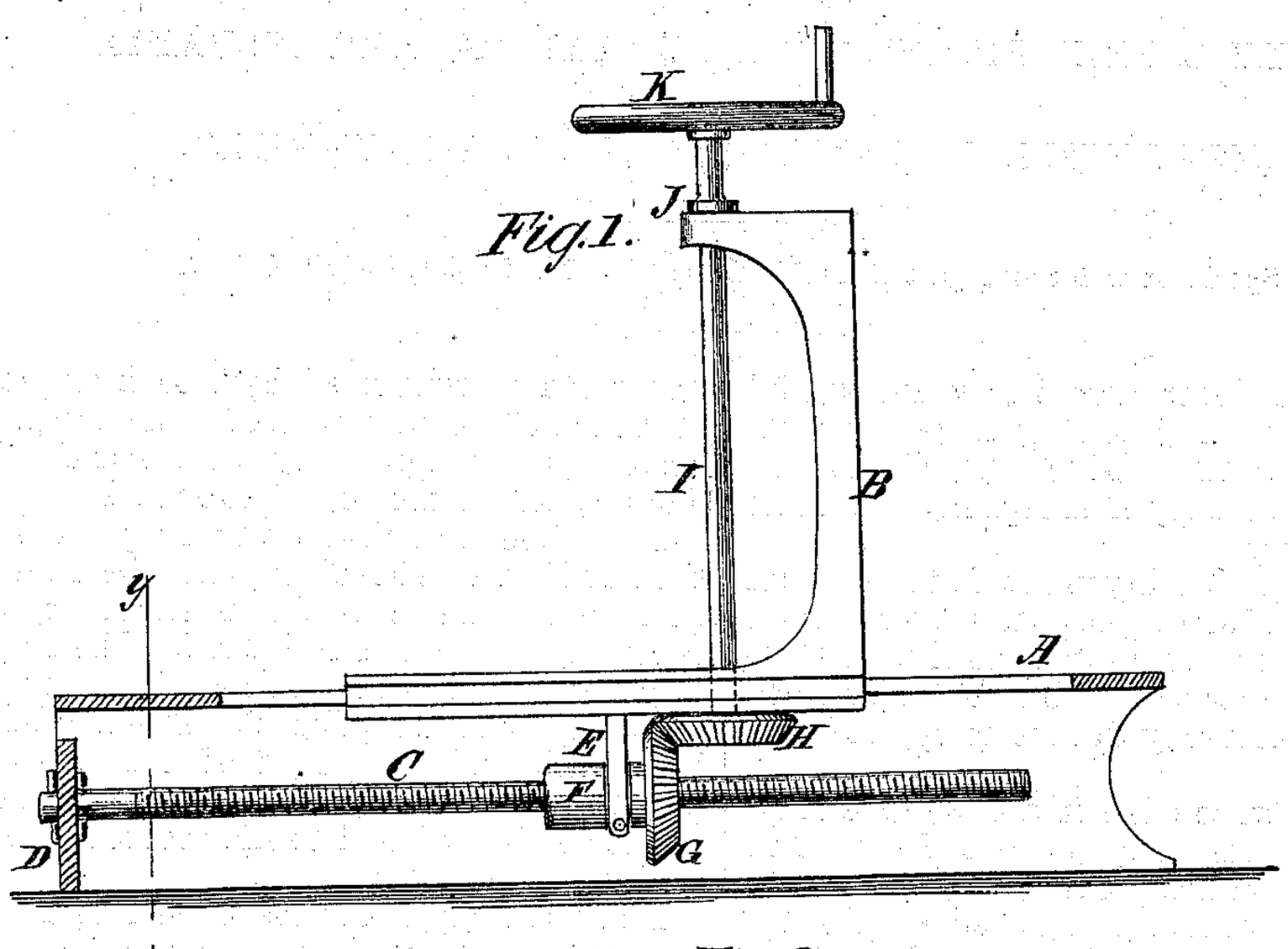
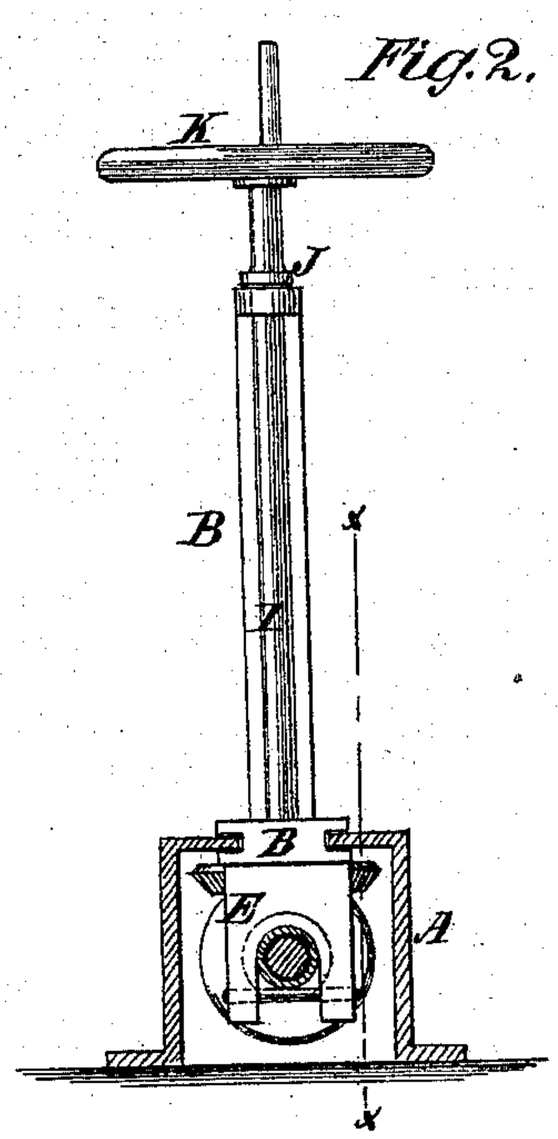


Fig. 2.



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UNITED STATES PATENT OFFICE.

HENRY C. McEWEN, OF OAKDALE STATION, PENNSYLVANIA.

IMPROVEMENT IN HEAD-BLOCKS FOR SAW-MILLS.

Specification forming part of Letters Patent No. 125,750, dated April 16, 1872.

Specification describing a new and useful Improvement in Log-Setting Apparatus, invented by HENRY C. McEWEN, of Oakdale Station, in the county of Allegheny and State of Pennsylvania.

The object of this invention is to facilitate the operation of setting logs to the saw in the process of sawing lumber, so that the thickness of the lumber sawed may be determined with greater accuracy than it is by the usual method.

The invention consists in a new mode of arranging the parts which operate the knee on a head-block, whereby the sawyer can reach the setting apparatus from the side of the log.

In the accompanying drawing, Figure 1 is a side elevation, partly in section, as through the line *x x* of Fig. 2. Fig. 2 is an end elevation, partly in section, as on the line *y y* of Fig. 1.

Similar letters of reference indicate corresponding parts.

A represents one of the head-blocks of the carriage upon which the log rests in being sawed. B is the knee, against which the log rests, and by means of which the log is moved up to the saw for each piece of lumber sawed. C is a horizontal screw, confined in the head-block as seen at D, so that it is allowed to revolve, but to have no longitudinal motion. It is connected with the knee by the stirrup E in a groove of the sleeve-nut F, as seen in the drawing. G is a bevel or miter wheel on the end of the sleeve-nut F. H is a bevel or miter wheel, which engages with G on the lower end of the vertical rod I. This rod passes through the horizontal portion of the knee, by which its lower end is supported. Its upper end is supported by a back projection at the top of the knee, where it is held in proper position, as to height, by the collar J. K is hand-wheel on the top of the rod I.

It will be seen that by turning this rod I the nut F will be revolved, and the knee will be moved on the head-block in either direction, according as the rod is turned. The connection of the knee with the head-block is seen in the cross-section, Fig. 2. The head-block is slotted, and the edges of the horizontal portion of the knee are grooved to fit the top of the head-block and to slide thereon, as represented in that figure.

I do not limit or confine myself to the precise form or arrangement of any of the parts described, as variations may be made without departing from my invention.

By this invention the sawyer can set the log with the greatest precision while standing erect.

This invention is more especially designed for the circular-saw mill, but may be applied to other kinds of saw-mills.

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

The arrangement of knee B, provided with stirrup E, with a nut-sleeve, F, having the bevel-wheel G on one end, and the feed-screw C passing through it, as described, so that the hand device H I J K may operate the knee, as set forth.

HENRY C. McEWEN.

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