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JOHN M. COMINS.

Improvement in Head Blocks.

No. 122,228.

Patented Dec. 26, 1871.

Fig. 1.

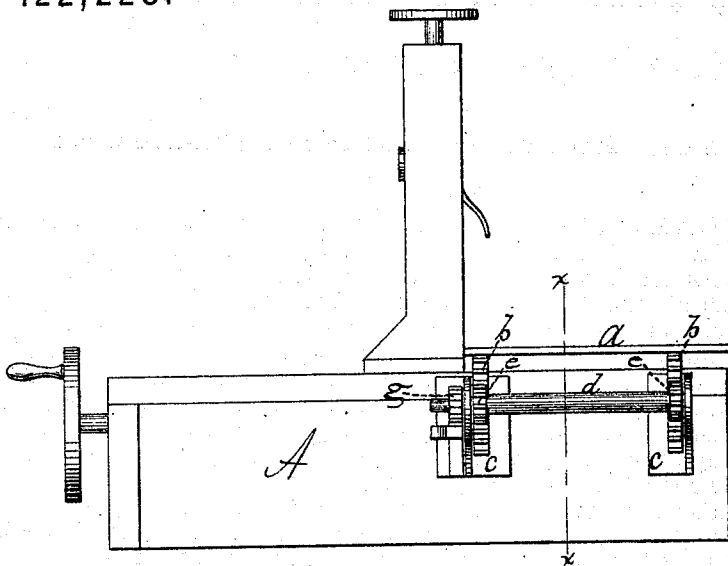


Fig. 2.

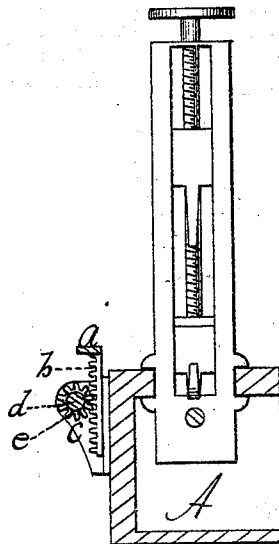
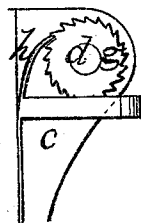


Fig. 3.



Witnesses.
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UNITED STATES PATENT OFFICE.

JOHN M. COMINS, OF BOSCAWEN, NEW HAMPSHIRE, ASSIGNOR TO HIMSELF
AND AUSTIN G. KIMBALL, OF SAME PLACE.

IMPROVEMENT IN HEAD-BLOCKS.

Specification forming part of Letters Patent No. 122,228, dated December 26, 1871.

I, JOHN M. COMINS, of Boscawen, Merrimack county, New Hampshire, have invented an Improvement in Head-Blocks for Saw-Mills, of which the following is a specification:

Referring to the drawing, Figure 1 is a side elevation, and Fig. 2 a transverse vertical section. Fig. 3 is an end elevation.

This invention relates to an adjustable bar secured to one side of a head-block, and which can be raised or lowered, as may be required, for the support of the extremity of a crooked log, which, by reason of its shape, cannot rest its end upon the head-block itself.

In the drawing, A is the head-block. *a* is the aforesaid bar, the same being provided with vertical racks *b*, which extend downward from the bar *a* near the ends thereof. *c* are metal angle-bars fastened to the side of the head-block opposite the racks *b*, which bear against the angle-bars. *d* is a horizontal shaft mounted in the pro-

jecting parts of the angle-bars, and having pinions *e* situated within the plates *c*, which engage with the racks *b*. *g* is a ratchet on the shaft *d* outside one of the plates *c*, and with said ratchet engages a spring-pawl, *h*, secured to the adjacent plate *c*. By means of a lever applied to the shaft *d* the latter may be rotated so as to raise or lower the bar *a* to the extent requisite to cause the latter to support the end of a crooked log which cannot be supported by the head-block.

This arrangement is used in connection with adjustable dogs *j k*, the construction and operation of which I am aware are not new.

I claim as my invention—

The combination of the head block A, bar *a*, racks *b*, angle-plates *c*, shaft *d*, and pinions *e*, as specified.

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