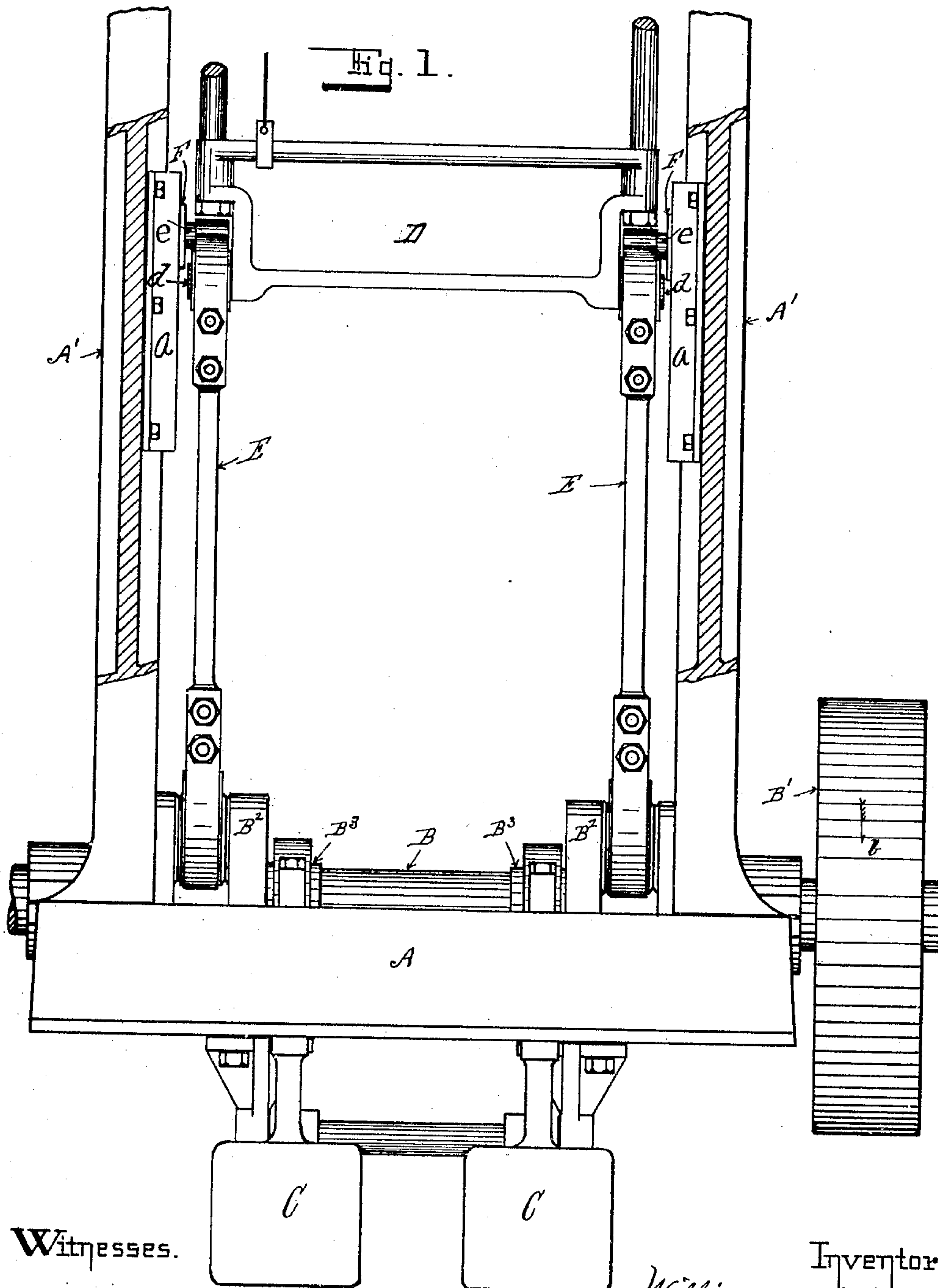


No. 869,537.

PATENTED OCT. 29, 1907.

W. M. WILKIN.
GANG SAW MILL.
APPLICATION FILED MAR. 7, 1907.

2 SHEETS—SHEET 1.



Witnesses.

W. R. Wilkin
G. J. Mad.

Inventor.

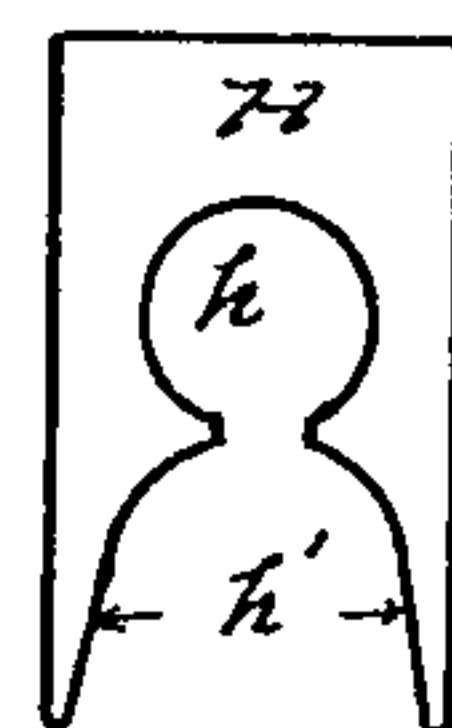
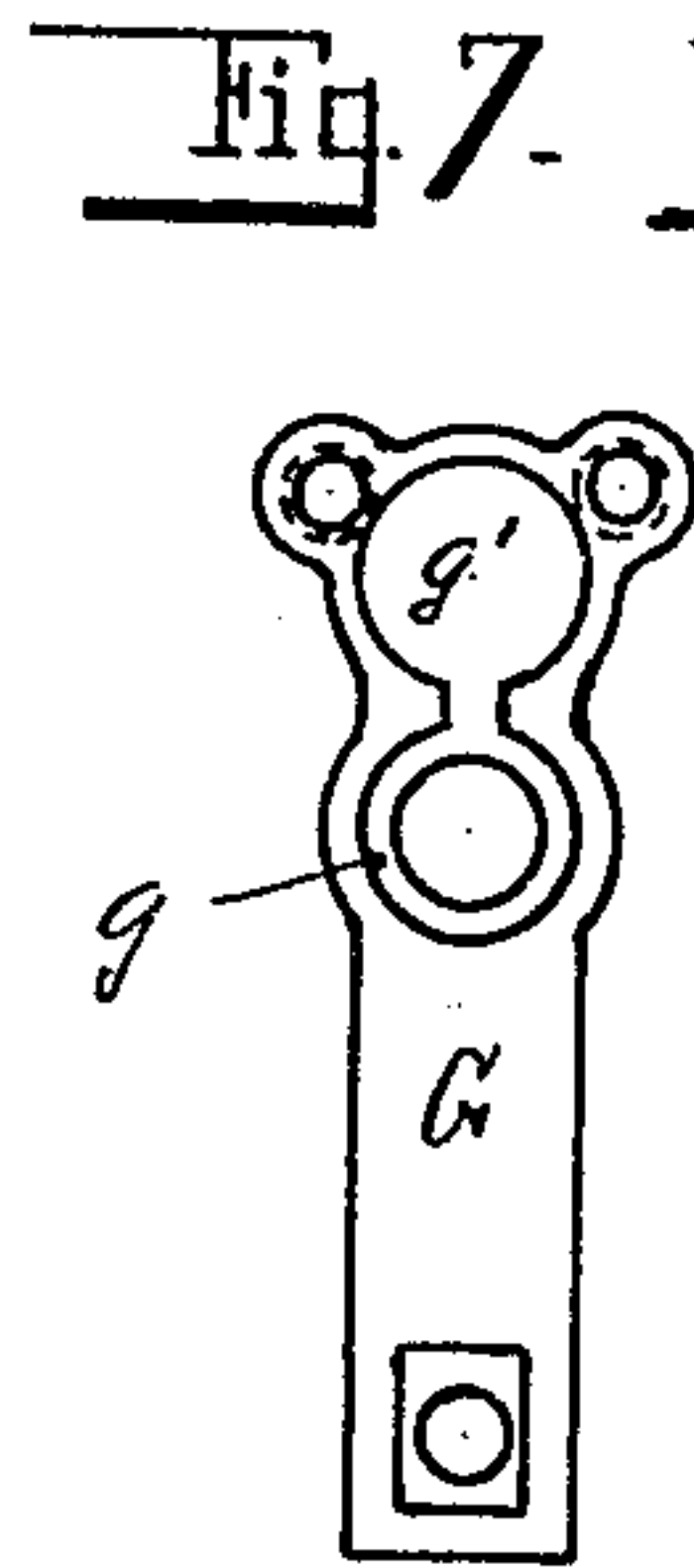
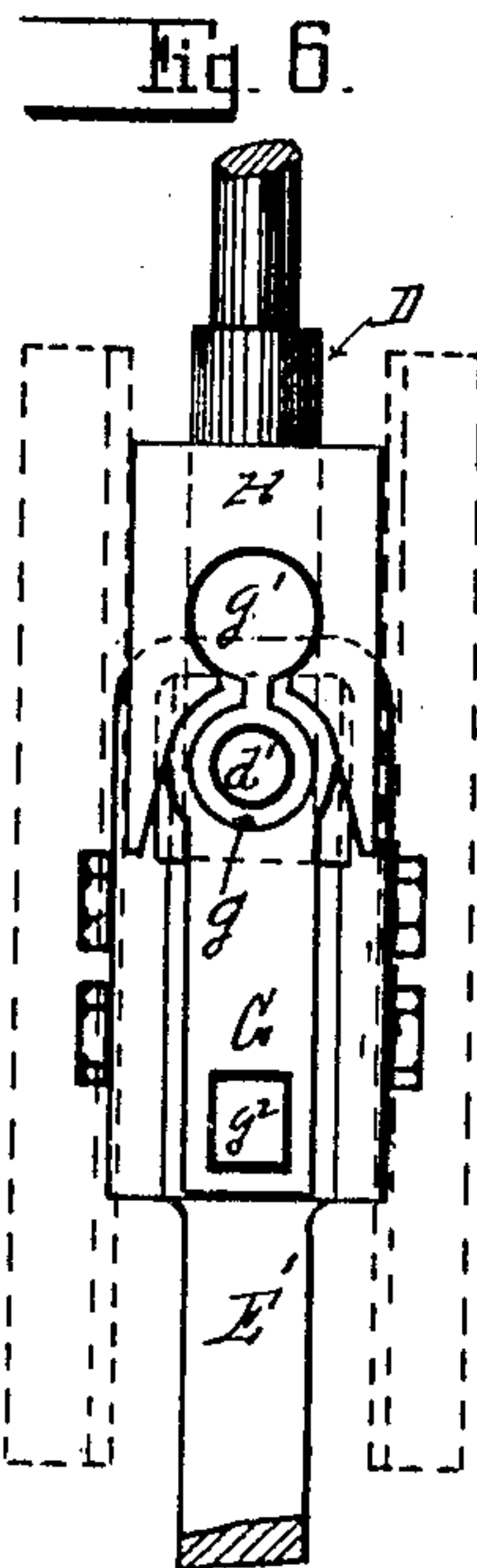
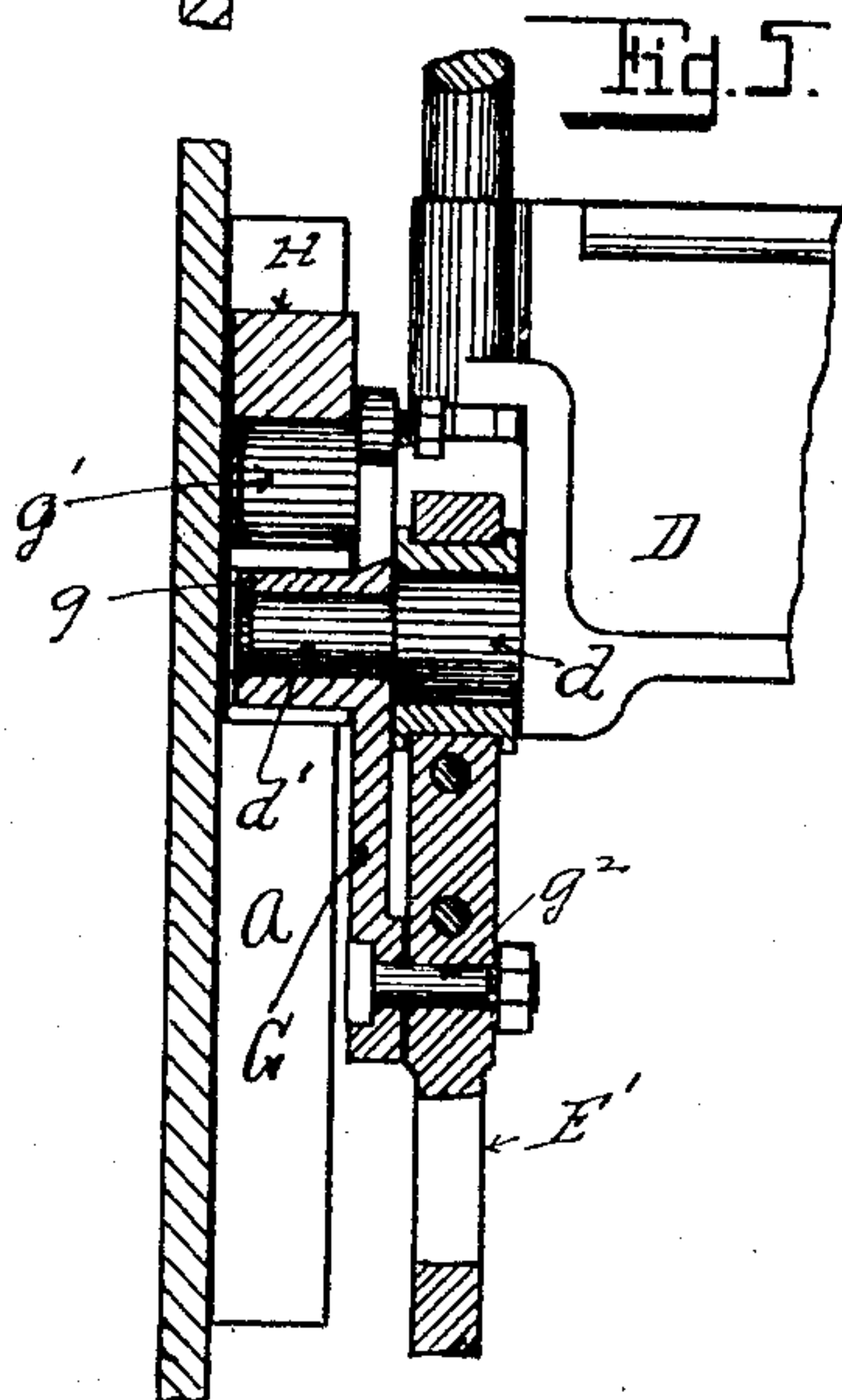
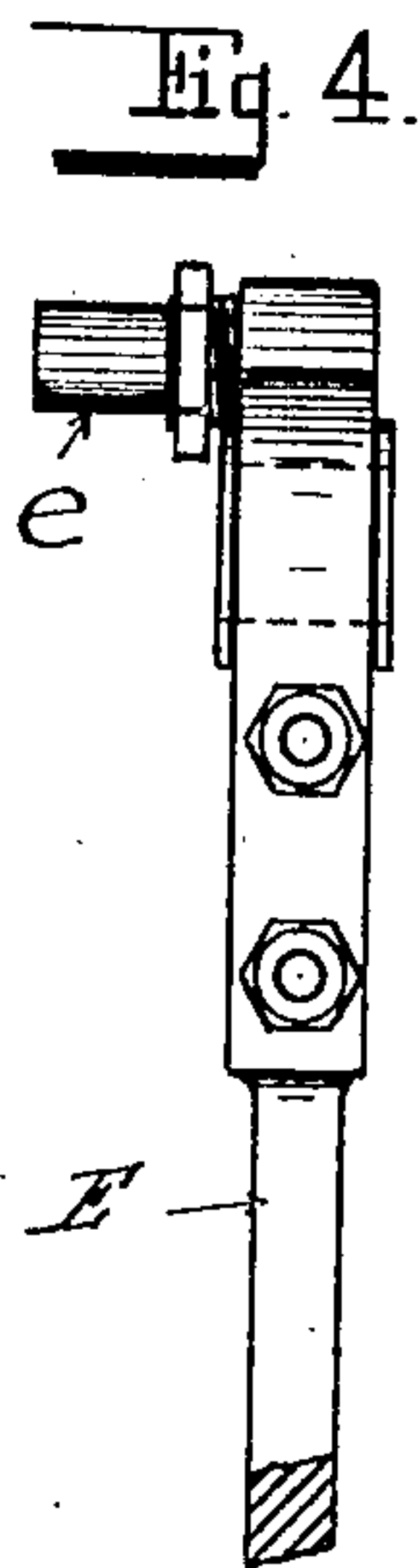
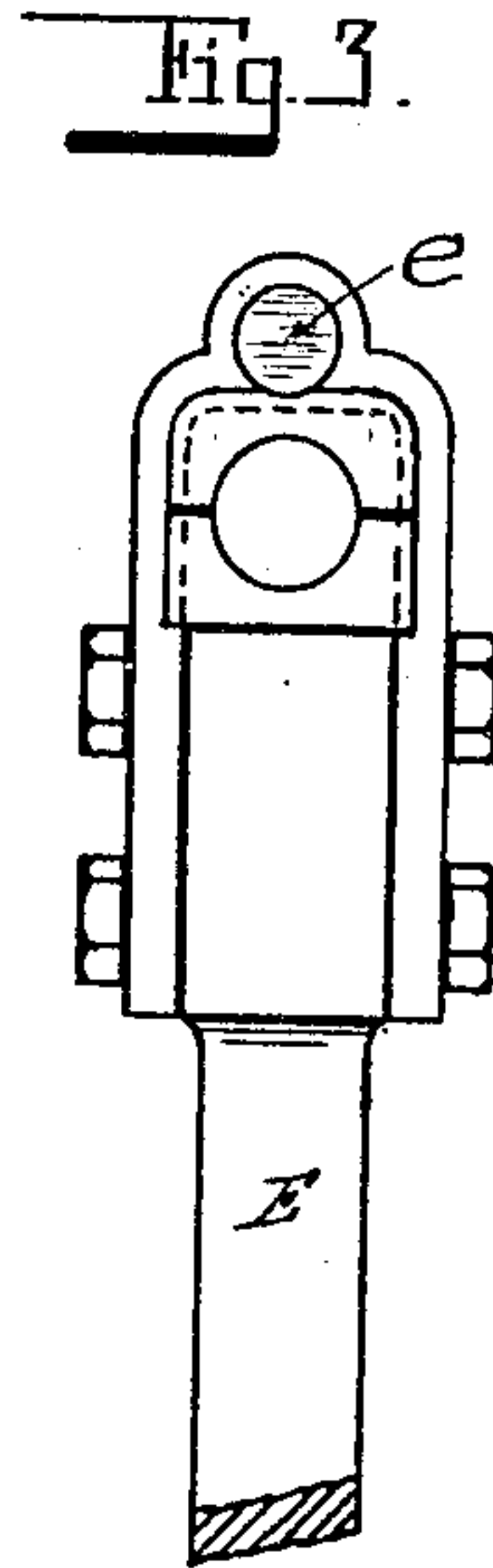
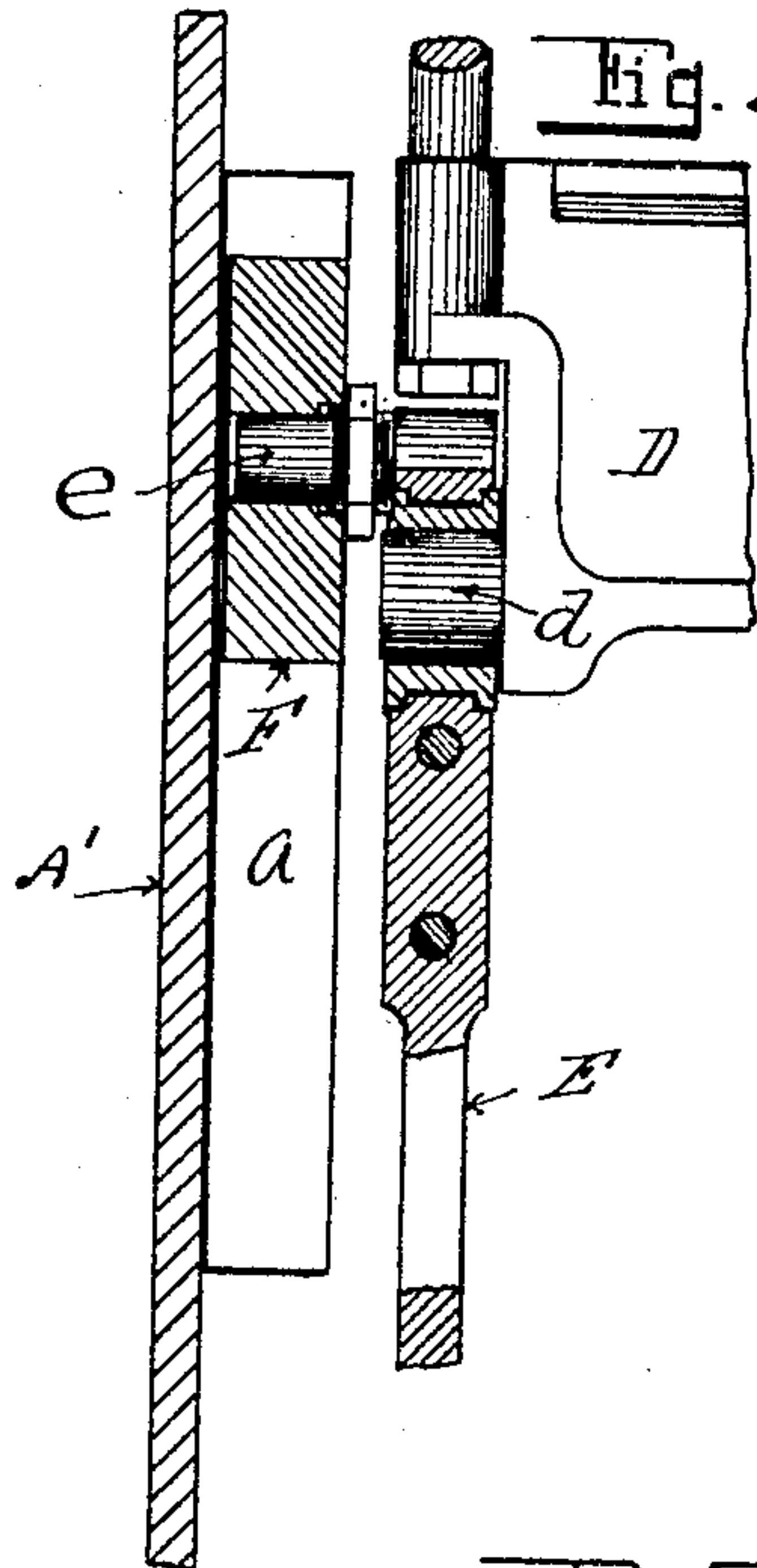
William M. Wilkin
By J. C. & H. M. Sturgeon
Atty's

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2 SHEETS—SHEET 2.



Witnesses.

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G. J. Mead

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UNITED STATES PATENT OFFICE.

WILLIAM M. WILKIN, OF ERIE, PENNSYLVANIA.

GANG-SAW MILL.

No. 869,537.

Specification of Letters Patent.

Patented Oct. 29, 1907.

Application filed March 7, 1907. Serial No. 361,061.

To all whom it may concern:

Be it known that I, WILLIAM M. WILKIN, a citizen of the United States, residing at Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Gang-Saw Mills; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, forming part of this specification.

My invention relates to gang-saw mills, and has for its object the improvement in mechanism for moving the lower end of the saw-sash forward on its downward traverse and backward on its upward traverse, and consists substantially in the mechanism hereinafter set forth and explained, and illustrated in the accompanying drawings, in which:

Figure 1 is a front view in elevation of the lower portion of a gang-saw mill, embodying my invention, with feed and press roll mechanism left off. Fig. 2 is a detail view partially in elevation and partially in section embodying one end of the lower saw-sash girth in elevation, and other parts in section. Fig. 3 is a side view in elevation of the upper end of one of the saw-sash pitmen. Fig. 4 is an edgewise view of the same. Fig. 5 is a detail view of a modified construction of my improvement. Fig. 6 is a side view in elevation of a modified construction of the upper end of the modified pitman. Fig. 7 is a detail view in front elevation of a part of the upper end of the modified pitman. Fig. 8 is an edgewise view of the same. Fig. 9 is a view of one of the slides of the modified construction, operating in the guides on the mill-frame.

In these drawings illustrating my invention, A is the base, A' A' the uprights of the mill-frame, *a a* the lower sash-guides, thereon, B the main shaft, B' the driving wheel thereon, B² B² the sash operating cranks thereon, and B³ B³ the counter-weight eccentrics therein, and C C the counter-weights, all of the usual construction.

The lower girth of the saw-sash D, is cut away at its lower corners, and in the construction illustrated in Figs. 1 & 2 is provided with laterally projecting horns *d d*, upon which the upper ends of the pitmen E E from the cranks B' B' are pivoted, and on lateral extensions *e*, clearly shown in Figs. 1, 2 & 4, on the upper ends of the pitmen E E, I pivot slides F, which operate vertically in the lower guides *a a* on the uprights A' A' of the mill-frame.

In Figs. 5, 6, 7, 8 & 9 I have shown a modified construction of the upper ends of the pitmen and the slides

connected therewith. In this construction the saw-sash girth D is provided with horns *d* as above described, upon which the upper ends of the saw-sash pitmen are pivoted; and on the ends of the horns *d* there are extensions *d'* preferably of somewhat smaller diameter than the horns *d*, which extensions *d'* extend into the guides *a*. To the side of the upper end of the pitmen E', I secure an arm G, (see Figs. 7 & 8) provided with a sleeve *g* adapted to fit on the extension *d'*, and a stud *g'* above the sleeve *g*. This arm is preferably secured to the pitmen E' by a bolt *g*². Upon the stud *g'* I pivot the slide H, (Fig. 9) the stud *g'* fitting into the opening *h* therein. The lower part of the slide H is cut away at *h'* so as to not contact with the sleeve *g* extending therethrough when the slide *h* is being operated in the guides *a*. It is readily seen that both of the structures above described provide means whereby, as the shaft B is rotated in the direction of the arrow *b* the lower end of the saw-sash will be moved forward during its downward traverse, and backward during its upward traverse, so that the saws will cut into the log during its downward traverse and be freed therefrom on the upward traverse.

Having thus described my invention so as to enable others to construct and operate the same, what I claim as new and desire to secure by Letters-Patent of the United States is:

1. In a gang-saw mill, a mill-frame, saw-sash guides thereon, a saw-sash, laterally projecting horns on the lower girth thereof, saw-sash actuating pitmen pivoted on said horns, projections on said pitmen eccentric to the bearings of the pitmen on said horns, and saw-sash slides mounted on said projections and operating in the saw-sash guides, substantially as set forth.

2. In a gang-saw mill, a mill-frame, saw-sash guides thereon, a saw-sash, laterally projecting horns on the ends of the lower girth thereof, saw-sash operating pitmen pivoted on said horns, lateral studs extending from the sides of said pitmen eccentric to the bearings of the pitmen on said horns, and sash-slides pivoted on said lateral studs, and operating in guides on the mill-frame, substantially as set forth.

3. In a gang-saw mill, a saw-sash, a lower girth thereon having recesses cut in the lower corners thereof, laterally projecting horns on said girth in said recesses, sash operating pitmen having their upper ends mounted on said horns, projections on the upper parts of said pitmen eccentric to their bearings on said horns, and sash-slides mounted on said projections, substantially as set forth.

In testimony whereof I affix my signature, in presence of two witnesses.

WILLIAM M. WILKIN.

Witnesses:

W. R. WILKIN,
H. M. STURGEON.