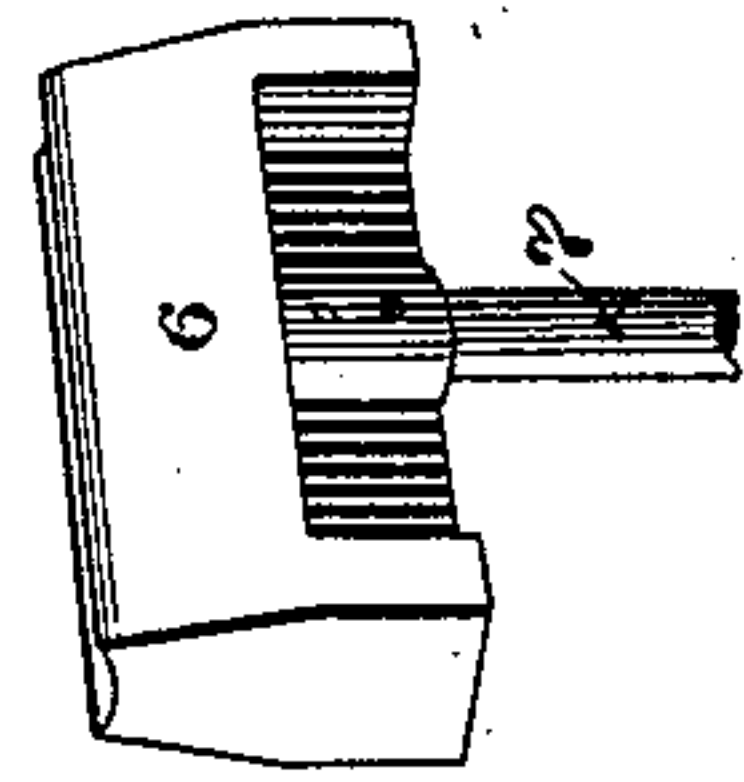
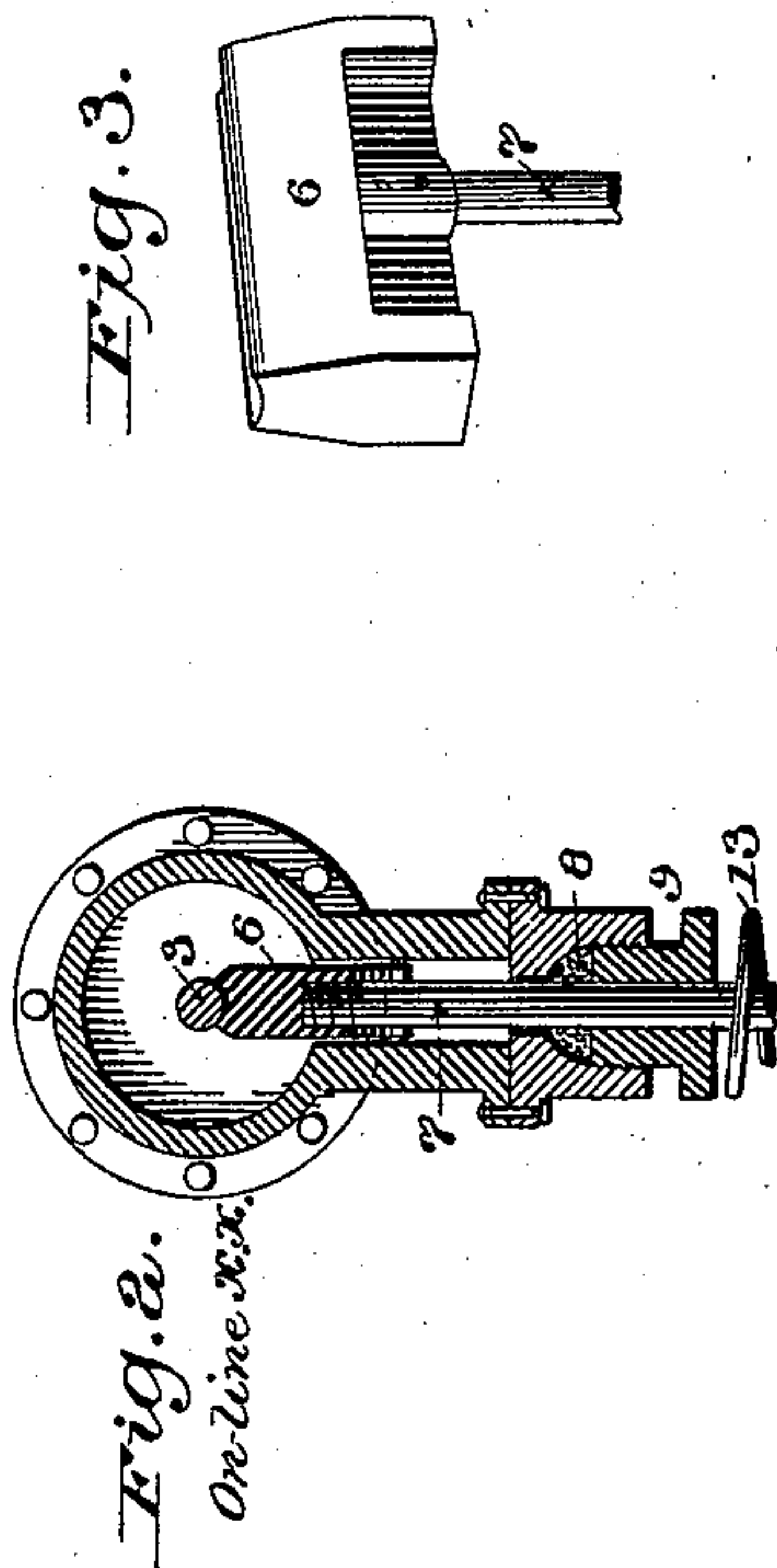
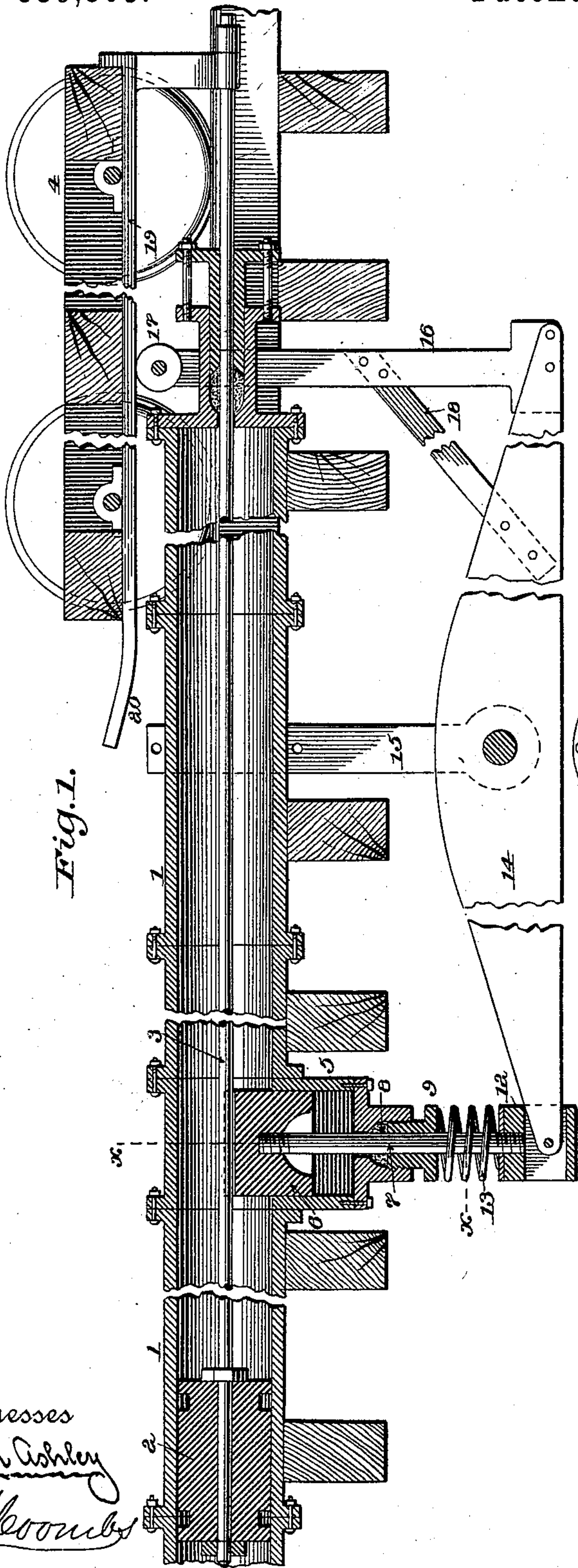


(No Model.)

C. REISER.
FEEDING MECHANISM FOR SAWMILLS.

No. 539,305.

Patented May 14, 1895.



Witnesses
Arthur Ashley
J. L. Coombs

Inventor
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UNITED STATES PATENT OFFICE.

CHRIST REISER, OF LAKE CHARLES, LOUISIANA.

FEEDING MECHANISM FOR SAWMILLS.

SPECIFICATION forming part of Letters Patent No. 539,305, dated May 14, 1895.

Application filed December 13, 1894; Serial No. 531,713. (No model.)

To all whom it may concern:

Be it known that I, CHRIST REISER, a citizen of the United States, residing at Lake Charles, in the parish of Calcasieu and State of Louisiana, have invented certain new and useful Improvements in Feeding Mechanism for Sawmills; 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.

My invention relates to improvements in what are known as steam shot gun feed saw mills, in which the carriage which carries the log is connected directly with a steam piston rod. In this class of feeding mechanism it is necessary to employ a very long cylinder and a correspondingly long piston rod. This piston rod owing to its great length, when in operation is liable to sag or bend causing the piston to drag in the cylinder rendering the machine inefficient.

The object of the invention is to provide improved means whereby the piston rod is supported intermediate its ends and the objection above stated obviated.

The invention consists in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 represents a sectional elevation of so much of a sawmill as is necessary to illustrate my invention. Fig. 2 is a detail perspective view. Fig. 3 is a detail perspective view of the vertically-movable block.

In the said drawings the reference numeral 1 designates the steam cylinder, 2 the piston and 3 the piston rod which may be of any ordinary or suitable construction. The piston rod is connected with a carriage 4, which may also be of any ordinary construction.

Located at any suitable point intermediate of the ends of the cylinder is a box or chest 5, in which is seated a vertically movable block 6, connected with a vertical rod 7, which passes through a stuffing box 8, secured to the under side of the chest 5, and provided with a gland 9. At the lower end of the rod 7, is a shoe 12, and between which and the

gland is a coiled spring 13. This shoe is connected with a lever 14, pivoted at or near its center to a depending bracket 15, secured to the cylinder. At its opposite end this lever has connected with it a vertical bar 16, provided at its upper end with a roller or gib 17, which projects up underneath the carriage. The numeral 18, designates a brace connected with said bar and lever. Secured to the under side of the carriage is a rail or track 19, having its end turned up as seen at 20, which rail travels in contact with the roller.

The operation will be readily understood.

As the carriage reciprocates back and forth the rail will bear down upon the roller depressing the bar 16, and actuating the lever causing the rod secured to the opposite end thereof to elevate the block and cause it to come in contact with the piston rod and support the same and prevent it from sagging. The spring 13, allows the block 6, to yield slightly so as to prevent its binding on the piston rod.

Having thus fully described my invention, what I claim is—

1. In a steam saw mill feeding mechanism the combination with the cylinder, the piston, the piston rod, the chest, the vertically movable block and its rod, the shoe, the lever pivoted thereto, the vertical bar secured to the opposite end of said lever, the roller at the upper end thereof, and the carriage and rail or track for depressing said bar, substantially as described.

2. In a steam saw mill feeding mechanism the combination with the cylinder, the piston, the piston rod, the chest, the vertically movable block and its rod, the shoe, the coiled spring, the lever connected with said shoe, and the vertical bar connected with the lever, of the carriage and the rail or track secured thereto for depressing said bar, substantially as described.

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

CHRIST REISER.

Witnesses:

S. ARTHUR KNAPP,
J. BANCROFT ELLIS.