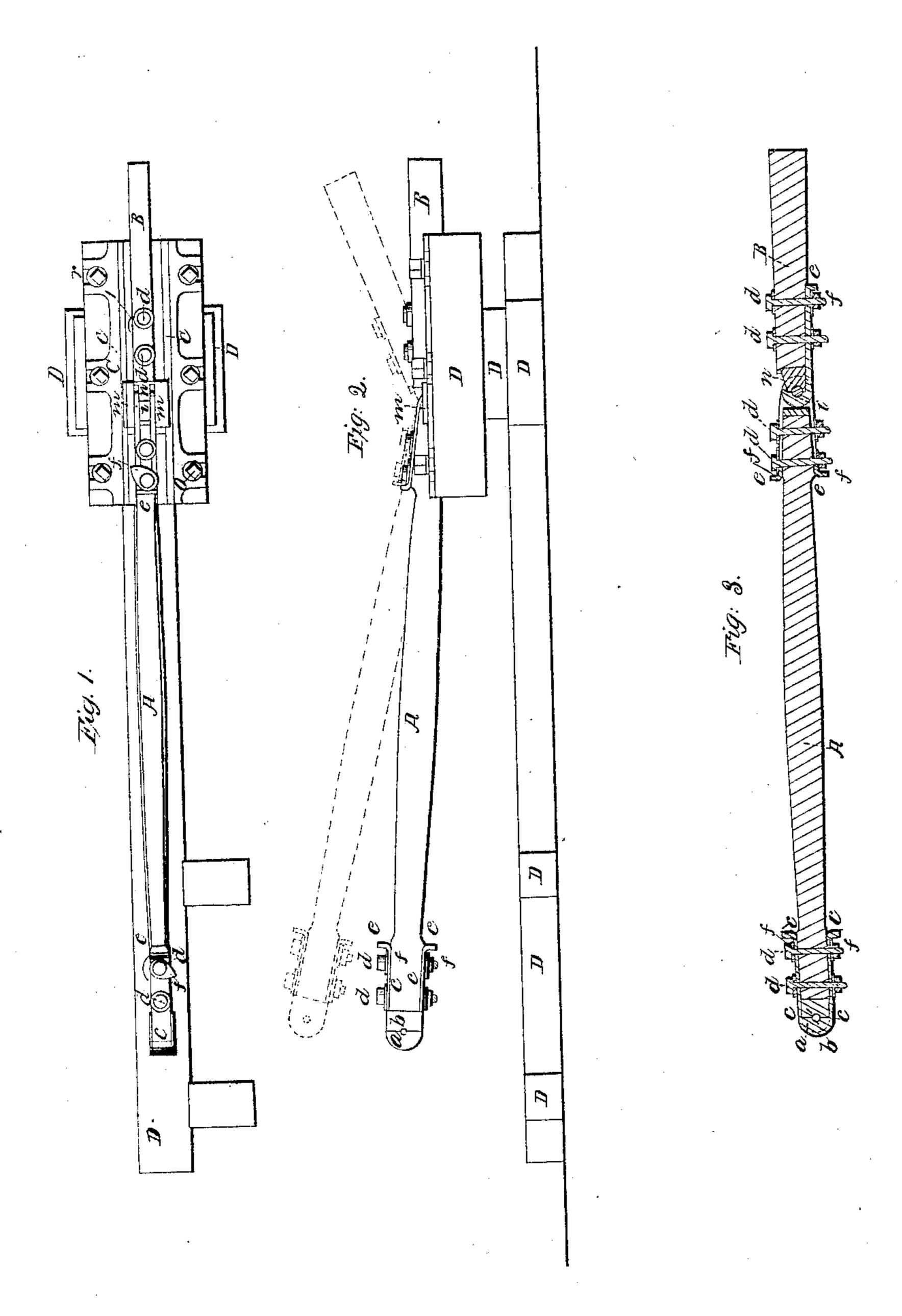
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11-49,917.

Patenteal Sept. 12,1865.



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United States Patent Office.

STUART PERRY, OF NEWPORT, NEW YORK.

IMPROVEMENT IN SAW-MILLS.

Specification forming part of Letters Patent No. 49,917, dated September 12, 1865.

To all whom it may concern:

port, in the county of Herkimer and State of New York, have invented certain new and useful improvements in pitmen or connecting-rods and cross-heads used therewith, and which, though designed for a sawing attachment for horse-powers, may be used in and applied to any other machinery where such things are ordinarily introduced or required; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a top plan of the apparatus. Fig. 2 represents a side elevation with the pitman and connecting in different working positions. Fig. 3 represents a longitudinal section through the pitman and connectingrod to show their hinged connection.

My invention consists, first, in the mode of constructing and tightening up the joints in the metallic bearings or boxes on the ends of | the pitman or connecting-rod, so as to prevent all jar, shackle, or back lash in the connections.

It further consists in a hook-connection between the metallic heads of a pitman and connecting-rod, which is readily connected and disconnected and very secure in its operation.

It further consists in combining a cross-head with the joint between the pitman and connecting-rod, so that each may have a hinged motion independent of the other.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same in connection with the drawings.

The words "pitman" and "connecting-rod" are used interchangeably in mechanics, and generally are applied to the piece or part between the motor and the thing moved. For the purpose of explaining my invention, I shall call the piece A a "connecting-rod," and the part B a "pitman," as it may be connected directly to what is termed a "drag-saw."

On the end of the connecting-rod next the jack or power there is a metallic head composed of two parts, ab, with a hole for the wristpin or crank by which it is driven. A strap, \bar{c} , goes around these two parts ab, and is bolted to the connecting-rod A by bolts d d. The ends of the strap are turned up, as at e, so as to form

a shoulder, against which a cam-shaped washer, Be it known that I, STUART PERRY, of New- | f, (one above and one below, if desirable,) may press or be drawn or driven for the purpose of taking up all the wear or shackle in the wristpin head, the bolt-holes through the strap being elongated or slotted to allow the strap to be drawn up, and when adjusted the nuts are run down tight and hold the cam-washer and strap in place. The opposite end of the connecting-rod may be similarly furnished with a metallic head and similarly adjusted or tightened up.

The pitman B has a metallic head upon it of somewhat different construction, but susceptible of the same adjustment. It is composed of a hook, i, and a tongue-piece, n, separated therefrom, but which, when in place, surround, or nearly so, the pivot of the joint. The part i in this case can be tightened up by a cam-washer, slot, and bolt, in the same way as that above described.

To the pivot upon which the rod and pitman or saw-arm vibrate I connect the pieces m, one upon each side of the joint, which pieces, with their connection or pivot, form the cross-head which traverses on the ways C C. These ways are so made as to be adjusted by means of the bolts o and slots r.

D represents a frame or timbers upon which the apparatus is supported.

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

- 1. The use of the strap and shoulder thereon, in connection with a cam nut or washer, for tightening up the box or bearing of pitman or connecting-rod heads, substantially as described.
- 2. The joint between the pitman or connecting-rod and saw-arm, composed of the metal head and strap and the hook and tongue, uniting with a common pivot, and made adjustable substantially as herein described and represented.
- 3. Uniting the cross-head to or with the joint between pitman and saw-arm, so that either may have motion independent of the other, substantially as described.

STUART PERRY.

Witnesses: JOHN G. BARRY, FRED E. ANGELL.