

(No Model.)

C. A. HAGUE.

DROP HAMMER.

No. 255,619.

Patented Mar. 28, 1882.

Fig 1.

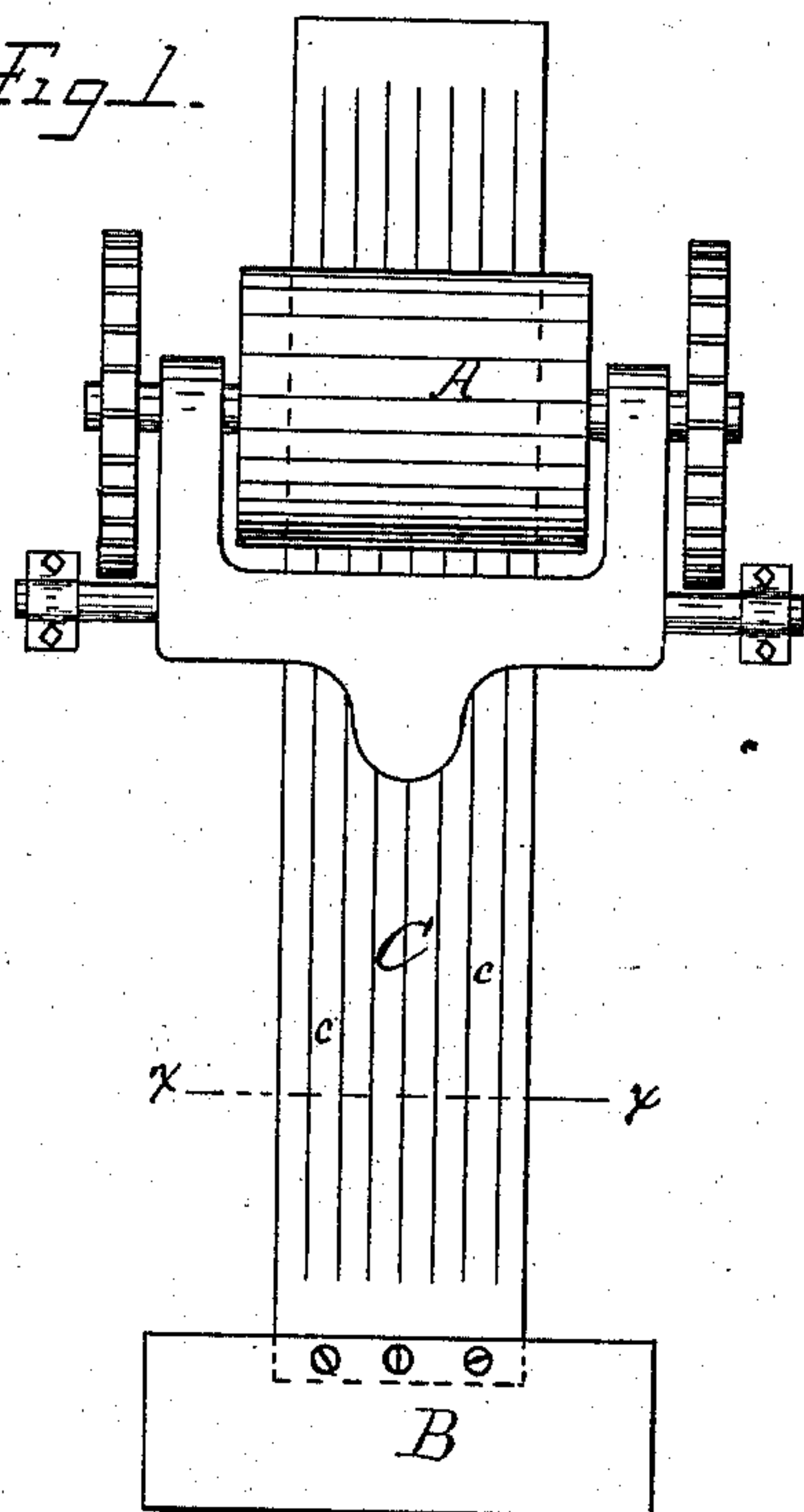


Fig 2

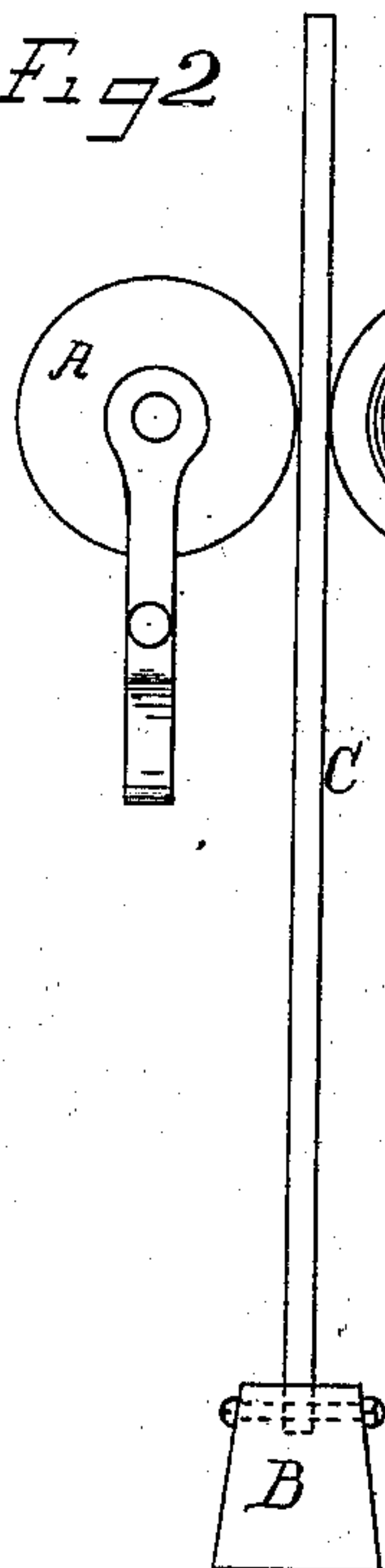


Fig 4.

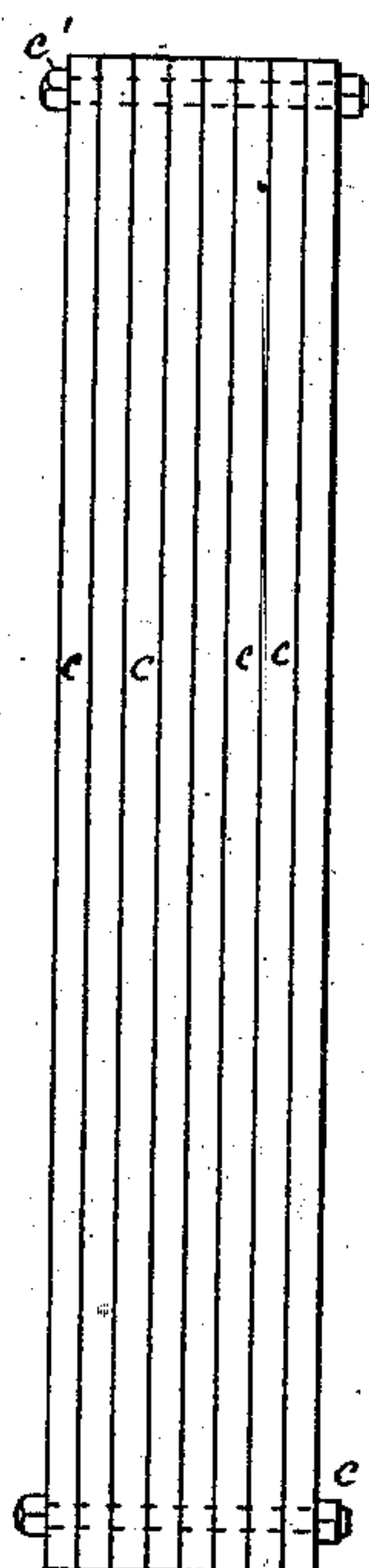
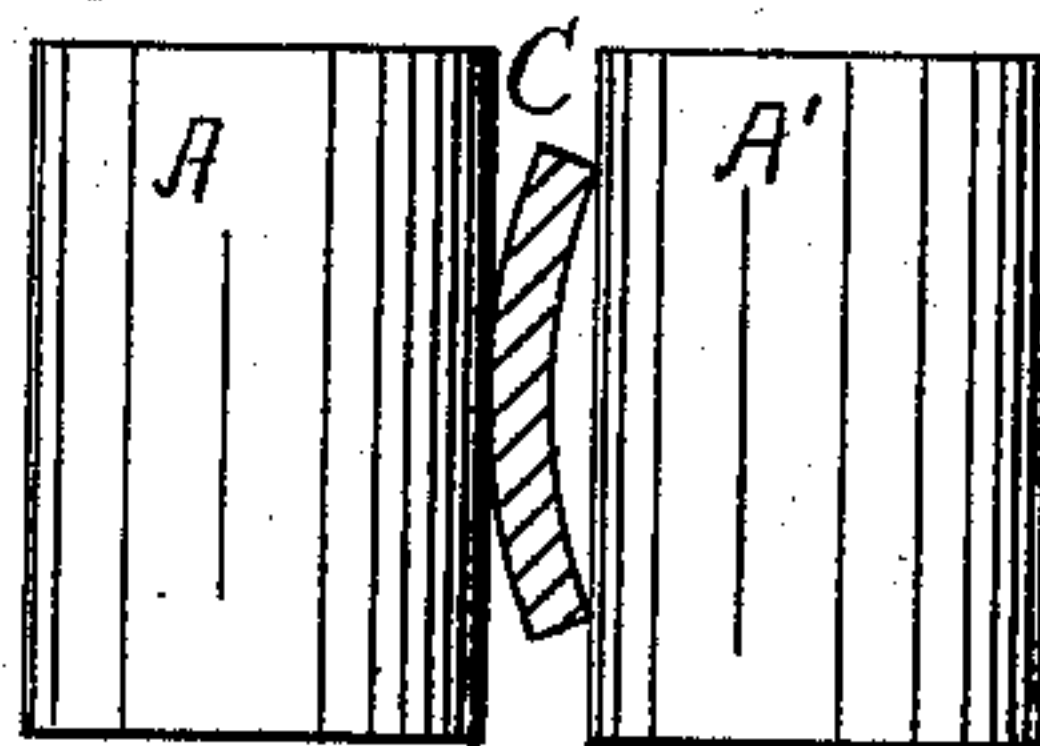


Fig 3.



Fig 5.



WITNESSES
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UNITED STATES PATENT OFFICE.

CHARLES A. HAGUE, OF CHICAGO, ILLINOIS.

DROP-HAMMER.

SPECIFICATION forming part of Letters Patent No. 255,619, dated March 28, 1882.

Application filed December 19, 1881. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. HAGUE, of Chicago, Cook county, State of Illinois, have invented certain new and useful Improvements in Drop-Hammers, of which the following is a specification.

The object of my invention is to provide improved means of raising the head or weight in drop or trip hammers, wherein friction or traction rolls are employed to operate the same through the medium of a flat strip of wood or board which is pressed between the rolls, the weight or hammer being secured to one end of said strip.

In this class of machines much difficulty heretofore has been experienced by reason of the wooden connecting board or strip, which is pinched between the revolving rolls and operated thereby, warping and splitting, so that the rolls touch the strip only at a few points, thus causing the said strip to slip between the rolls, and occasioning much irregularity and trouble in the practical operation of the machine. To overcome this difficulty I employ in my improved device a connecting bar or board, which is severed into a number of narrow strips, so that when the same is pinched between the revolving rolls it will always conform exactly to the longitudinal line of the roll-surface at the point where the contact takes place, and thereby secure a perfect bearing of the rolls upon the connecting bar or board. This may be done by sawing the ordinary connecting-board into a number of narrow strips, excepting at the ends, whereby the strips are held together; or the separate strips may be united by a bolt at each end, or the board may be sawed only partially through its thickness on one or both sides, and the requisite flexibility secured in that way. I, however, prefer the manner first indicated, as I consider the same the cheapest and best.

In the accompanying drawings, which form a part of this specification, Figure 1 is a front view of a device embodying my invention.

Fig. 2 is a side elevation of the same; Fig. 3, a section on line *xx* of Fig. 1, enlarged. Fig. 4 shows a modification; and Fig. 5 is a plan of a pair of rolls with the ordinary connecting-board between them, showing the nature of the bearing when the board becomes warped.

In the drawings, A and A' represent the friction or traction rolls of a drop-hammer; B, the head or weight; and C the connecting-board, which is pinched between the rolls. These rolls are mounted in the ordinary manner—one in the frame of the machine and the other in a movable yoke pivoted to the frame—so that at the pleasure of the operator the roll mounted on the yoke may be swung to or from the other, and thereby pinch or release the board, and thus raise or drop the weight, as desired.

I have not thought it necessary to a full understanding of my invention to show or describe the frame, the lever or device for swinging the yoke, or other parts of the machine, as their construction is well known.

The connecting-board C, to the lower end of which the weight is secured, is cut, excepting at the ends, into a number of narrow strips, *c*, whereby the same is made flexible, and so that it will conform perfectly to the surface of the rolls when pinched between them. If preferred, the board may be cut into strips throughout its entire length, as shown in Fig. 4, and the separate strips secured together by means of bolts *c'* at each end.

My invention may be applied to trip-hammers or any device wherein motion is to be imparted from traction or friction rolls through the medium of a connecting bar or strip pinched between the revolving rolls.

I claim—

The hammer-strap composed of a number of narrow strips united at their ends, substantially as specified.

CHARLES A. HAGUE.

Witnesses:

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