J. M. BALDWIN.

FULLING-MILL.

No. 175,641. Patented April 4, 1876.

Fig. 1.

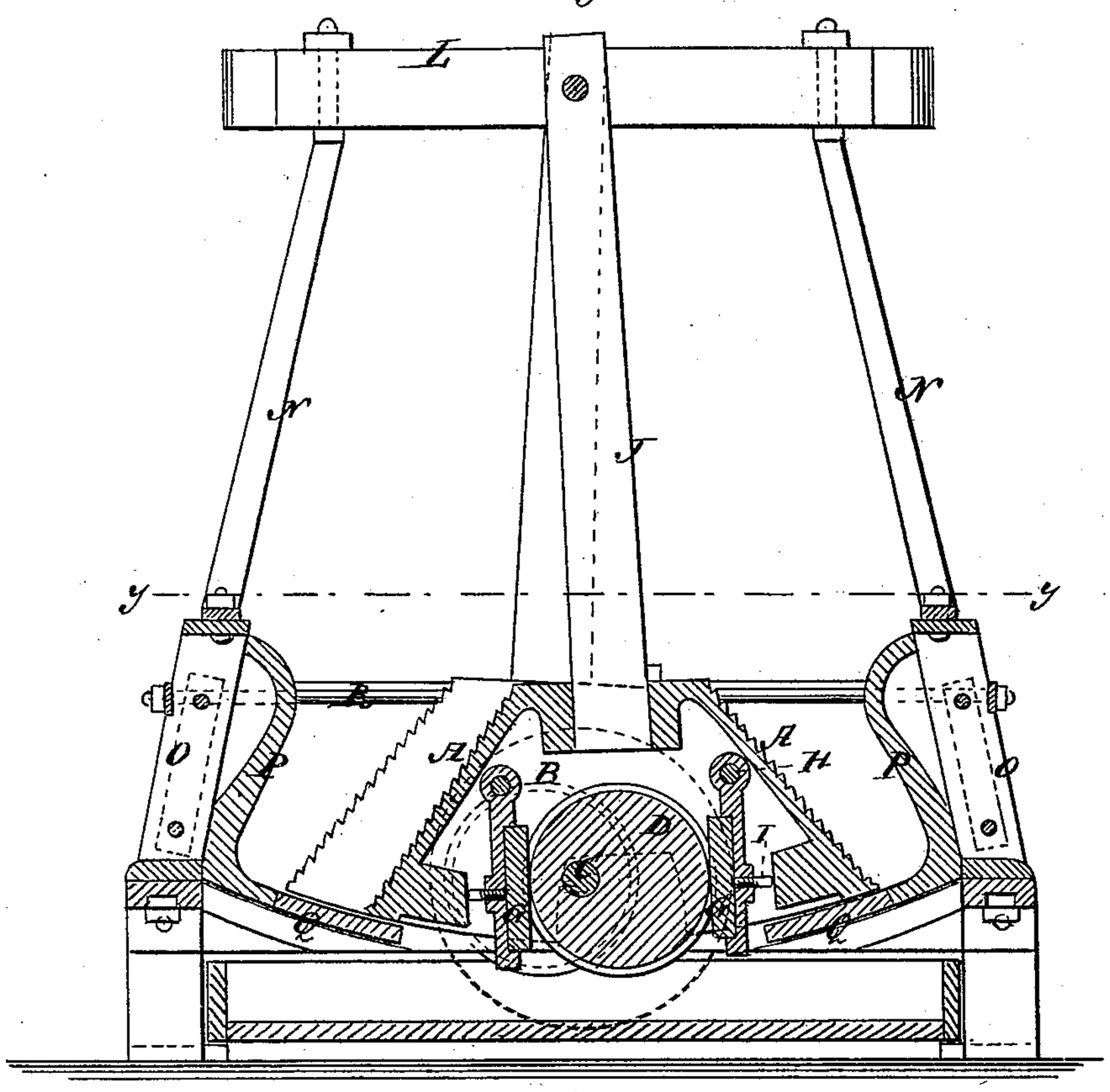

Fig. 2.

WITNESSES:

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UNITED STATES PATENT OFFICE.

JOEL M. BALDWIN, OF EVANS' MILLS, NEW YORK.

IMPROVEMENT IN FULLING-MILLS.

Specification forming part of Letters Patent No. **175,641**, dated April 4, 1876; application filed February 14, 1876.

To all whom it may concern:

Be it known that I, JOEL M. BALDWIN, of Evans' Mills, in the county of Jefferson and State of New York, have invented a new and Improved Fulling-Mill, of which the following is a specification:

My improvement in fulling-mills consists, essentially, of a shaft running through a middle opening in the hammer-heads, and working them by an eccentric in said opening, whereby a good deal of space is economized, as compared with the crank-pitman arrangement, the mill can run faster, and the whole contrivance can be located above the floor without inconvenience, whereas the pitman and crank arrangement has to be located in a pit to be out of the way.

My improvement also consists of a construction of the box and frame in part of metal, making a more permanent and desirable mill than the wood mills, which, owing to the damp localities in which they are located, and the nature of the work for which they are employed, soon rot away.

Figure 1 is a longitudinal sectional elevation of my improved mill, taken on line *x x* of Fig. 2; and Fig. 2 is a horizontal section of Fig. 1 on line *y y*.

Similar letters of reference indicate corresponding parts.

A represents the hammer-heads, which are constructed of metal, with a large middle opening, B, through which the shaft C passes, and in which is an eccentric, D, for working them. G represents bearing-pieces for the eccentric to act on, which are pivoted at H, and have adjusting-screws I to take up the wear. This arrangement is very compact, and it works easier and is capable of running much faster than the other. The hammer-bars J are, preferably, made of wood, in order to have the requisite stiffness and light weight, and they are pivoted to a wood cap, L, which, being located above the mill high enough to be dry, does not need to be of metal. The cap is mounted on a metal frame, N O. The end plates P of the mill are made of metal, also the bottom plates Q, the metal being of some non-corrosive composition; but the side plates R, which may be readily changed, may be made of wood.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination of the driving-shaft C, eccentrics D, and hollow hammers A, substantially in the manner described.

2. The adjusting bearing-plates G, in combination with the hammers A and the eccentrics D, substantially as specified.

3. The metal bottom plates Q and end plates P, wood side plates R, metal frame O N, and wood cap L, combined and arranged substantially as specified.

JOEL M. BALDWIN.

Witnesses:

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