

P. C. Pearson,

Hay Press,

No. 43,600,

Patented July 19, 1864.

Fig. 3.

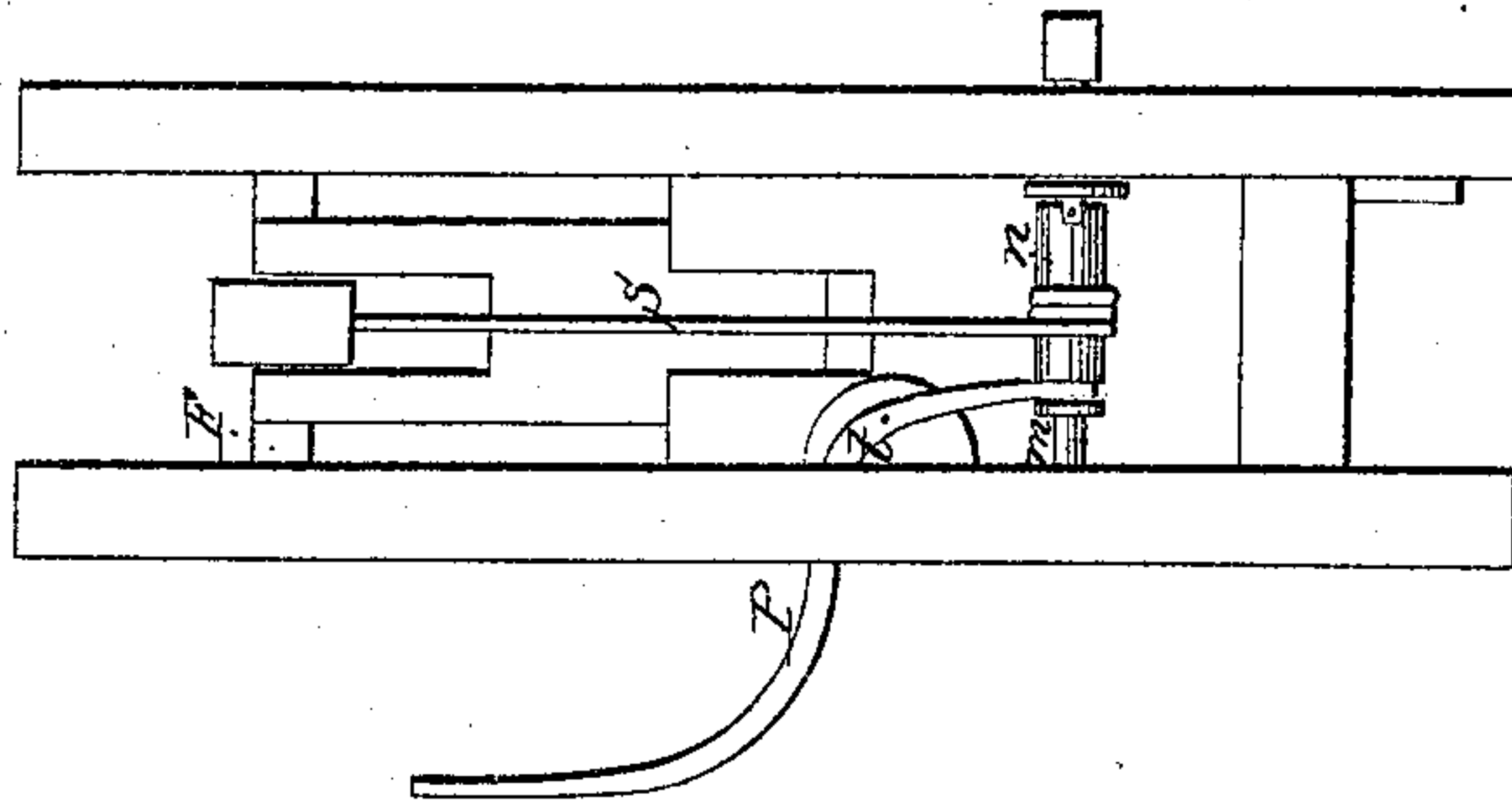


Fig. 2.

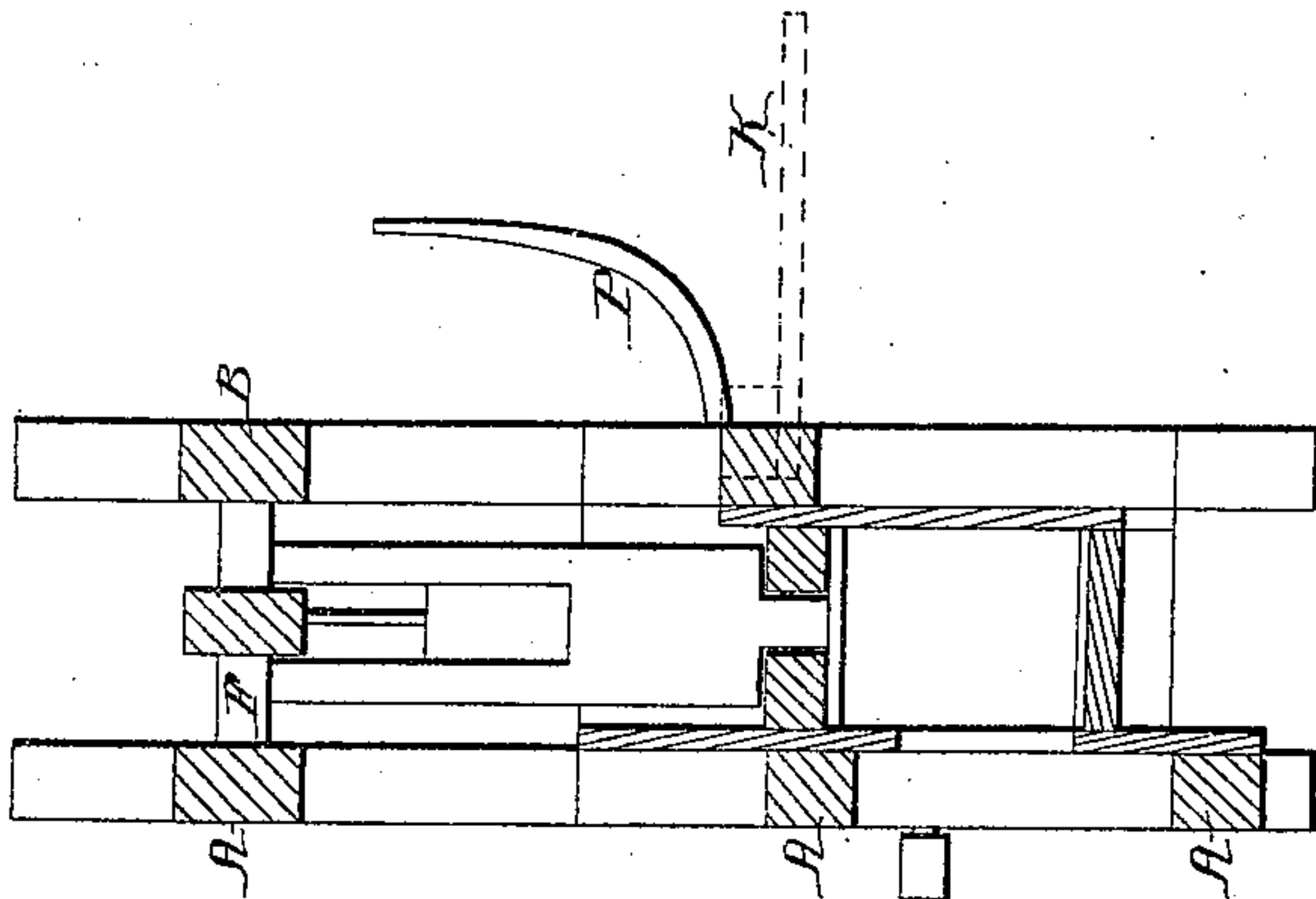
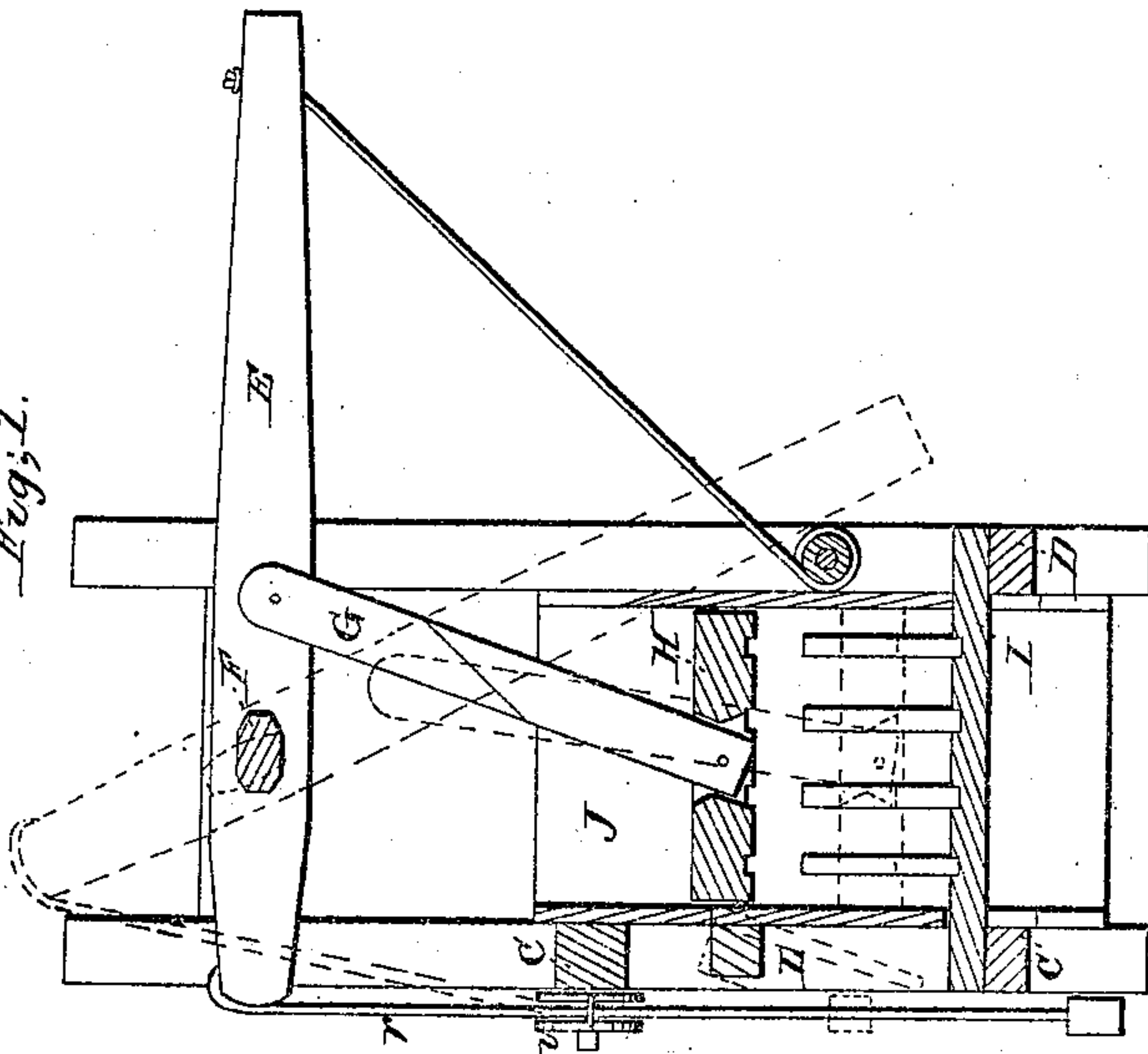


Fig. 1.



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UNITED STATES PATENT OFFICE.

PRESTON C. PEARSON, OF HARRISON COUNTY, INDIANA.

IMPROVEMENT IN HAY-PRESSES.

Specification forming part of Letters Patent No. 43,600, dated July 19, 1864.

To all whom it may concern:

Be it known that I, PRESTON C. PEARSON, of Harrison county, in the State of Indiana, have invented certain new and useful Improvements in Hay-Presses; and I hereby declare that the following is a true and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figures 1 and 2 represent vertical sections of my machine, taken at right angles with each other. Fig. 3 represents an end elevation of the same.

The frame of my press consists of four substantial pieces of timber placed in an upright position, and bound together at the rear side by three ties, marked A, and in front by one tie, marked B. The ties C C C bind the timber at one end of the frame, and the tie D the timbers at the opposite end.

E in Fig. 1 represents a lever, with its fulcrum F pivoted in the ties A and B. The lever E plays vertically on its fulcrum, as represented by dotted lines.

G represents a forked plunger, the lever E being made to work between the forks by means of a bolt, which passes through the lever and through both forks. At the lower end of plunger G the follower H is adjusted, in the center of which a mortise is made to receive a tenon on the end of plunger G, and is secured in that position by means of a bolt. In the bottom of follower H a number of lateral grooves are cut, for the purpose hereinafter mentioned.

I represents a platform resting on the ties C and D, near the bottom of the frame. It has a number of grooves cut in it corresponding with those in follower H, and also with the slots in the vertical board J, which forms the back of the press.

The dotted lines K represent the door in front of the press raised to a horizontal position to admit the hay or other material into the press. The door K is pivoted at its upper edge in the front parts of the frame. The dotted lines L represent a second door at the end of the press, which is also pivoted at its upper edge, and may be used for the same purpose with door K.

m represents a horizontal shaft passing through the end posts of the frame, and projecting at one end beyond the frame-post.

The projecting end is made square for receiving a crank, by which it is operated. On this shaft is the loose pulley n. On one end of n a groove is cut, into which the lever P fits. The lever P passes through a corner-post of the frame, and has its fulcrum at the point t. The opposite end of pulley n has slots cut in it to receive an iron pin, which passes through shaft m.

s represents a cord, one end of which is fastened to the pulley n and the other end to the long arm of lever E. To the short arm of lever E the cord r is fastened, which, in its descent, passes in a groove in pulley V, and at its lower end is attached to a heavy weight.

The operation of my machine is as follows: The door K being first raised to supply the press with the necessary quantity of hay, the long arm of lever P is pressed down, so as to force pulley n to the right until the pin in m enters the slot in u. By this arrangement the pulley will partake of the motion of shaft m. The crank is now turned from left to right, and the cord s wrapped around the pulley n. This operation gradually draws down the long arm of lever E, and with it the plunger G and follower H, which compresses the hay. The bale being now reduced to its proper size is firmly bound by means of cords or hoops, which are passed through the grooves in platform I, through the slots in J, and returned to the front through the grooves in H, and the ends securely fastened. The next step is to disengage the pulley n from the pin by means of lever P, and the weight on cord r draws down the short arm of lever E, and elevates the long arm to its original position.

Having thus described my press, what I claim, and desire to secure by Letters Patent, is—

The lever E, the follower H and platform I, the lever P, shaft m, the pulley or sleeve n, the pulley V and cord r, with weight attached, the whole constructed, arranged, and operated as and for the purpose substantially as herein set forth.

In testimony that I claim the foregoing I hereby affix my signature in the presence of two witnesses.

P. C. PEARSON.

Witnesses:

GEORGE O'CONNOR,
THOMAS E. DOOLEY.