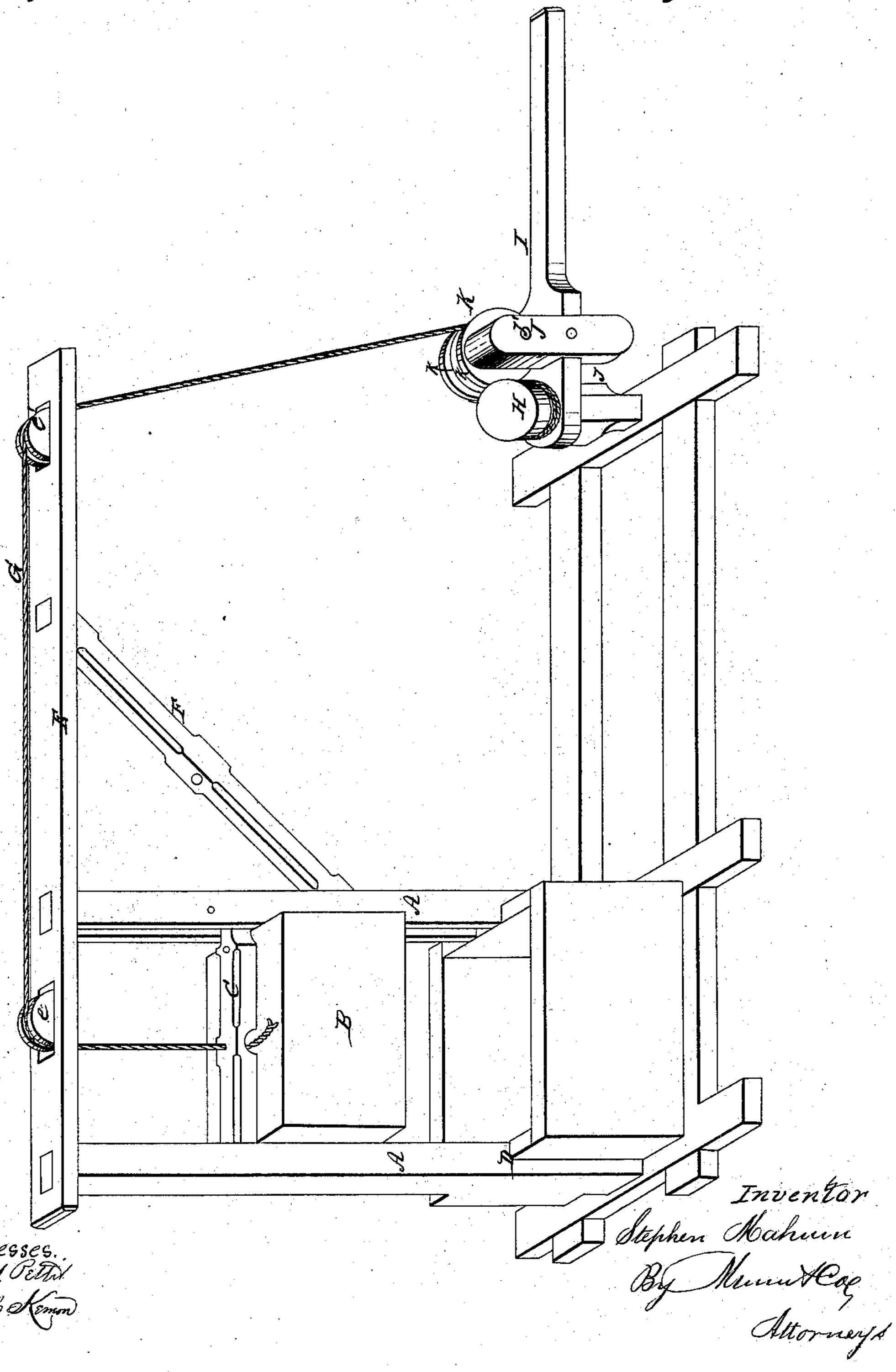
S. Manning,

Han Press.

Nº66,860.

Patented July 16, 1867.



Anited States Patent Pffice.

STEPHEN MAHURIN, OF LIBERTY, ILLINOIS.

Letters Patent No. 66,860, dated July 16, 1867.

IMPROVEMENT IN DROP-PRESS, FOR PRESSING HAY AND OTHER PURPOSES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I. Stephen Mahurin, of Liberty, in the county of Adams, and State of Illinois, have invented a new and improved Apparatus for Driving Piles, Pressing Hay, &c.; and I do hereby declare the following to be a full, clear, and exact description of the nature, construction, and operation of the same, reference being had to the accompanying drawings, forming part of this specification, and in which my invention is represented by a perspective view showing the apparatus in use as a hay-press.

This invention relates to an arrangement whereby a heavy weight may be raised, with comparatively little power, to any desired height, and then detached and allowed to descend by the force of gravity; and my improvement consists in the use of a revolving drum, having a continuous groove on its periphery, journalled one end of the operating-lever, which has its bearing in the stationary standard or drum, to which is attached one end of the rope or chain, whose other end is attached to the weight, and which passes over two pulleys in the top of the derrick or frame.

The lever being rotated, the rope is drawn over the pulleys and wound around the stationary drum, traversing meanwhile the groove in the revolving drum, until it reaches its outer extremity, when it runs off, and the weight is allowed to descend, the stationary standard or drum being of such a form and in such a position that the rope or chain will readily pass from it.

In the drawings, A A is the frame in which the weight B slides, its cross-piece C traversing grooves in the inside of the frame, as shown at a. This frame may be secured in a bed-frame (as shown in the drawings) attached to the floor of the barn or driven into the ground, or may be made portable, as occasion may require, the latter form being necessary for driving piles, fence-posts, &c. This frame is also provided with notches or openings in its lower end to support a box or frame in which to compress hay, &c., as shown at D, and at its upper end a horizontal cross-bar or arm, E, the outer end of which is supported by the brace F, and which is slotted to receive the pulleys e e', over which the rope G passes. H is the stationary drum, which may be secured in the same manner as the frame A, or, when that frame is portable, be kept separate, so as to lessen the size of the bed-frame and be driven into the ground at each operation. It is, however, preferable to have it attached to the same frame and immediately under the outside edge of the pulley e'. Having its bearing in this standard or drum, and revolving on it, is the lever I, which is provided with a perpendicular arm, J, on which extending below the lever, and strengthened laterally by the brace j journalled on the spindle j' of the arm J, is a revolving drum, K, which is provided with a continuous groove, k, its periphery, which groove is traversed by the rope or chain G in raising the weight, as before described. The drum K may be set at any desired angle on the lever, so that the groove may be brought more or less in a direct line with the acting side of the stationary drum. By extending or shortening the rope G the weight may be carried a greater or less distance before being released.

Having thus described my invention, what I claim therein as new, and desire to secure by Letters Patent, is—The revolving drum K, provided on its periphery with a continuous groove, k, in combination with the stationary drum H, lever I, rope G, pulleys c e', weight B, and frames A E F, substantially as and for the purpose described.

Witnesses:

R. STEVENS,

STEPHEN MAHURIN.