

(No Model.)

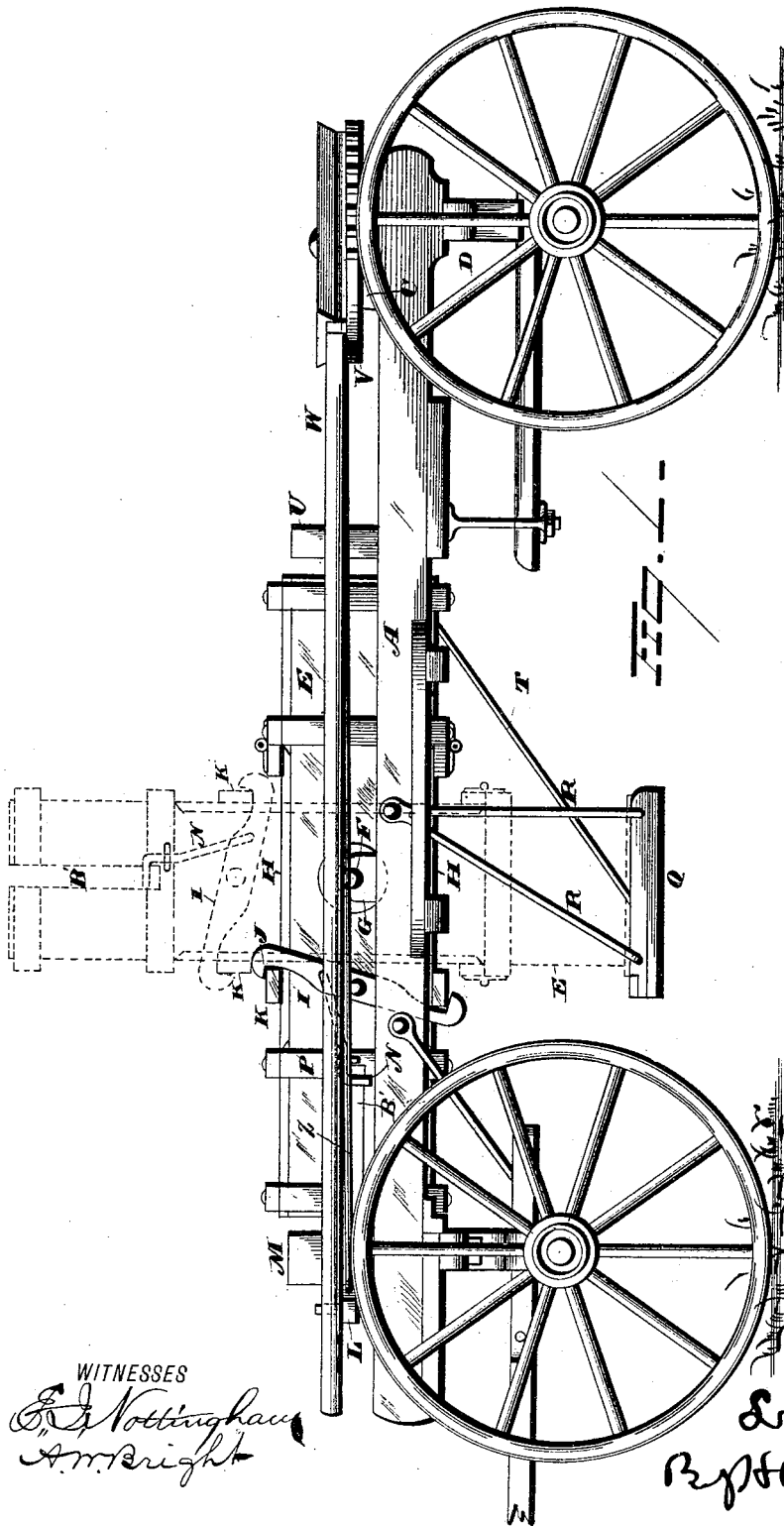
2 Sheets—Sheet 1.

L. G. PEEL.

HAY PRESS.

No. 266,718.

Patented Oct. 31, 1882.



WITNESSES

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A. M. Bright

INVENTOR

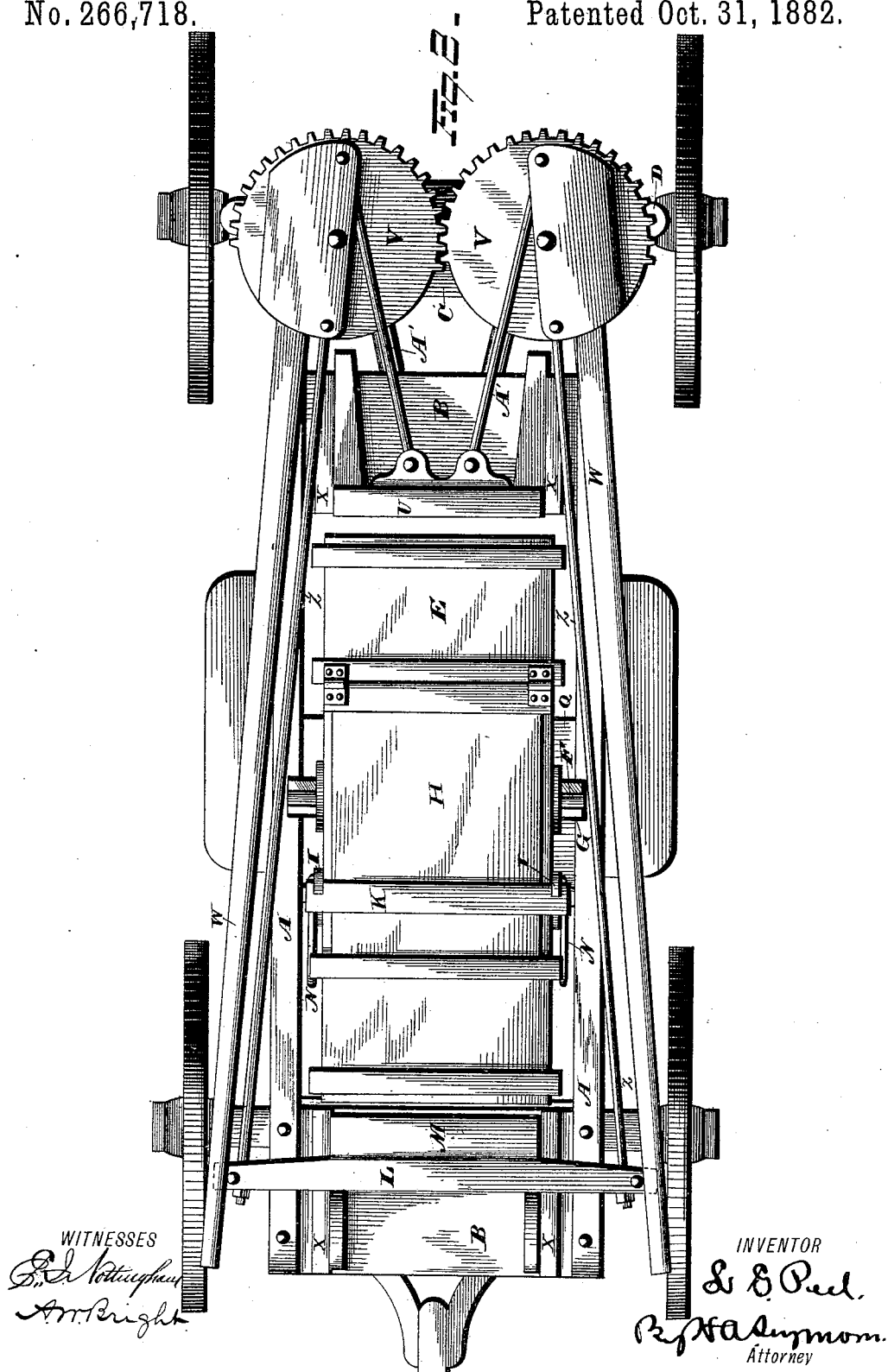
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UNITED STATES PATENT OFFICE.

LAWSON G. PEEL, OF HAZLEHURST, MISSISSIPPI.

HAY-PRESS.

SPECIFICATION forming part of Letters Patent No. 266,718, dated October 31, 1882.

Application filed April 29, 1882. (No model.)

To all whom it may concern:

Be it known that I, LAWSON G. PEEL, of Hazlehurst, in the county of Copiah and State of Mississippi, have invented certain new and useful Improvements in Hay-Presses; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

My invention relates to an improvement in devices for pressing hay, the object being to provide a device of this character which shall be particularly adapted for field use, and which shall combine simplicity and cheapness of construction with durability and efficiency in use. With these objects in view my invention consists in certain details of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in side elevation of a carriage provided with hay-pressing devices constructed in accordance with my invention, the filling position of the hay-receptacle being indicated by dotted lines; and Fig. 2 is a plan view of the devices shown in Fig. 1.

The pressing devices are mounted in a frame composed of the side beams, A, the platforms B, and the platform C, the said beams being supported upon the bolsters D of the carriage.

The hay-receiver consists of a long rectangular box, E, having open ends, and provided with short axles F, which are journaled in blocks G, secured to the beams A. The upper and lower faces of the said box E are provided with hinged doors H, adapted to be locked in their closed adjustment by levers I, which are pivotally secured to the sides of the box, the opposite faces of the upper and lower ends of the said levers being cut away at J to adapt them to engage with the cross-bars K, secured to the doors H. When the hay in the box is being compressed these doors are locked in closed adjustment by the said levers, which, however, are automatically disengaged from the cross-bars K at the completion of the approaching motion of the followers by the engagement of the beam L of the follower M with the levers N, pivotally attached to the locking-levers I, the said levers N being reciprocated in grooves formed in the braces P.

When the box is to be filled with loose hay it is turned into the vertical position, in which it is shown by the dotted lines in Fig. 1 of the drawings. In this position the open lower end of the box is closed by the swinging platform Q, which is suspended from the side beams, A, by the rods R, a hook, T, serving to hold it in place to close the bottom of the box E, into the open upper end of which the loose hay is thrown. After the box has been filled it is restored to a horizontal position, in which its open ends are adapted to receive the followers M and U, which are simultaneously moved toward or from each other by the rotation of two disks, V, mounted on the platform C and actuated by the hand-lever W, the opposing edges of the disks being provided with cogs which interlock.

When not employed in the compression of hay the followers are supported upon the platforms B, which are provided with guides X to maintain the followers in positions of readiness to enter the open ends of the box E. The motion derived from the rotation of the disks V is imparted to the follower M by two rods, Z, which respectively connect the opposite ends of the beam L with the disks, the motion of which is imparted to the follower U by two rods, A', which are attached directly to the said follower and to the disks, as shown. That end of the box E which receives the follower U is provided with two horizontal slots, B', to admit the ends of the beam L when the followers are moved toward each other.

Having described my improved hay-pressing device in detail, I will now proceed to describe the method of its operation.

The hay-receiver is first raised to a vertical position, in which its lower end is closed by the swinging platform Q, the doors H being locked in closed adjustment by the levers I. Hay is now introduced into the upper and open end of the box until it is completely filled. It is then restored to its horizontal position, and the hand-levers are operated to cause the followers to simultaneously approach each other, the hay between them being compressed. As they reach the limit of their motion the beam L will engage with the levers N and move them, their motion being imparted to the levers I, which are thus disengaged from

the cross-bars K, secured to the doors H, which are now opened to permit the compressed hay to be removed from the hay-receiver. The hand-levers are now moved again to actuate the disks V, causing them to restore the followers to the platforms B, upon which they are supported when not within the hay-receiver, which is again raised to a vertical position to permit the introduction of a new supply of loose hay.

While I have shown my improved devices for pressing hay as mounted upon a carriage, thereby enabling the compression of hay to be carried on in the field, they may be applied to a fixed support, if desired. I would therefore have it understood that I do not limit myself to the exact construction shown and described, but that I hold myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of my invention.

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

1. The combination, with a hay-receiver consisting of a box having open ends and adapted to be adjusted to a horizontal or a vertical position, of two followers arranged to be received within the opposite open ends of the said box when in its horizontal position, and to simultaneously approach or recede from each other, substantially as set forth.

2. The combination, with a hay-receiver consisting of a box having open ends and adapted to be adjusted to a horizontal or a vertical position, of two followers arranged to be received within the opposite ends of the box when in its horizontal position, and devices to close the lower open end of the box when in its vertical adjustment.

3. The combination, with a hay-receiver consisting of a box having open ends and adapted to be adjusted to a horizontal or a vertical position, of two followers arranged to be received within the opposite ends of the box when in its

horizontal position, and a swinging platform to close the lower open end of the box when in its vertical adjustment.

4. The combination, with a hay-receiver consisting of a box having open ends, provided on its upper and lower faces with hinged doors, and adapted to be adjusted to a horizontal or to a vertical position, of two followers arranged to be received within the opposite open ends of the box when in its horizontal position, and a system of levers operated by one of the said followers and arranged to unlock said doors at the completion of a bale of hay.

5. The combination, with a hay-receiver consisting of a box having open ends, of two followers adapted to be received within the opposite open ends of the box when in its horizontal position, and platforms to support said followers when they are not in the box.

6. The combination, with a hay-receiver consisting of a box having open ends, of two followers adapted to be received within the opposite open ends of the box when in its horizontal position, two disks meshing with each other, and connections between the followers and disks, the latter being rotated to cause the followers to simultaneously approach or recede from each other.

7. The combination, with a carriage provided with two parallel side beams, of a hay-receiver consisting of a box having open ends, said box being provided with short axles, which are journaled in said side beams, adapting the box to be adjusted horizontally or vertically with relation to said beams, and two followers arranged to be received within the opposite open ends of the box.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

LAWSON G. PEEL.

Witnesses:

J. M. HARRIS,
G. D. LOWE.