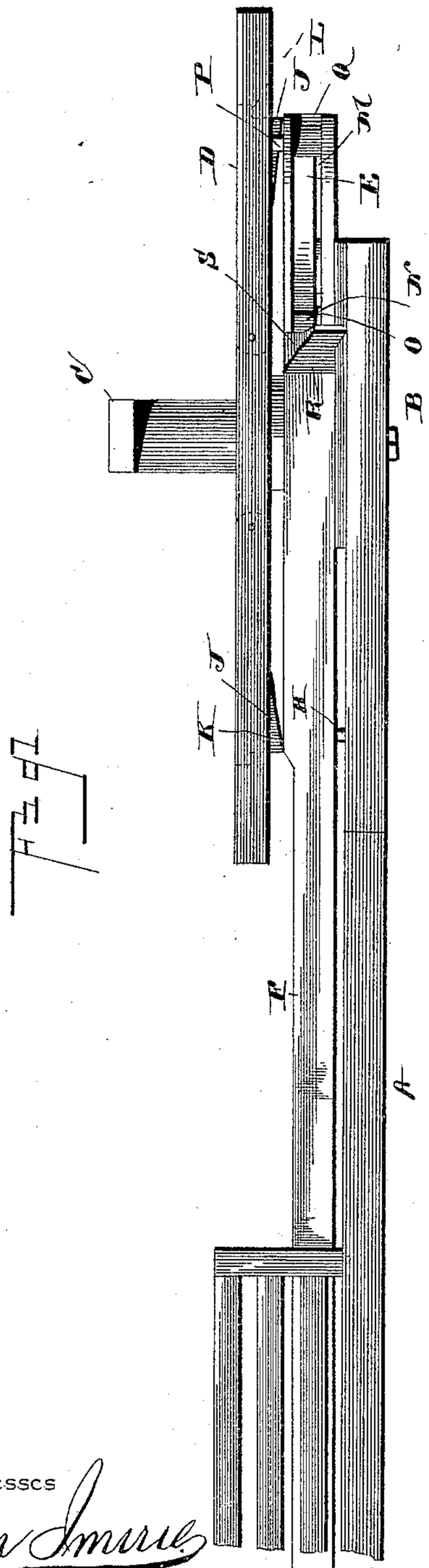
(No Model.)

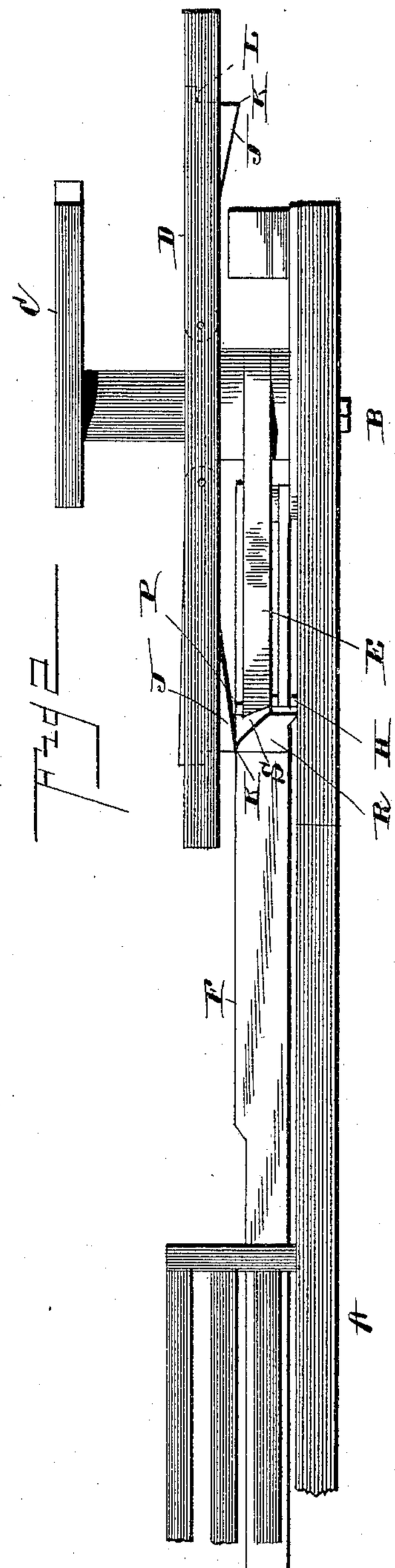
2 Sheets—Sheet 1.

J. W. HUNTER.

BALING PRESS.

No. 433,469. Patented Aug. 5, 1890.





Witnesses
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(No Model.) 2 Sheets—Sheet 2.

J. W. HUNTER.

BALING PRESS.

No. 433,469. Patented Aug. 5, 1890.

Fig. 4.

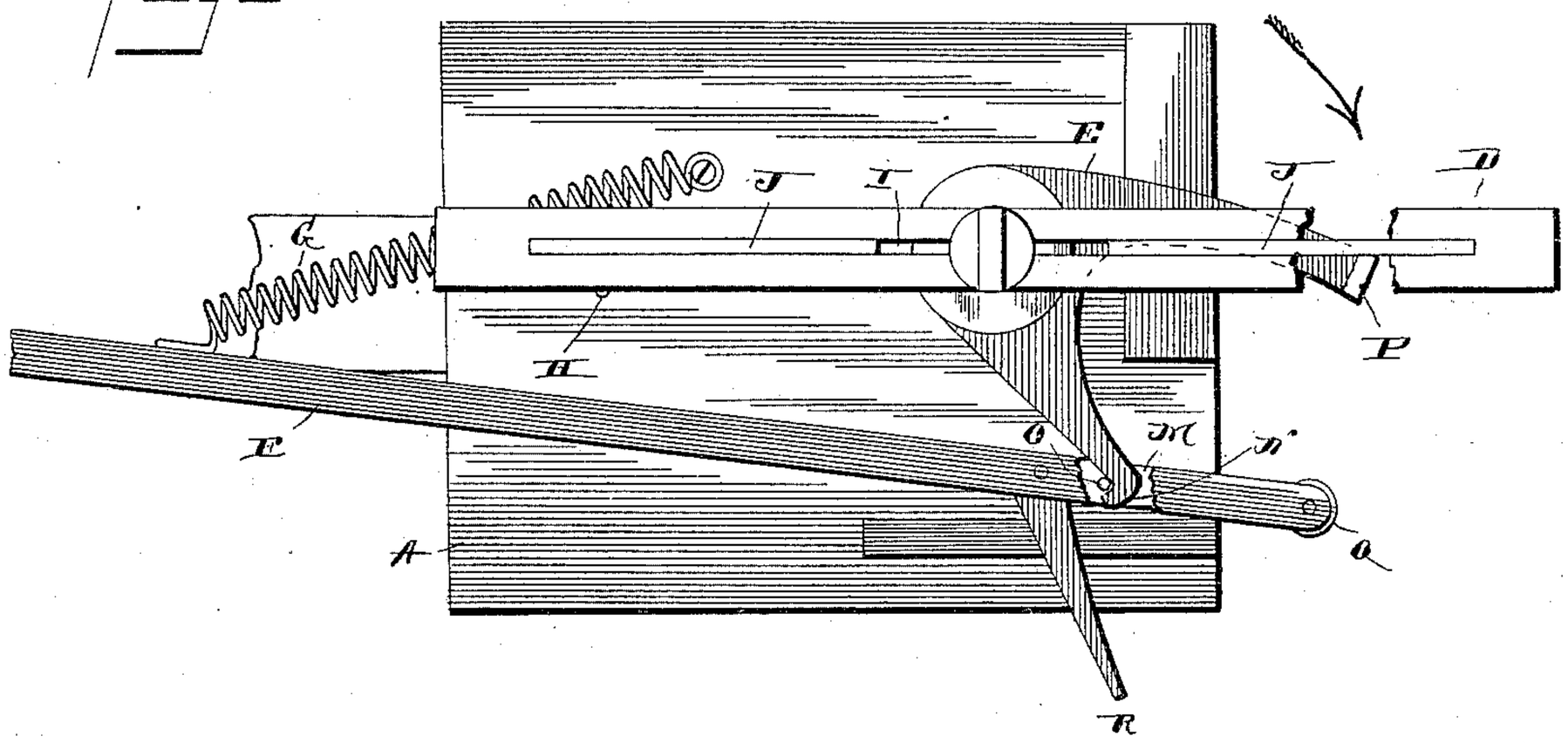


Fig. 1.

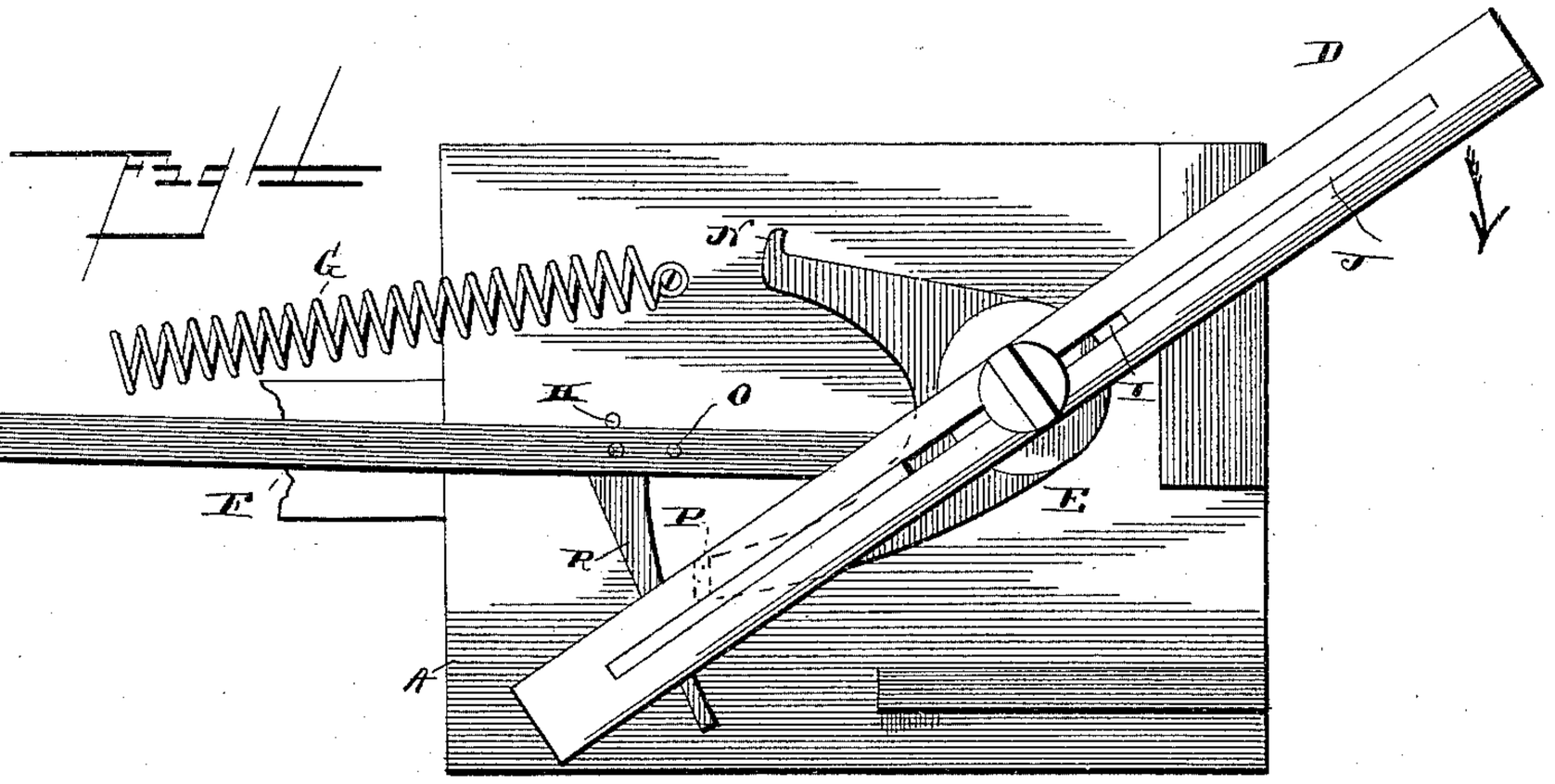
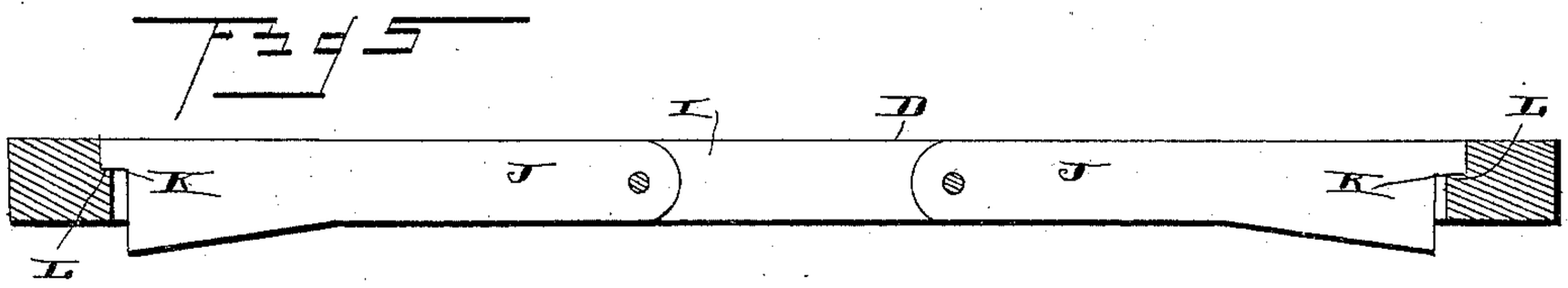


Fig. 5.



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Inventor

UNITED STATES PATENT OFFICE.

JOHN WILLIAM HUNTER, OF MACON, MISSISSIPPI.

BALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 433,469, dated August 5, 1890.

Application filed September 24, 1889. Serial No. 324,883. (No model.)

To all whom it may concern:

Be it known that I, JOHN WILLIAM HUNTER, a citizen of the United States, residing at Macon, in the county of Noxubee and State of Mississippi, have invented a new and useful Baling-Press, of which the following is a specification.

My invention relates to improvements in hay-presses; and it consists in certain novel features hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a side view of my improved press. Fig. 2 is a similar view showing the parts in a different position. Figs. 3 and 4 are plan views with the several parts in positions shown in Figs. 1 and 2, respectively, the sweep being removed. Fig. 5 is a detail longitudinal section of the driving-lever.

The frame A of the press is of the usual construction, and forms no part of my present invention. At one end of the frame I mount a vertical shaft B, having a sweep C secured to its upper end, as clearly shown. At an intermediate point of the shaft B, I secure the driving-lever D, and below the said lever I loosely mount on the said shaft the double-armed crank E. The plunger is of the usual construction, and the pitman F is pivoted to the plunger and extends forward therefrom in the usual manner. A spring G is secured to the pitman and the frame, so as to aid in the rebound of the plunger, and a pin H is secured to the frame in the path of the pitman, so as to prevent the same being pushed beyond the dead-center by the double-armed crank E.

The driving-lever D is provided with the longitudinal slots I, and in these slots I pivot the dogs J, having shoulders K at their outer ends adapted to engage shoulders L at the ends of the slots, so that the dogs will not swing too far below the driving-lever. The forward arm of the crank E plays in a longitudinal slot M in the end of the pitman, and is provided with a hook N, adapted to engage a pin O, secured within the said slot. The rear arm of the crank E is provided with a lug P, which is adapted to be engaged by the dogs J in the operation of the device. The rear arm of the crank is adapted to bear against a roller Q, journaled at the end of the pitman and to force the pitman to the limit of its stroke. A trigger R is secured to and projects laterally from the pitman and has an inclined upper edge, as shown at S.

In practice the hay is fed into the baling-chamber in the usual manner and the sweep C is continuously rotated. As the sweep is rotated, the driving-lever of course will be rotated and one of the dogs J will be brought against the lug P on the rear arm of the crank E. The crank will thus be set in motion, and the hook N being in engagement with the pin O, the motion of the crank will be communicated directly to the pitman, and the plunger thereby carried against the hay. As the sweep continues its motion, the rear arm of the crank E will be brought against the end of the pitman and the power applied to the pitman consequently increased. Just before the pitman reaches the dead-center the pin O will have been pushed so far rearward as to slip out of the path of the hook N, and the motion of the pitman will be continued by the rear arm of the crank alone. Just as the pitman reaches the dead-center the dogs J will engage the inclined upper edge of the trigger R, and will consequently be thrown upward out of engagement with the lug P, and the rebound of the hay, aided by the spring G, will return the pitman to its initial position, and with this return of the pitman the crank E is returned to its original position. Another charge of hay is then placed in the baling-chamber, while the motion of the sweep is continued and the former operation is repeated.

From the foregoing description, taken in connection with the accompanying drawings, it will be seen that I have provided a hay-press in which the sweep will be continuously rotated, and in which two charges may be pressed at each revolution of the sweep.

The device is very simple, and the several parts are compactly arranged, so that it can be manufactured at a small cost and is not liable to get out of order.

When the device is in use, a maximum amount of power is applied to the plunger by the expenditure of the least possible force, so that the operation of the machine is rendered easy, certain, and rapid.

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

1. In a press, the combination, with the pitman, of the vertical shaft, the driving-lever rigidly secured thereto, the dogs pivoted to said lever, the double-armed crank below said lever engaged by said dogs, the arms of said crank successively engaging the pitman, and means for rotating the shaft, substantially as described.

2. The combination of the vertical shaft, the pitman, the double-armed crank loosely mounted on the vertical shaft and engaging the pitman, the longitudinally-slotted driving-lever secured to the vertical shaft, and the vertically-disposed gravity-dogs pivoted within said lever and adapted to engage the double-armed crank, and means for rotating the shaft, as set forth.

3. The combination of the pitman, the vertical shaft, means for rotating said shaft, the double-armed crank loosely mounted on the vertical shaft and engaging the pitman, the driving-lever, the dogs pivoted within said lever and adapted to engage the double-armed crank, and the trigger secured to and projecting laterally from the pitman and adapted to disengage the dogs from the crank, as set forth.

4. The combination of the pitman having a longitudinally-slotted outer end and a vertical pin within said slot, a double-armed crank having its front arm provided with a hook adapted to engage the said vertical pin and its rear arm adapted to engage the end of the pitman, and means for vibrating said crank, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOHN WILLIAM HUNTER.

Witnesses:

J. HOLBERG, Jr.,

L. Y. SPANN.