

M. L. WHITNEY.

HAY-PRESS.

No. 173,523.

Patented Feb. 15, 1876.

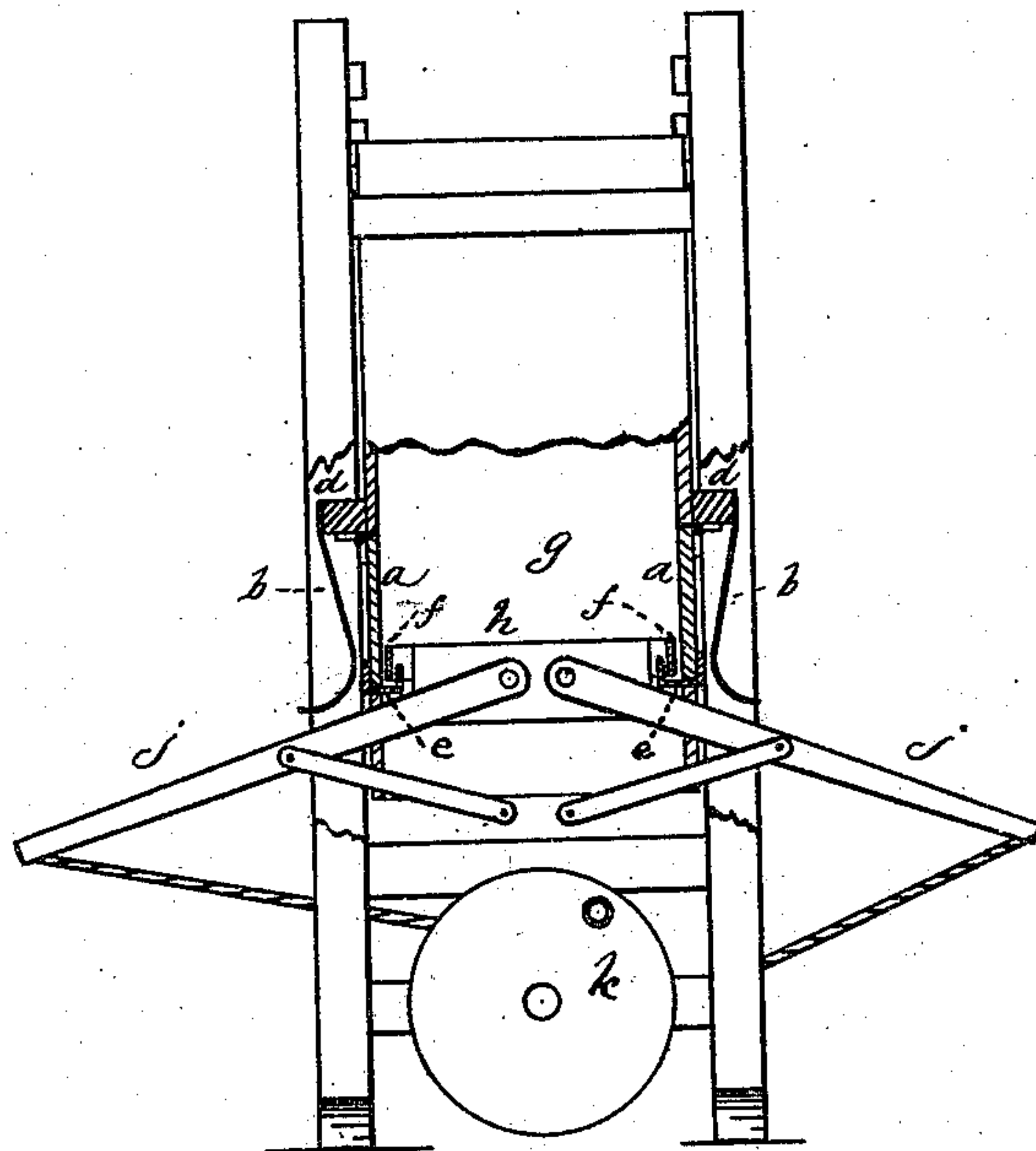


Fig. 1.

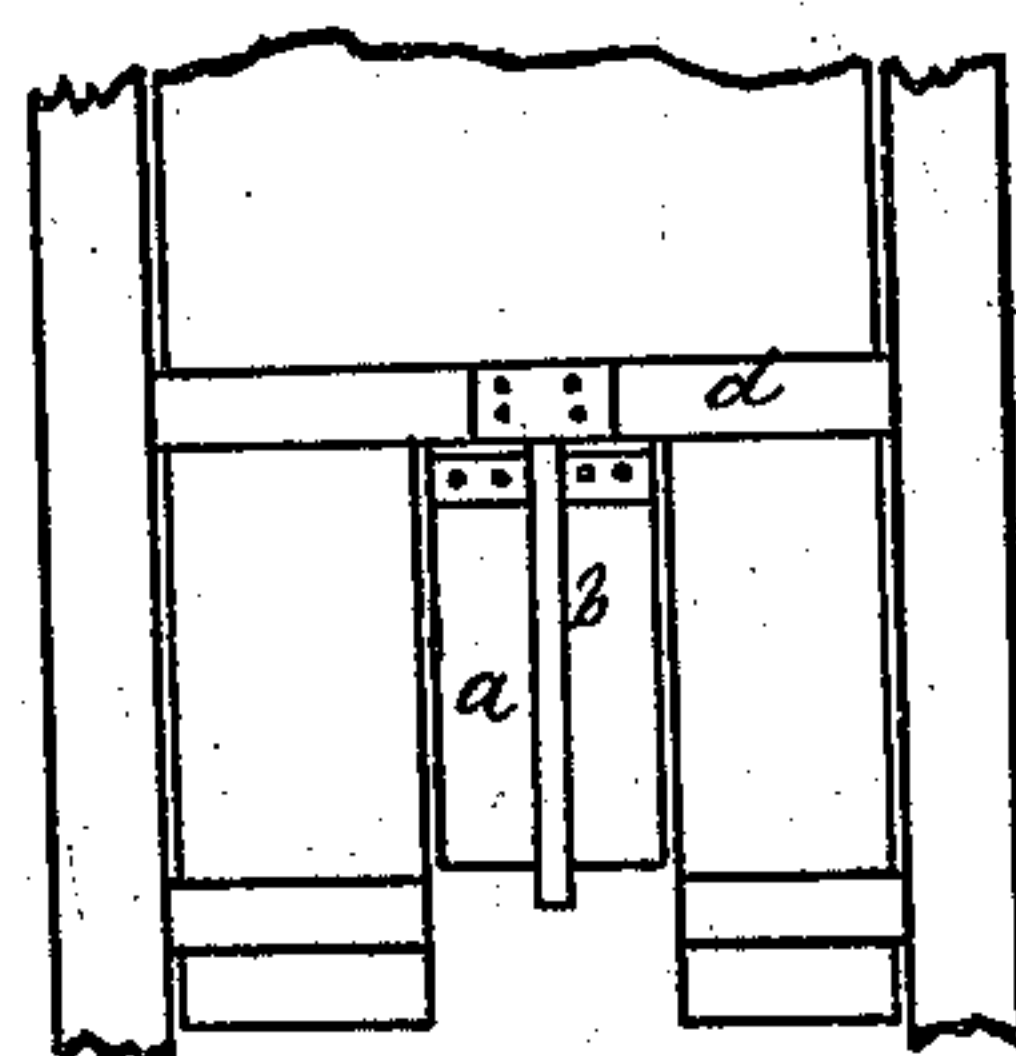


Fig. 2.

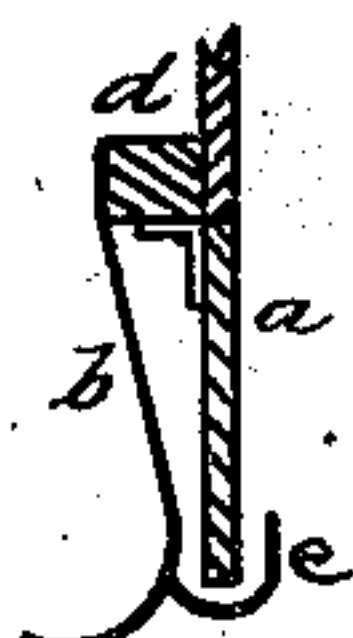


Fig. 3.

Witnesses:
Frank H. Jordan.
Edwin A. Leighton

Inventor:
Michael L. Whitney,
per Wm. Henry Clifford
Att'y.

UNITED STATES PATENT OFFICE.

MICHAEL L. WHITNEY, OF NORTH YARMOUTH, ASSIGNOR OF TWO-THIRDS HIS RIGHT TO GEORGE NOYES, OF POWNAL, AND ANDREW LEIGHTON, OF YARMOUTH, MAINE.

IMPROVEMENT IN HAY-PRESSES.

Specification forming part of Letters Patent No. **173,523**, dated February 15, 1876; application filed June 9, 1875.

To all whom it may concern:

Be it known that I, MICHAEL L. WHITNEY, of North Yarmouth, in the county of Cumberland and State of Maine, have invented certain new and useful Improvements in Hay-Presses; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 is a side elevation, in part section. Fig. 2 is a front view of the door and spring. Fig. 3 is a detail view.

Same letters show like parts.

I am aware of Letters Patent granted to George Noyes for certain improvements in hay-presses, said Letters Patent being dated December 17, A. D. 1867, and numbered No. 72,221, and I do not claim the subject of that patent.

My invention has for its object an improvement upon the doors *a*, by which their operation is much facilitated. In the said invention above referred to the doors, when closed, were secured by an arrangement of bars. In my invention I substitute for them the spring-lever *b*, which, being fastened to the beam *d* at one end, presses against the outer faces of the doors and tends continually to close the same.

My invention further consists in a hook, *e*, attached to the inner face of the doors, and, when the follower or plunger of the machine is at the bottom of the box *g*, catching into the catch *f*. *h* shows the follower; *g*, the box. The follower is at the bottom of the box when the hay is first introduced into the box. The introduction of the hay then tends to force open the doors *a*, but they are kept closed by the hook and catch before referred to. As

the follower descends the spring-levers close the doors *a* as fast as the arms *j* admit of the same, and when the follower has reached the bottom of the box the hooks *e* pass behind the catches *f*; then, when the windlass *k* is set in operation and the arms *j* begin to raise the follower *h*, the hook *e* is released, and the doors *a* are permitted to swing open sufficiently to permit of the movement of the arms *j*.

I do not particularly describe the windlass and other devices for operating the follower *h*, because they are the same as described in the patent to Noyes, before referred to.

My invention relates exclusively to the above-described attachment to the doors *a* and follower *h*.

The spring-lever *b* has an outward curve at the bottom end to facilitate its sliding on the top edge of the arms *j*.

It is manifest that the hooks *e* may be formed of the same piece of metal as the spring-levers *b*, and turned up under the bottom edge of the doors *a*, as shown in Fig. 3.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a hay-press, substantially as shown, the doors *a*, provided with hooks *e*, together with the follower *h*, provided with catches *f*, to operate as shown and described.

2. In a hay-press, as shown, the curved spring-lever *b*, in combination with doors *a* and arms *j*, as set forth.

3. In a hay-press, as shown, the spring-lever *b*, with the hook *e*, made in one piece, in combination with the catch *f*, door *a*, and arm *j*, as set forth.

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

MICHAEL L. WHITNEY.

Witnesses:

FRANK H. JORDAN,

WM. HENRY CLIFFORD.