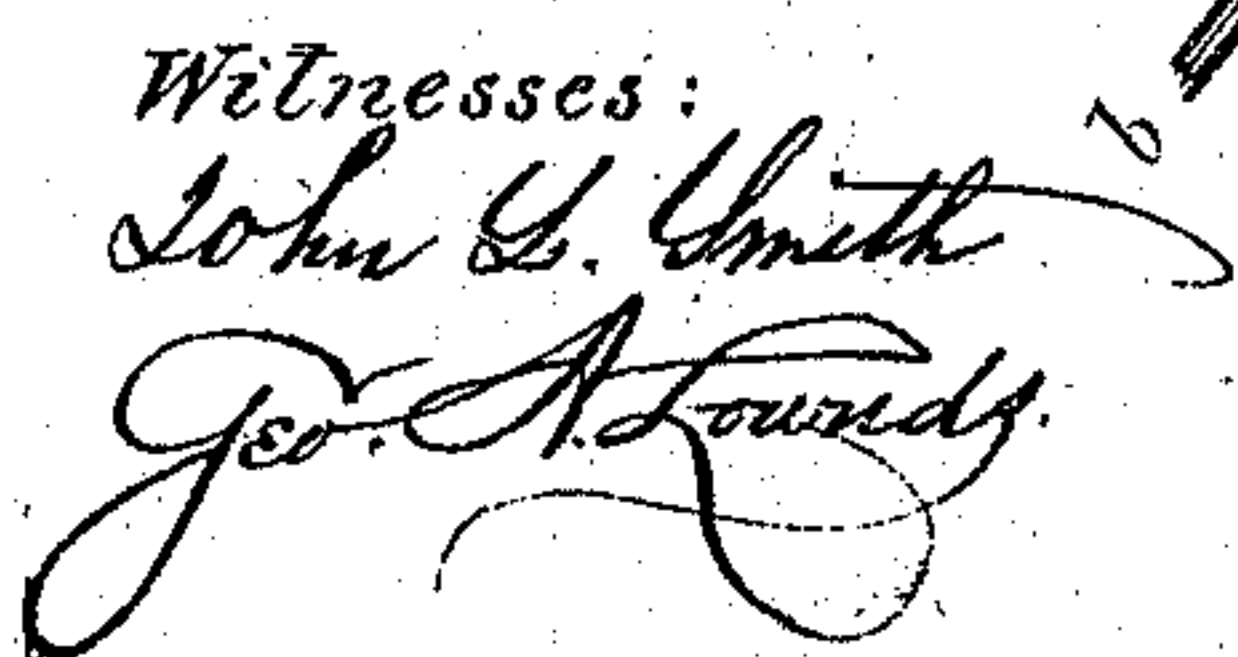


W. H. Morris,

No. 103,356.

*Patented May 24. 1870.*



Inventor :  
William H. Morris  
by Chas. C. Tucker & Co.  
his atty in fact.

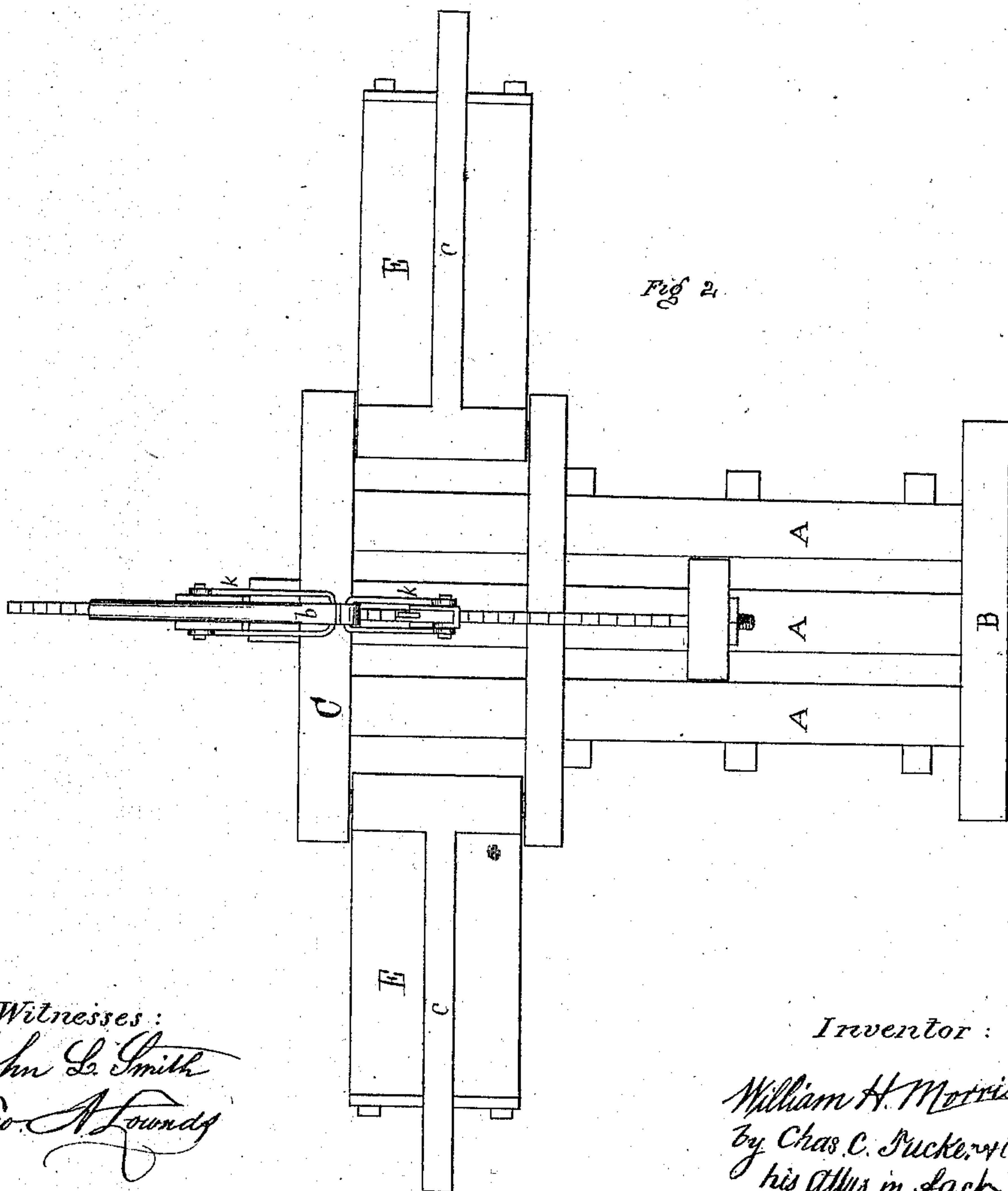
W. H. Morris,

2. Sheets, Sheet 2.

Hay Press.

No. 103,356.

Patented May 24, 1870.



Witnesses:  
John L. Smith  
Geo. A. Loundy

Inventor:  
William H. Morris  
by Chas. C. Buckner & Co  
his attys in fact.



# United States Patent Office.

WILLIAM H. MORRIS, OF TROY, TENNESSEE.

Letters Patent No. 103,356, dated May 24, 1870.

## IMPROVEMENT IN COTTON, HAY, AND HEMP-PRESSES.

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

I, WILLIAM H. MORRIS, of Troy, in the county of Obion and State of Tennessee, have invented certain Improvements in Cotton, Hay, and Hemp-Presses, of which the following is a specification.

### *Nature and Objects of the Invention.*

My invention is a cotton, hay, and hemp-press, the object of which is reduced friction and increased leverage; and consists of six upright posts, securely mortised, with a movable or sliding bottom, raised and lowered by means of ratchet-bars and two levers, as more fully described in the following general description.

### *Description of the Accompanying Drawings.*

Figure 1 is a front view of the press embodying my invention, and shows the working of the cross-beam or movable bottom, in connection with the ratchet-bars and levers, as also the door.

Figure 2 is a side view of the same.

### *General Description.*

The press consists of three upright posts, A, at each end, about six inches apart, mortised into a base, B, and the cross-beam C on top, leaving a groove on each side of the center post for the bottom or cross-beam D to pass up and down, in connection with the ratchet-bars *a a* and the levers *b b*.

On each side of the press, near the top, is a door, E, secured by a hinge-bar, *c*.

The top *d* of the press is made so that it can be taken out after the press has been filled, in order that more may be put in after the doors are closed.

On the top of the press, over the center, is a cross-beam, F, projecting over, through the ends of which pass the ratchet-bars *a*, attached to the bottom or movable beam D below, and secured on top by means of two blocks, *e e*, each containing a pawl, *f*, in front, which works into the notches of the ratchet-bars, and in the rear a roller, *g*.

The pawl strikes the ratchet-bar just above the center of the roller, so that, when the power is taken off one and thrown on the other, the roller will turn and relieve the pressure or friction.

To each pawl a small pin, *h*, is attached, by which it can be raised to permit the lowering of the ratchet-bars.

On each of the ratchet-bars is a similar block, *i*, connected with the upper blocks by means of two clevises, *k k*, and the levers *b*, which raise the cross-beam D.

The press can be sunk into the ground to whatever distance may be deemed necessary to steady it.

### *Claim.*

I claim as my invention—

The combination of the cross-beam F with the ratchet-bars *a a*, blocks *e e*, provided with pawls *f* having handles *h* attached thereto, friction-rollers *g g*, and the clevises *k k*, operated by the levers *b*, when all constructed, arranged, and operating as herein described, and for the purpose set forth.

W. H. MORRIS.

Witnesses:

J. G. SMITH,  
J. M. KING.