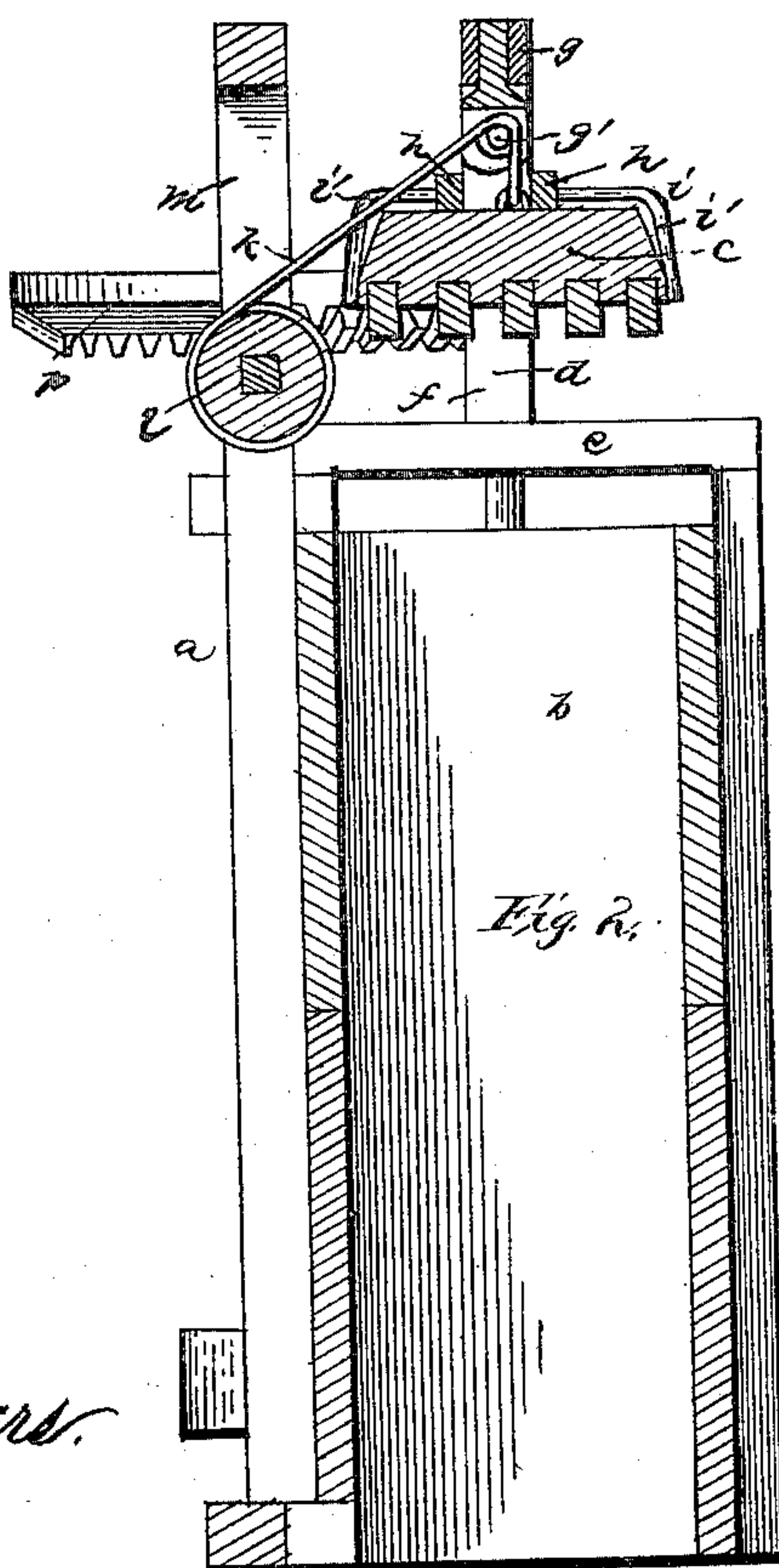
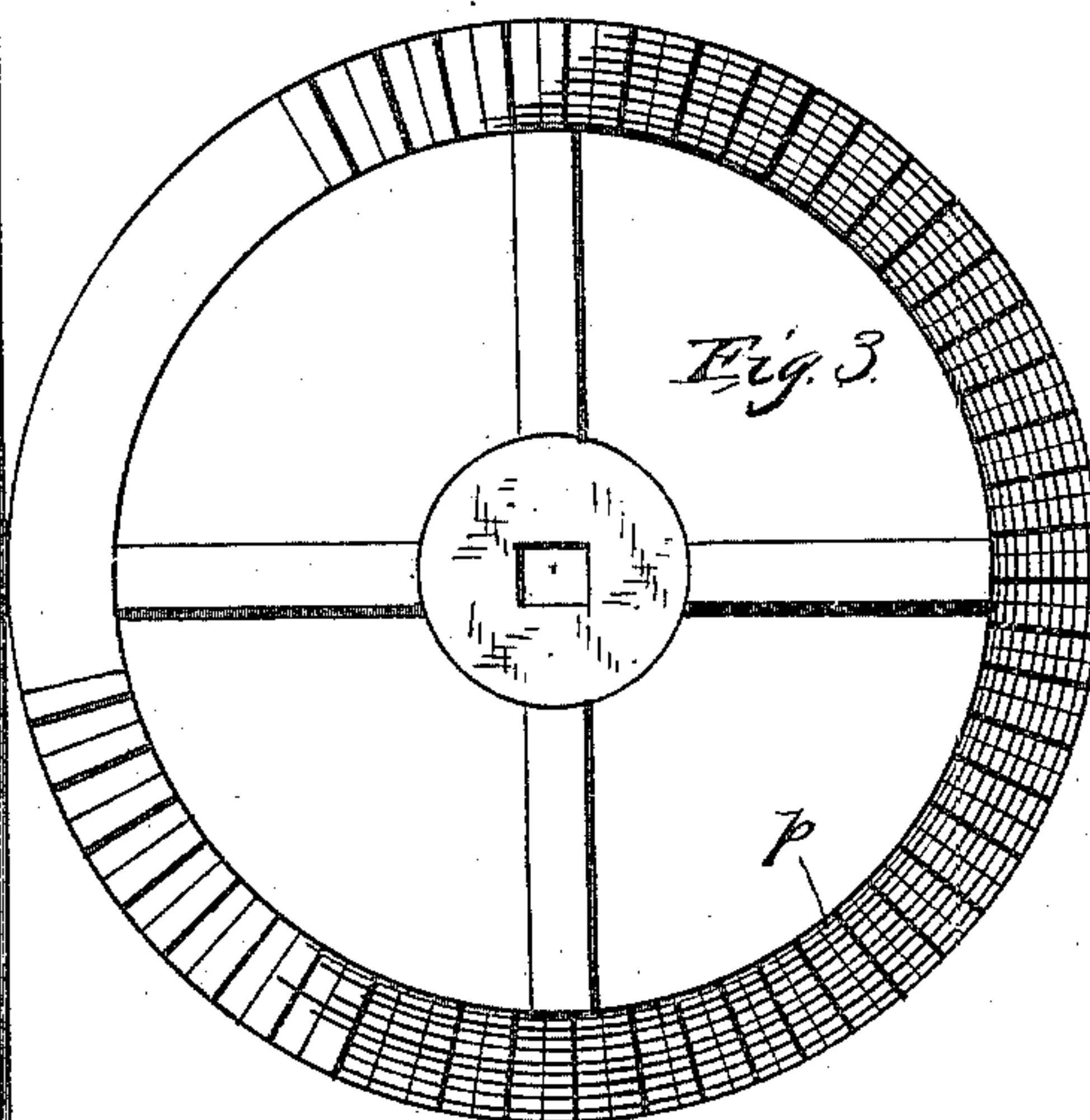


2 Sheets—Sheet 1.

COTTON PRESS.

Patented May 27, 1884.



WITNESSES
H. L. Overmire
E. G. Diggers.

Cyrus D. Heflin
INVENTOR
by C. A. Snow & Co
Attorneys

(No Model.)

2 Sheets—Sheet 2.

C. D. HEFLIN.
COTTON PRESS.

No. 299,139.

Patented May 27, 1884.

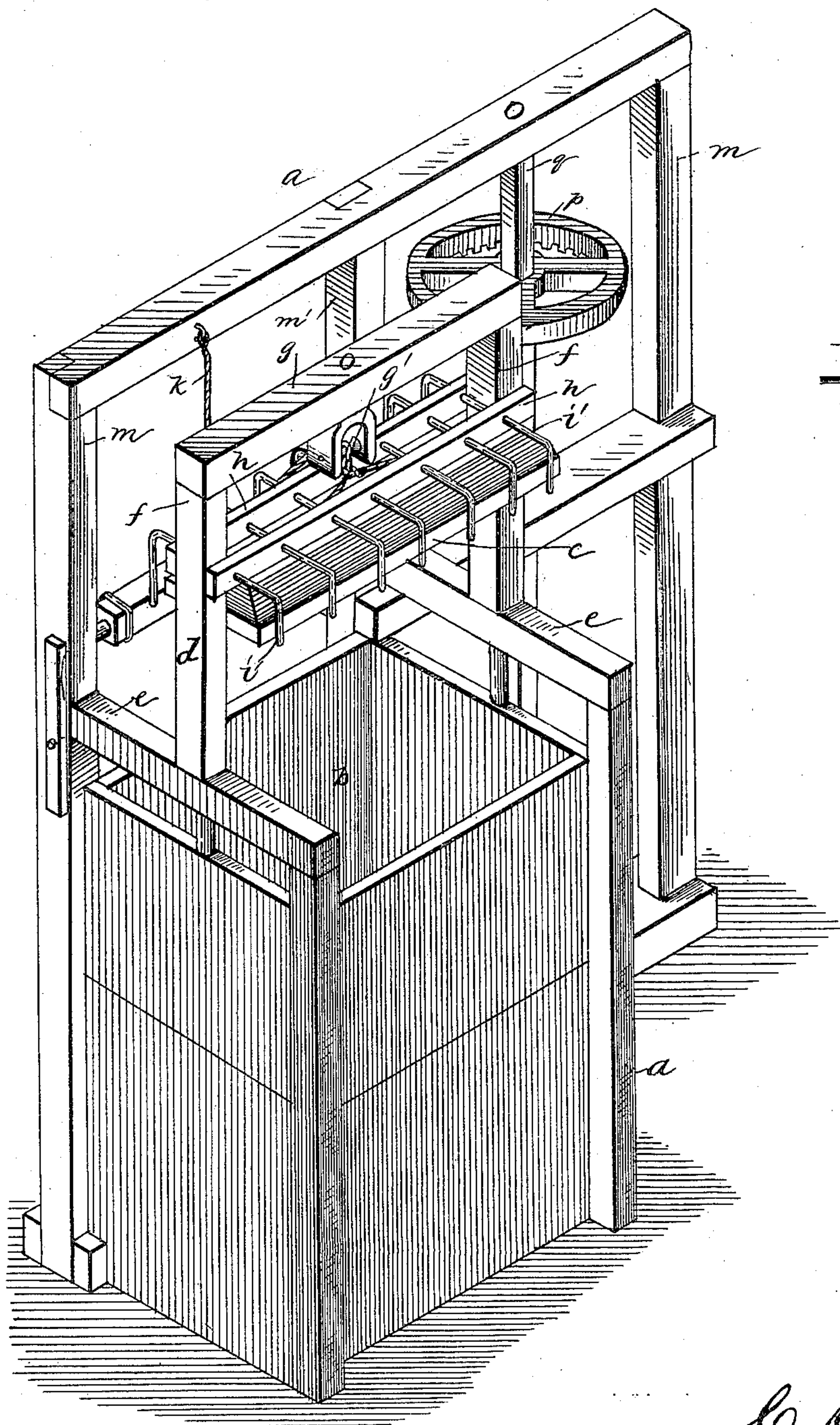


Fig. 4

WITNESSES
F. L. Durand
E. G. Siggers.

C. D. Heflin
INVENTOR

by *L. A. Snow & Co*

Attorneys

UNITED STATES PATENT OFFICE.

CYRUS DAVID HEFLIN, OF ROANOKE, TEXAS.

COTTON-PRESS.

SPECIFICATION forming part of Letters Patent No. 299,139, dated May 27, 1884.

Application filed March 11, 1884. (No model.)

To all whom it may concern:

Be it known that I, CYRUS DAVID HEFLIN, a citizen of the United States, residing at Roanoke, in the county of Denton and State of Texas, have invented a new and useful Cotton-Press, of which the following is a specification, reference being had to the accompanying drawings.

This invention has relation to cotton-presses; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claims.

Figure 1 is a side elevation of a cotton-press embodying the improvements of my invention. Fig. 2 is a vertical cross-section on the line *x x* in Fig. 1. Fig. 3 is a bottom view of the segmental miter-wheel, and Fig. 4 is a view in perspective of the cotton-press.

Referring by letter to the accompanying drawings, *a* designates the main frame of the cotton-press. *b* designates the cotton-box or bale-chamber; *d*, the auxiliary guide-frame upon the top of the bale-chamber, and *c* the packing-block or press-block. The auxiliary frame is from twelve to fifteen feet high above the box. Its uprights are mortised into the middle of two horizontal timbers, *e e*, secured to the top of the bale-chamber at their front ends, and mortised into two of the uprights of the main frame at their rear ends. The tops of the uprights *f f* of the auxiliary frame are connected by a girder, *g*, from the middle of which depends a pulley, *g'*. Upon the rails *e e* rest the ends of the parallel arms *h h* of a guide-crate, *i*, the arms being on opposite sides of the uprights *f f*. The wooden arms *h h* are provided with angular wire rods *i'*, bent and arranged, as shown, to form a guide for the press-block when it is raised above the top of the press-box, and to form a crate or fender when in its normal position at the mouth of the press-box, to prevent the cotton from falling in upon the press-block after the latter has fallen down into the box upon the cotton in the box. The press-block is a heavy rectangular block that fits properly in the bale-chamber, and is provided with pins in its under face. A rope, *k*, is attached to the center of the block, and passes up over the pulley *g'*, and thence to a drum, *l*, on a rectangular shaft having bearings in the uprights *m m'* of the main frame. One end of the drum is provided with stop-pins *m²*, with which a hook, *n*, connected to the girder of the main

frame, can be connected to hold the press-block in an elevated position when desired. The end of the rectangular shaft projects through the upright *m'*, and is provided with a miter-pinion, *o*, which engages a segmental miter-wheel, *p*, on a vertical shaft, *q*, having bearings in the main frame. Near the lower end this vertical shaft *q* is provided with a very small band-wheel, *r*, which is connected by a belt to the gin-shaft, and is not intended to run with much speed. The miter-pinion is thrown in gear by a clutch-lever. The segmental miter-wheel is large enough in diameter to cause the toothed section to operate the drum to raise the press-block twelve or fifteen feet above the bale-chamber, carrying the crate up with it after it reaches the top of the box before the smooth section of the miter-wheel is reached, at which point the miter-pinion leaves the teeth of the miter-wheel and permits the heavy press-block to fall upon the cotton in the box to pack it, the guide-crate falling with the press-block, but stopping at the mouth of the box to prevent the cotton from falling in on the press-block. The cotton may be permitted to fall into the box to be pressed; or it may be fed in by hand.

This cotton-press is cheap, is exceedingly simple, and is not liable to get out of order.

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

1. In a cotton-press, the combination, with the main frame supporting the horizontal shaft provided with the drum and miter-pinion, and the vertical shaft having small band-wheel and large segmental miter-wheel, and the press-box, of the auxiliary frame above the press-box, provided at its top with a pulley, and the press-block connected to the rope running over said pulley to the drum, substantially as specified.

2. In a cotton-press, the combination, with the press-box, auxiliary frame, the press-block, and mechanism, substantially as described, for operating it, of the guide-crate adapted to slide upon the vertical ways of the auxiliary frame, substantially as specified.

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

CYRUS DAVID HEFLIN.

Witnesses:

WILLIAM H. WELBORN,
PERRY W. EADS.