

(No Model.)

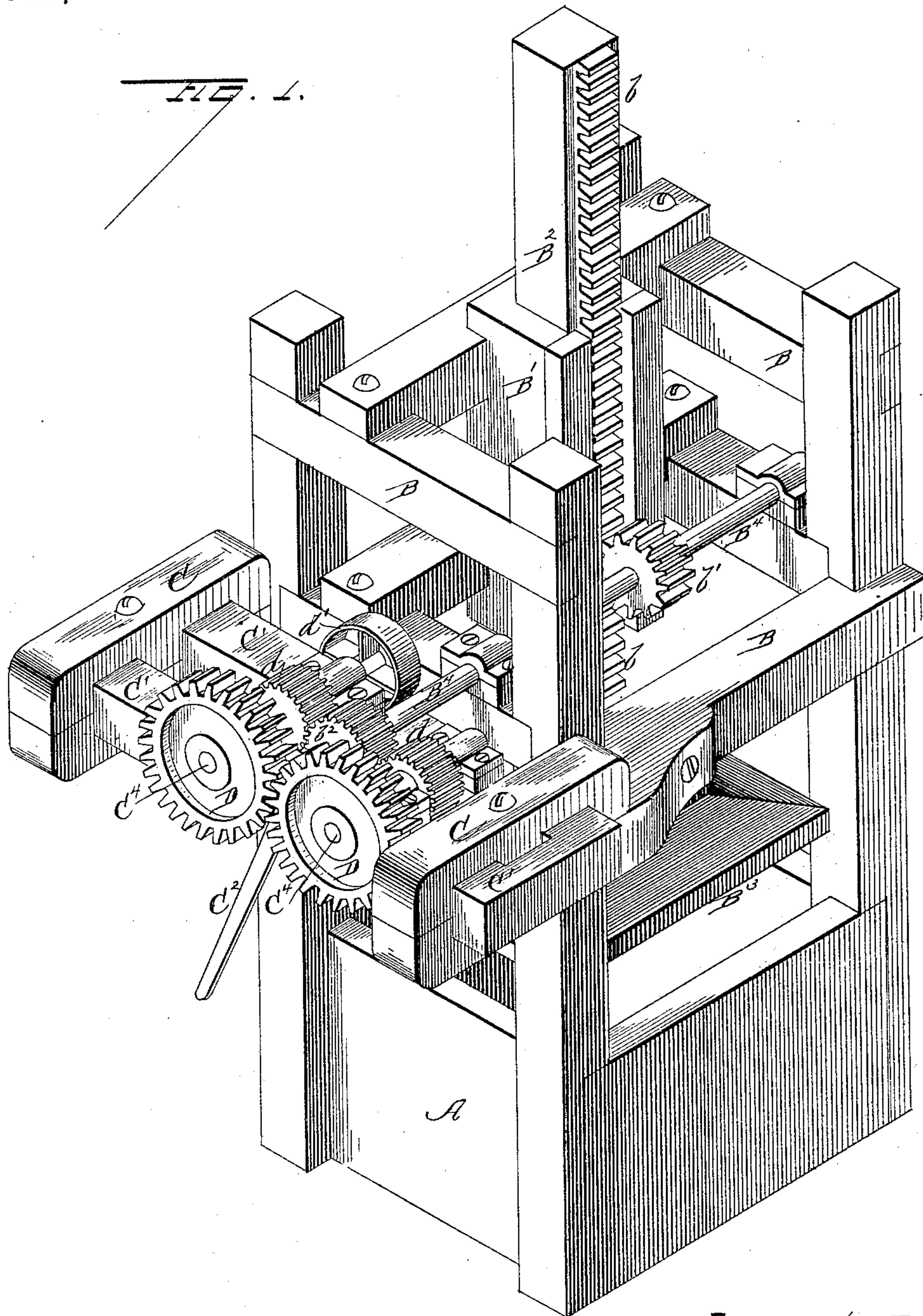
2 Sheets—Sheet 1.

J. B. BRADFORD.

PACKING ATTACHMENT FOR COTTON PRESSES.

No. 327,858.

Patented Oct. 6, 1885.



WITNESSES:  
H. C. McArthur  
O. S. McArthur.

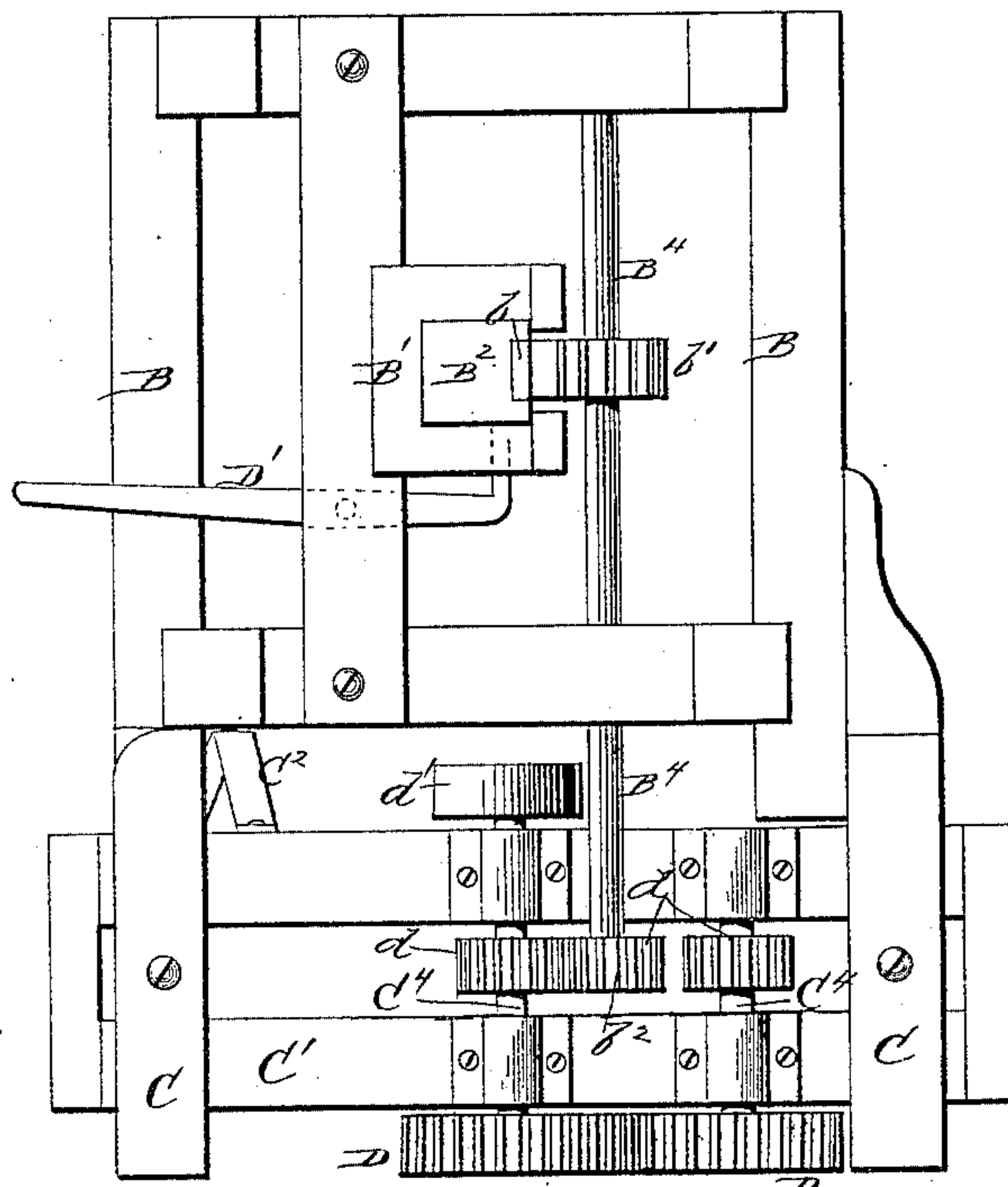
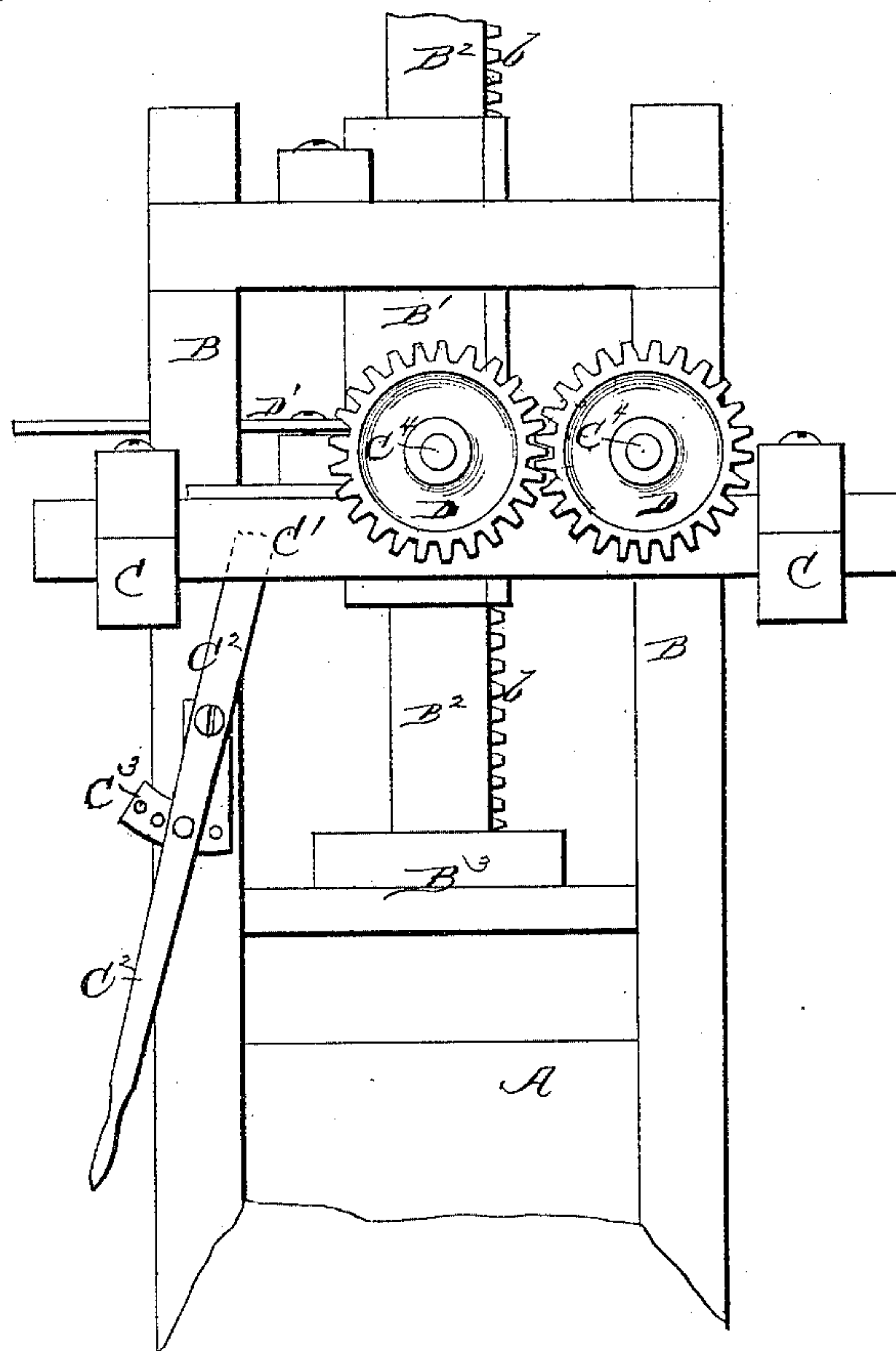
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PACKING ATTACHMENT FOR COTTON PRESSES.

No. 327,658.

Patented Oct. 6, 1885.



*Witnesses:*

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# UNITED STATES PATENT OFFICE.

JOHN B. BRADFORD, OF SAN MARCOS, ASSIGNOR OF ONE-HALF TO S. F. McALLISTER, B. F. DONALSON, AND H. E. RUNNELS, OF HAYS COUNTY, TEXAS.

## PACKING ATTACHMENT FOR COTTON-PRESSES.

SPECIFICATION forming part of Letters Patent No. 327,858, dated October 6, 1885.

Application filed July 25, 1885. Serial No. 172,615. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN B. BRADFORD, a citizen of the United States, residing at San Marcos, in the county of Hays and State of Texas, have invented certain new and useful Improvements in Packing Attachments for Cotton-Presses, of which the following is a specification.

This invention relates to an improvement in packing attachments for cotton-presses; and it consists in certain peculiarities of the construction and arrangement of the same, substantially as will be hereinafter more fully set forth and claimed.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the accompanying drawings, in which—

Figure 1 is a perspective view of my invention; Fig. 2, a side elevation of the same, and Fig. 3 a top plan view.

A represents the top of the pressure-chamber of a cotton-press, of any desired construction, not necessary to illustrate or describe in this connection. From this press rises a frame, B, provided with a suitable guide, B', in which slides a standard, B<sup>2</sup>, having upon its lower end a plunger, B<sup>3</sup>, for pressing the material into the press. The sliding standard B<sup>2</sup> has upon one side a series of rack-teeth, b, by which the packer is advanced and retracted, as will be presently described.

Journaled in suitable boxes on the frame B is a transverse shaft, B<sup>4</sup>, carrying a pinion, b', which meshes with the rack upon the standard to impart motion thereto, as fully seen in Fig. 1. This shaft extends out at one side of the frame, and has upon its end a pinion, b<sup>2</sup>, by which it is revolved, either forward or back, as may be desired, to raise or lower the standard and its packing-plunger.

On one side of the main frame, in suitable supports, C C, is a horizontally-sliding frame, C', which is moved by means of a hand-lever, C<sup>2</sup>, fulcrumed on the side of the frame, and provided with a sector-rack, C<sup>3</sup>, by which the lever and its sliding frame is held at any desired point. This frame C' is upon each side

of the shaft B<sup>4</sup> provided with a short shaft, C<sup>4</sup>, each of which is provided on its outer end with a gear, D, which mesh, and one receives motion from the other. Each shaft is also provided with a pinion, d, and one of them also has a belt-pulley, d', to which power is applied by a driving-belt from any suitable motor. It will be observed that the shafts C<sup>4</sup> and their pinions are placed at such a distance that only one of them will engage the pinion b<sup>2</sup> at the same time, and one or the other is brought into engagement as the frame is shifted.

In operation the cotton is placed in the chamber A, and by shifting the frame C' one of the pinions d is brought into engagement with the shaft B<sup>4</sup> and the packing-head driven down to compress the material into the press-box. The shifting of the frame C' engages the other pinion, d, and lifts the plunger again, and this is repeated till the press has received sufficient to form a bale, which is then pressed and bound in the usual manner. When not in use, the plunger is drawn up to its highest point, and held there by means of a locking-lever, D', the frame C' being then shifted, so that neither of the pinions d will engage the operating-shaft. This enables the belt-pulley to be run at all times without stopping, whether the attachment is in use or not.

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

1. In a packing attachment for cotton or other presses, a main frame provided with guides, a cogged standard sliding therein and carrying the packing-piston, and an operating-shaft carrying a pinion engaging the standard, and a driving-pinion on its end, in combination with two shifting driving-shafts, each provided with a pinion, which are engaged with the operating-shaft alternately to raise and lower the plunger, substantially as and for the purpose set forth.

2. In a packing attachment for cotton or other presses, the combination, with the operating-shaft stationary on the main frame, of a sliding sash or frame, a pair of driving-shafts journaled thereon and geared together,

and carrying driving-pinions, and a lever fulcrumed on the main frame for shifting the sliding frame and its shafts, substantially as and for the purpose set forth.

- 5 3. The frame B, guide B', standard B<sup>2</sup>, having the plunger B<sup>3</sup> and rack-teeth b, and the operating-shaft B<sup>4</sup>, carrying the pinions b' b<sup>2</sup>, in combination with the sliding frame C', shafts C<sup>4</sup> C<sup>4</sup>, having gears D and pinions d,

and the shifting-lever C<sup>2</sup> and its sector-rack C<sup>3</sup>, all constructed and arranged to operate substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN B. BRADFORD.

Witnesses:

STERLING FISHER,

I. H. JULIAN.