

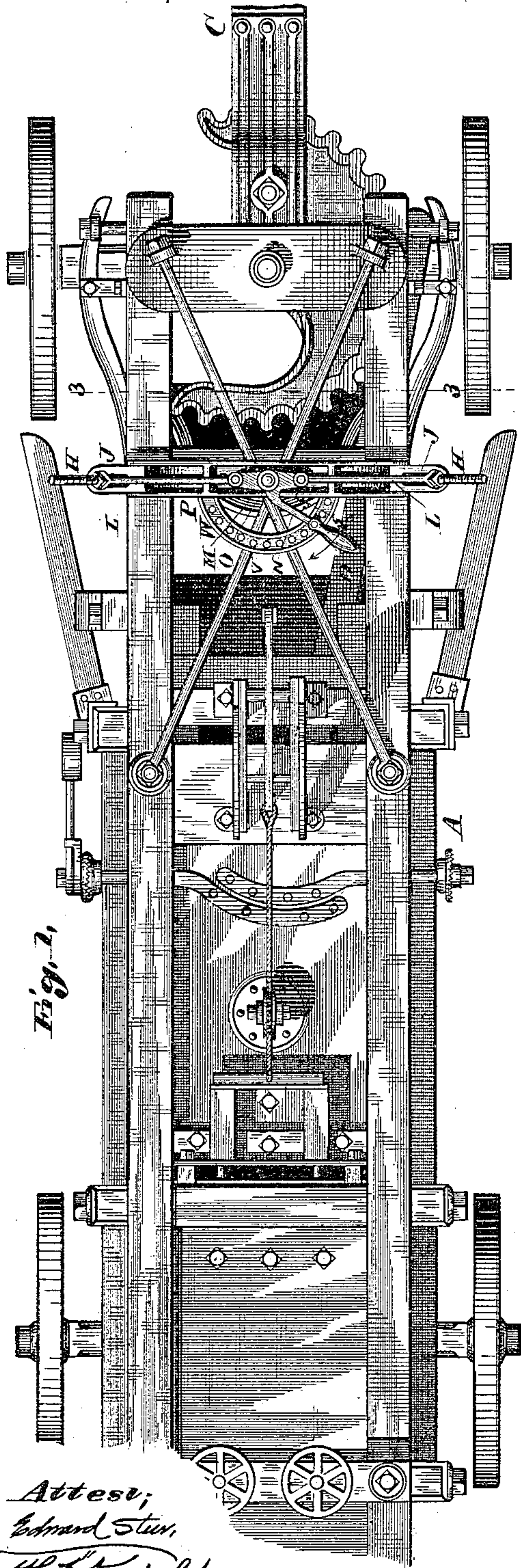
(No Model.)

E. BUTTERFIELD.

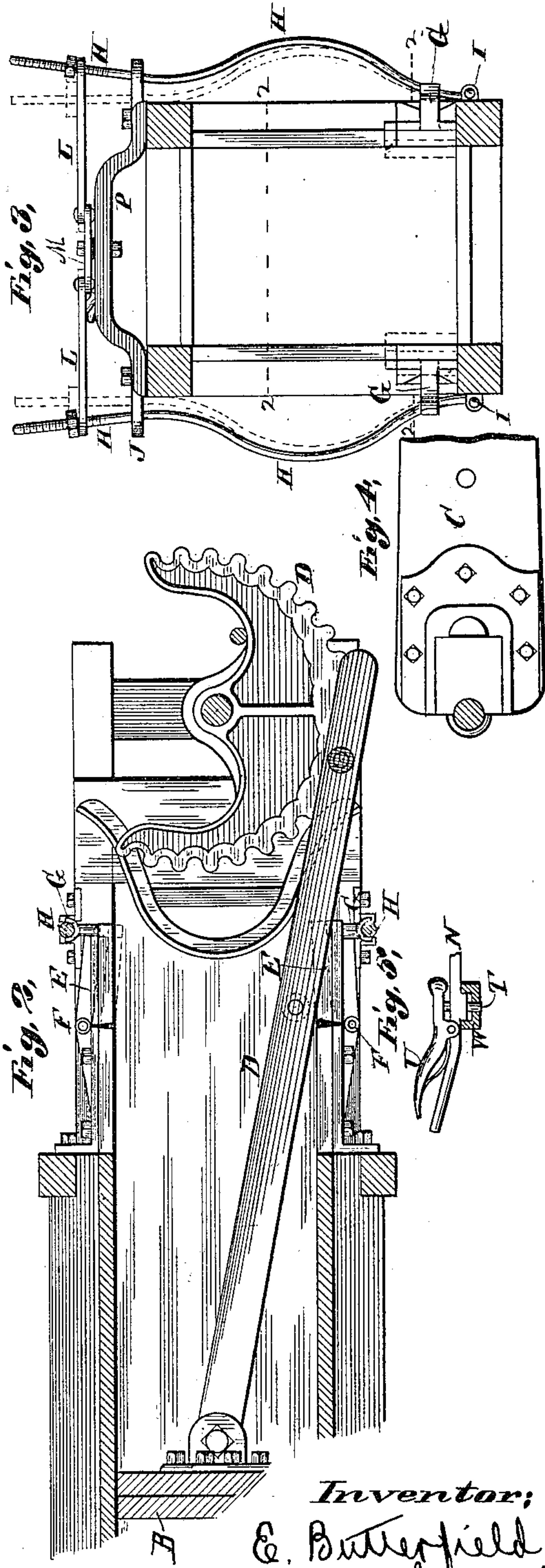
BALING PRESS.

No. 362,875.

Patented May 10, 1887.



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# UNITED STATES PATENT OFFICE.

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## BALING-PRESS.

SPECIFICATION forming part of Letters Patent No. 362,875, dated May 10, 1887.

Application filed October 28, 1886. Serial No. 217,448. (No model.)

*To all whom it may concern:*

Be it known that I, EPHRAIM BUTTERFIELD, of Wright's Corners, in the county of Dearborn and State of Indiana, have invented a certain  
5 new and useful Improvement in Baling-Presses, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, and in which—

10 Figure 1 is a top view of part of a baling-press illustrating my invention. Fig. 2 is a detail vertical horizontal section taken on line 2 2, Fig. 3. Fig. 3 is a vertical section taken on line 3 3, Fig. 1. Fig. 4 is a detail view  
15 showing the inner end of the sweep. Fig. 5 is an enlarged detail section of the rack and the lever in elevation for operating and holding the friction-shoes, this section being taken on line 5 5, Fig. 1.

20 My invention relates to a device for retarding the backward movement of the traverser or plunger of a baling-press, and my description will be confined to this part of the press, although other features which have no con-  
25 nection with my invention are shown in the drawings.

My invention consists in features of novelty, hereinafter fully described, and pointed out in the claims.

30 Referring to the drawings, A represents the body, B the traverser, C the sweep, and D the connection between the sweep and traverser, all of which may be made of any well-known construction, and I claim no invention, *per se*,  
35 therein.

It is well known that in this form of baling-presses the traverser or plunger, when the pressing is completed, is thrown back by the elasticity of the material being baled, and to  
40 prevent it from being thrown back too freely different devices have heretofore been adopted. My invention relates to a device for accomplishing this purpose, and consists in shoes yieldingly held in place near the outer end of  
45 the traverser-chamber. As here shown, shoes or blocks E are hinged to the frame of the press at the outer end of the traverser chamber, and which may be moved inward, as shown by dotted lines in Fig. 2, into the trav-  
50 erser-chamber to receive the impact of the

traverser, and by friction resist or retard the backward movement of the traverser. The free ends of the shoes are provided with socketed pieces G, against which bear rods H, hinged at I to the frame of the press, and ex-  
55 tending upward through slotted guide-plates J, secured to the top of the press. Fitting on the upper ends of these rods are plates or links L, the inner ends of which are connected to a tightener, M, consisting of a lever provided  
60 with a handle, N. The lever is pivoted at O to a cross-piece, P, of the press, and it will be seen that as the handle N is moved in the direction shown by the arrow in Fig. 1 the upper ends of the rods H will be moved to-  
65 ward each other from the position shown in Fig. 3 toward the position shown by dotted lines in Fig. 3. As this movement takes place the shoes E are caused to enter the traverser-  
70 chamber, and they may be moved inward more or less to give greater or less resistance to the backward movement of the traverser. They are held to given adjustments by a pin, T, on a spring-latch, U, pivoted to the outer end of  
75 the handle N, the pin entering perforations or holes V in a rack or bar, W. An enlarged view of the spring-catch, pin, rack, and outer end of the handle is shown in Fig. 5.

It will be seen that the bearing-point between the shoes and the rods H is at a point  
80 near the pivots I of the rods, so that a considerable purchase is given the rods and tightener in holding the shoes to their adjustment.

A device thus constructed is cheap and durable and effectually performs the function  
85 for which it is intended.

I claim as my invention—

1. In a baling-press, the combination, with shoes pivoted at one end to the frame at the outer end of the traverser-chamber, of an ad-  
90 justing device adapted to bear on the free ends of the shoes for holding them yieldingly in place for retarding the backward movement of the traverser, as set forth.

2. In a baling-press, in combination with  
95 the shoes, yieldingly held in place, for retarding the backward movement of the traverser, mechanism for operating the shoes, consisting of hinged rods and a tightener connected to the upper end of the rods, substantially as set forth. 100

3. In a baling-press, in combination with the shoes, yieldingly held in place, for retarding the backward movement of the traverser, mechanism for adjusting the shoes, consisting  
5 of hinged rods, a tightener connected to the rods and composed of a lever provided with a handle, and links connecting the lever with the rods, substantially as set forth.

4. In a baling-press, in combination with  
10 the shoes, yieldingly held in place, for retarding the backward movement of the traverser, mechanism for operating the shoes, consisting of hinged rods, links connected to the free ends of the rods, a pivoted lever to which the  
15 inner ends of the links are connected, a handle on said lever, a spring-catch provided with a pin on said handle, and perforated rack, with

which the pin on the catch engages, substantially as and for the purpose set forth.

5. In a baling-press, in combination with 20 the shoes, yieldingly held in place, for retarding the backward movement of the traverser, and socketed pieces G on the shoes, hinged rods bearing against the socketed pieces of the shoes, slotted guide-plates J, through which 25 the rods pass, links connected to the upper ends of the rods, and a tightener to which the inner ends of the links are connected, substantially as and for the purpose set forth.

EPHRAIM BUTTERFIELD.

Witnesses:

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