

S. Lamb,
Cotton Press.

N^o 3,086.

Patented May 12, 1843.

Fig. 1.

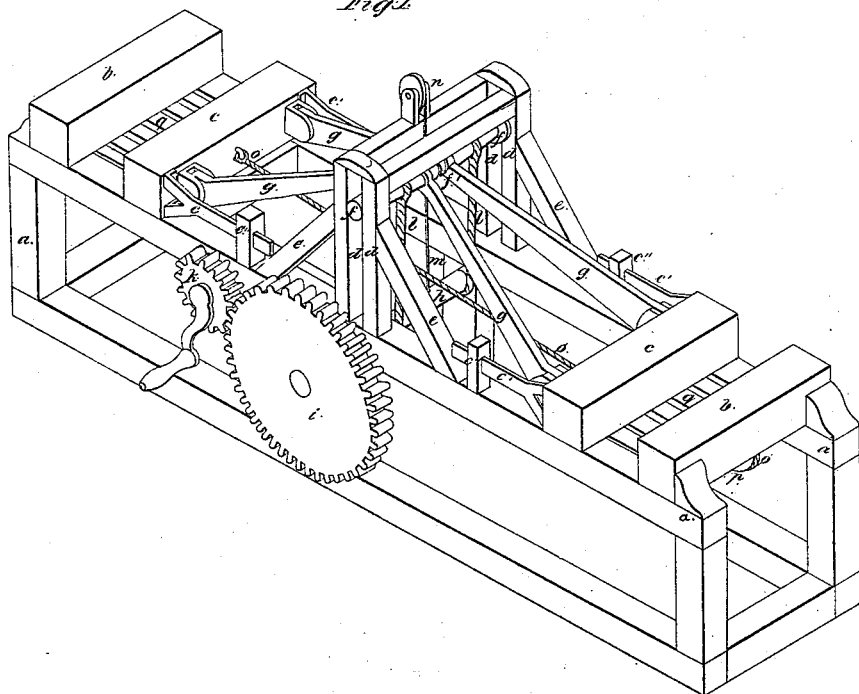
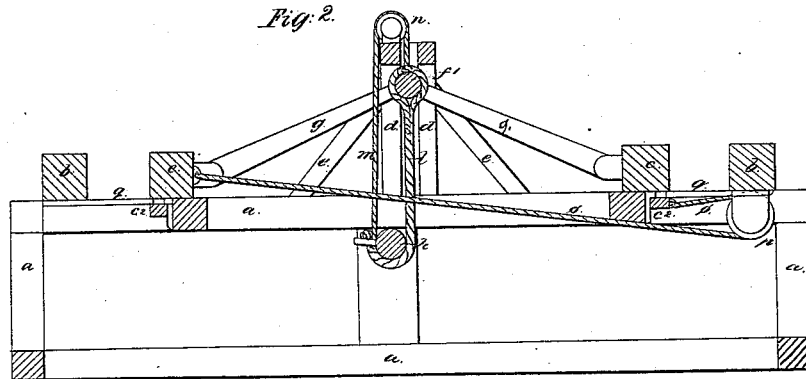


Fig. 2.



UNITED STATES PATENT OFFICE.

SETH LAMB, OF NEW YORK, N. Y.

IMPROVEMENT IN COTTON-PRESSES.

Specification forming part of Letters Patent No. 3,086, dated May 12, 1843.

To all whom it may concern:

Be it known that I, SETH LAMB, of the city, county, and State of New York, have invented a new and useful Improvement in the Toggle-Joint Cotton-Press; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is an isometrical view; Fig. 2, a longitudinal vertical section.

The nature of my invention consists in forming a double press with a single pair of levers in such a way as that one or both of the pressing-boxes can be used at a time.

The press is supported on a common oblong frame, *a*, at each end of which there is a press-box, (the top and sides of which are removed in the drawings.) At the outer ends there are foot-blocks *b*, against which the cotton is forced by the followers *c*. At the center of the frame four posts, *d*, are erected—two on each side—connected by cap-pieces and braced with stays *e*, which run from the frame up to them. These posts form ways on each side, in which small wheels *f* are guided up and down. These wheels are connected by a stout axle, *f'*, which extends across from one to the other. The followers *c* have a projection, *c'*, backward at each end, which moves in a groove in the post *c''* on the sills. Near each end of the followers are staples, to which levers *g* are attached—two to each follower—that meet at the center, and the axle *f'* passes through them all. In the frame-work below the axle *f'* there is a drum, *h*, on the shaft of which, outside the frame, a spur-wheel, *i*, is affixed. A pinion, *k*, works into this wheel, to which a crank can be attached; or a series of wheels and pinions can be connected, if desired, to increase the power upon the levers. To the drum *h* a chain, *l*, is attached near each end, which extend up to and are connected with the axle *f'*. At the center of the drum

there is also a chain, *m*, affixed, which winds around it in an opposite direction to those above named. This passes up over a pulley, *n*, (see Fig. 2,) on the connecting-pins of the posts *d*, and from thence down to the axle *f'*. By this arrangement, when the drum is turned one way, the double chains draw the axle down, and thus force followers outward. When it is turned in an opposite direction, the single chain raises it and draws the followers inward.

When only one of the press-boxes is to be used, there is a strong chain, *o*, attached to the follower on that side which passes over a pulley, *p*, affixed to the under side of the foot-block, and is thence carried back to the follower on the other side, with which it is connected. By this arrangement the strain is entirely taken off the other foot-block on the other end, and no friction is added to the wheels *f* and axle. At the bottom of the press-box are ribs *q*, that are firmly affixed to the foot-block *b* and a cross-brace in the frame. These give permanency to the foot-block. Below these ribs there is a piece of wood, *c''*, parallel with the follower, to which it is attached and forms a part of it.

The apparatus thus constructed forms a cheap and powerful press for cotton, hay, or other elastic substance.

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

1. The connection of the followers *c* with one of the foot-blocks *b* by means of the chain *o*, in the manner and for the purpose herein set forth.

2. The combination of the double levers, attached to the followers *c*, with the wheels and axle and drum, constructed and arranged as above specified.

SETH LAMB.

Witnesses:

J. J. GREENOUGH,
J. H. GODDARD.