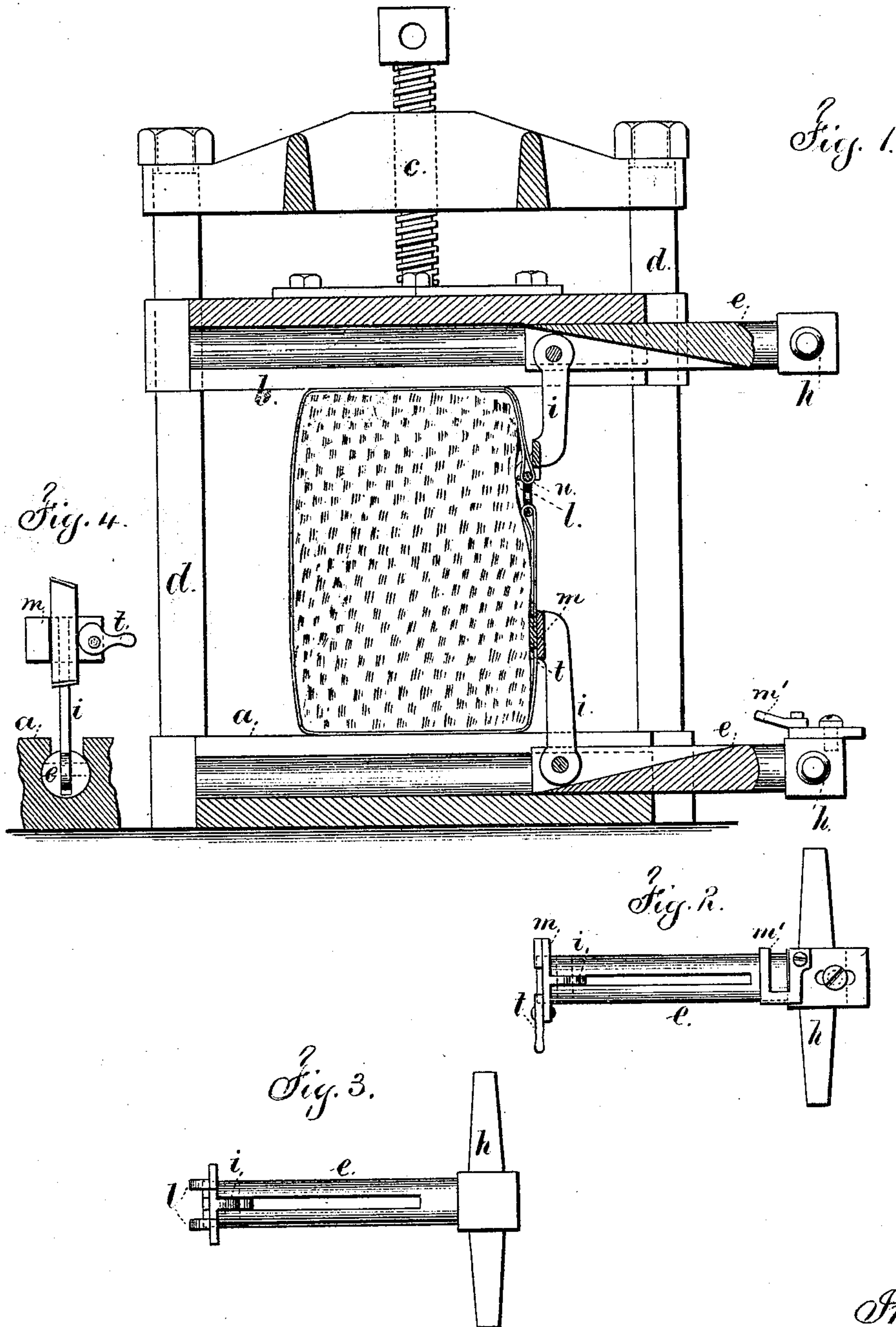


W. H. BROCK.  
BALING PRESS.

No. 181,631.

Patented Aug. 29, 1876.



Witnesses

Chas. H. Smith  
Harold D. Ferrell

Inventor

William H. Brock.  
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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN BALING-PRESSES.

Specification forming part of Letters Patent No. **181,631**, dated August 29, 1876; application filed February 25, 1876.

*To all whom it may concern:*

Be it known that I, WILLIAM H. BROCK, of Flushing, in the county of Queens and State of New York, have invented an Improvement in Baling-Presses, of which the following is a specification:

The object of this improvement is to draw the iron hoops tight that are employed in holding goods that have been baled.

I make use of a clamp to hold the hoop, and a sliding toggle, that simultaneously turns the hoop up to place and strains it tightly, so that the bale tie or buckle can be applied for holding the ends of the hoop together.

In the drawing, Figure 1 is a vertical cross-section of the baling-press with my appliances. Fig. 2 is a detached plan view of the lower straining-toggle, and Fig. 3 is an inverted plan of the upper straining-toggle; and Fig. 4 is an end view of the lower straining-toggle.

The lower platen or bed-block *a*, upper platen *b*, head-block *c*, and tie-rods *d* are of any usual or desired character, and the power is applied by a screw or otherwise.

The platens are grooved transversely, as usual. It is preferable to employ grooves that are each wide enough for the iron hoop, and then enlarged into a circular hole, so that the hoop can be easily passed through, as usual; and the said groove also receives the stock of the tightening apparatus.

The tightener is made of a stock, *e*, that is preferably a circular bar, with a handle, *h*, at one end, and of a size to slide freely endwise in one of the grooves; and each stock is grooved longitudinally, to receive a toggle-bar, *i*, to the outer end of which the hoop is connected, and the operation is that, as the stock is drawn along endwise, the tension of the hoop or strap swings the toggle-bar up toward the bale, and the power to strain the strap increases until the toggle assumes a position at right angles to the stock. The heel of the toggle prevents further move-

ment, and the hoop is held firmly while the ends are fastened together by any suitable bale-tie.

It will usually be best to bend up one end of the hoop into a loop, insert one part of the bale-tie *n* in the same, and hook such tie and hoop upon the hooks *l*, that are upon the toggle-bar of the upper stock, so that the bale-tie will be in place. The hoop is then drawn around the bale, and caught between a clamp, *t*, and the stationary jaw *m* upon the toggle-bar *i* of the lower stock *e*.

The hoop will be drawn tight by operating the two stocks, as aforesaid; and the hoop may be folded back by hand, or a hand-tool, to the proper place, so that it will be of a length to reach the bale-tie, and where that bale-tie is in the form of a staple the stock can be turned sufficiently to allow for hooking the loop at the end of the hoop upon the staple of the tie. The clamp *t* is now turned back to liberate the hoop, and the stocks pushed in, so as to liberate the toggle-bars, and place them in position for the next hoop.

It will be apparent that the hinge toggle-bar *i* will act as a swinging bale-tie holder if the sliding bar is not moved, in which case it will be used to bend the hoop, and carry the bale-tie properly down against the side of the bale, and the tension will be applied to the other end of the hoop. The hinge upon which this arm swings may be attached in any convenient manner at or near the surface of the platen.

If desired, a gage-hook, *m'*, upon an adjustable slotted slide may be attached to the stock, so that the hoop may be bent around such hook, and the length of the hoop be thereby determined.

The hook is to be turned aside before the hoop is strained.

I claim as my invention—

1. The combination, with a baling-press, of the sliding stock and toggle-bar to strain the hoop, substantially as specified.



2. The combination, with the sliding stock and toggle-bar, of a clamp to grasp and hold the hoop, substantially as set forth.

3. The gage-hook *m'*, in combination with the stock and toggle-bar, substantially as set forth.

4. The toggle-bar *i*, hinged at one end, near the surface of the platen, in combination with the bale-tie holder at the end of said bar *i*, for

holding one end of the hoop, and bending the hoop against the side of the bale, substantially as specified.

Signed by me this 19th day of February,  
A. D. 1876.

WILLIAM H. BROCK.

Witnesses:

GEO. T. PINCKNEY,  
CHAS. H. SMITH.