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THOMAS STIBBS.

Improvement in Press for Pressing Yarn, &c.

No. 119,195. Patented Sep. 19, 1871.

Fig. 1.

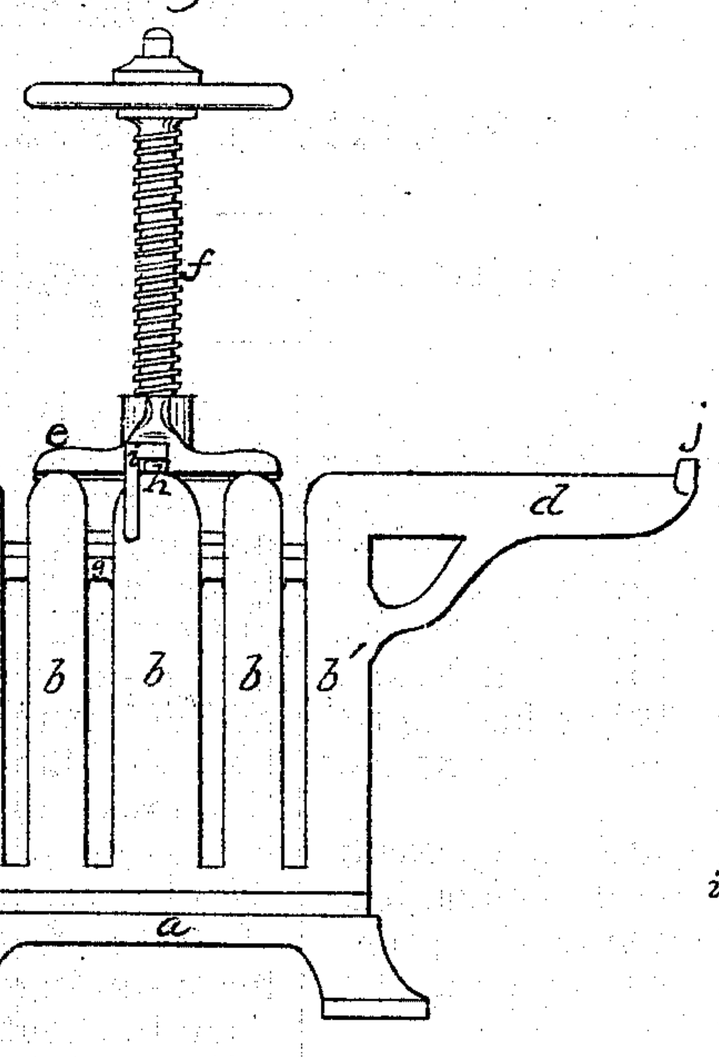


Fig. 3

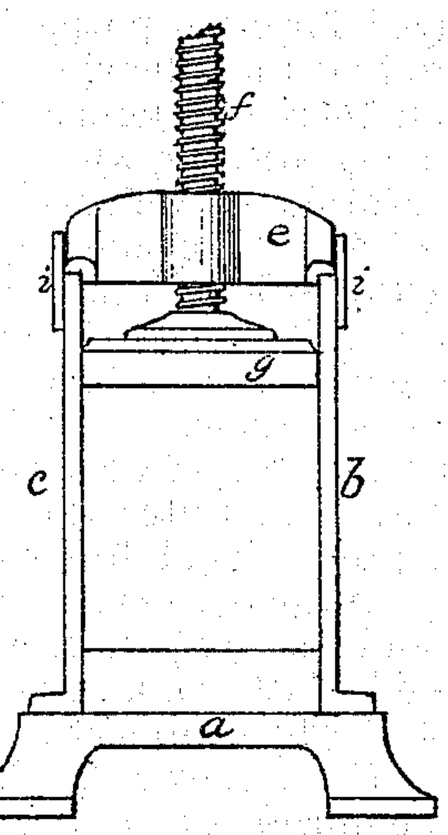


Fig. 2

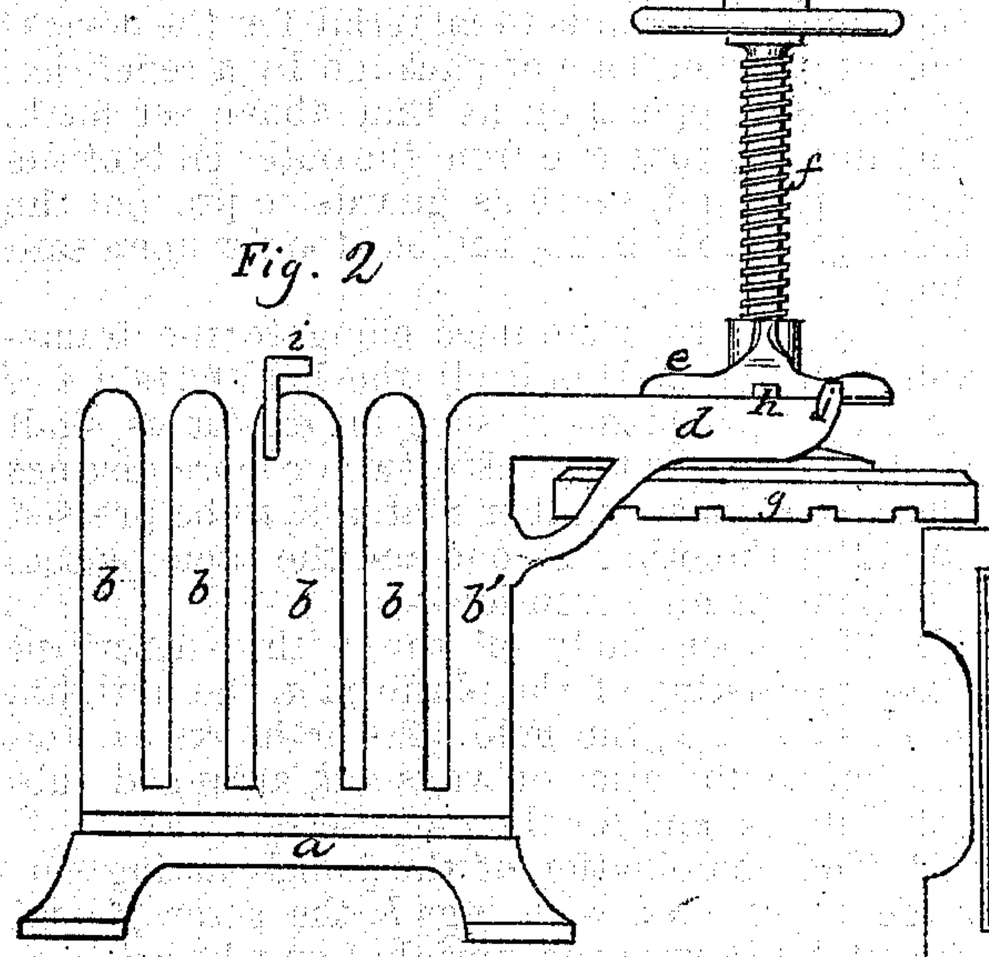
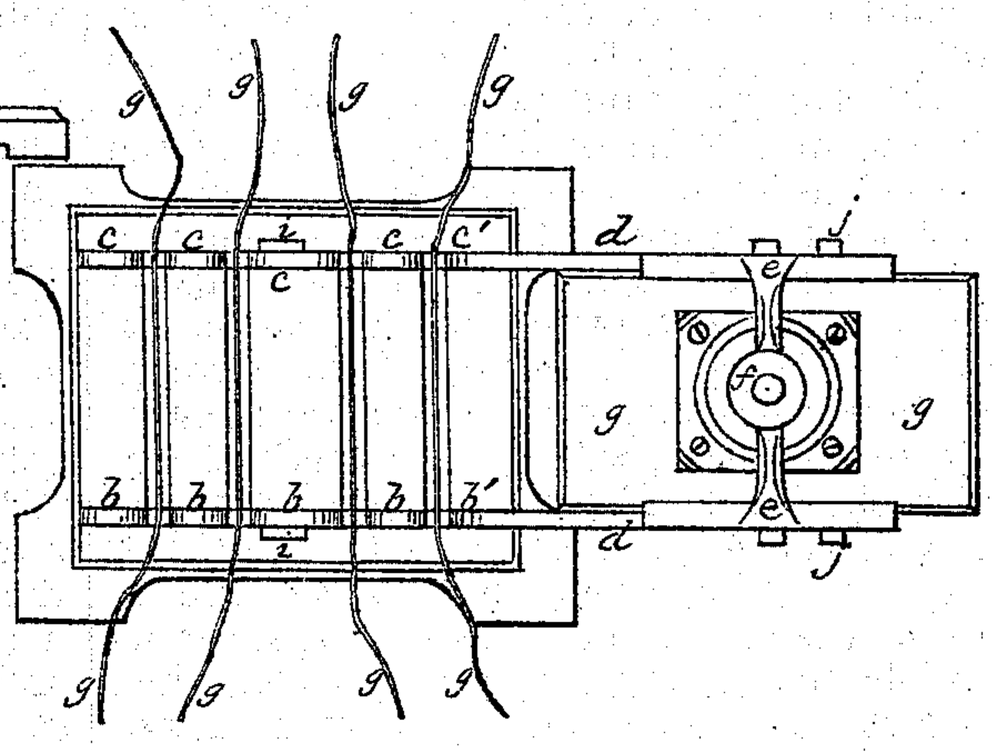


Fig. 4



Witnesses.
W. Morris Smith
H. A. Daniels

Inventor.
Thomas Stibbs
By his attorney F. C. Robbins

UNITED STATES PATENT OFFICE.

THOMAS STIBBS, OF WOOSTER, OHIO.

IMPROVEMENT IN PRESSES FOR PRESSING YARN, &c.

Specification forming part of Letters Patent No. 119,195, dated September 19, 1871.

To all whom it may concern:

Be it known that I, THOMAS STIBBS, of Wooster, in the county of Wayne and State of Ohio, have invented a new and improved press, which is especially designed for pressing yarn but may be employed for other purposes; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing which forms a portion of this specification, of which—

Figures 1 and 2 are side elevations, representing different positions of the laterally-movable as well as vertically-movable platen of the press; Fig. 3, an end view of said press; and Fig. 4, a top view of the same.

An open frame-work, of the shape shown in the drawing, constitutes the body of my said improved press. Said frame-work consists of the base platform *a*, the vertical uprights or ribs *b b b b b′* and *c c c c c′*, which rise from opposite sides of said platform, and the horizontal arms or ways *d d*, which project outwardly from the uprights *b′ c′*, as shown in Fig. 1. The upper ends of the uprights or ribs *b b*, *c c*, &c., are all brought to the same horizontal plane with the upper edges of the arms or ways *d d;* and the respective series of said uprights are also in line with the arm *d*, which projects from the right-hand upright of each of said series. A metallic carriage, *e*, of such a shape that its sides will rest upon and pass a short distance within the inner sides of the upper ends of the respective series of uprights *b b*, *c c*, &c., is placed upon the frame of the press, and may be freely moved to and from the various positions represented in the drawing. A vertical screw-aperture in the central portion of the carriage *e* receives the screw *f*, whose lower end is swiveled to the platen *g*, which platen works freely between the inner sides of the series of frame uprights or ribs *b b*, *c c*, &c., as shown in Fig. 3.

I prepare my improved press for the free reception of the yarn to be pressed by first screwing the platen *g* up to its highest position; then running the carriage *e* and the platen *g* out upon the arms or ways *d d* to about the position shown in Fig. 2; and then placing the tie-ropes *g g* through the open spaces between the uprights or ribs *b b c c* into the transverse grooves in the platform *a*. After the requisite quantity of yarn has been placed within the space above the platform *a* the requisite tie-ropes are placed transversely above the same through the spaces between the respective uprights *b b*, &c., and *c c*, &c., and then the carriage *e* and the platen *g* are run inward until the lugs *h h*, which laterally project from opposite sides of said carriage, are carried under the retaining heads of the hold-fasts or hooks *i i*, which hold-fasts rise from and are secured to or form a portion of the central uprights or ribs *b c* of the frame-work of the press, as shown in Figs. 1 and 2; then, when thus prepared, the platen *g* is forced downward by the application of the requisite degree of power to the rotation of the screw *f*. After attaining the requisite degree of pressure upon the contents of the press, and after properly securing the ends of the tie-ropes to each other, the platen *g* is moved upward by a reverse movement of the screw *f*, and is then run outward upon the arms or ways *d d* preparatory to the removal of the pressed bale and the reception of the requisite material for the formation of another bale or package by a repetition of the same operation as that above set forth. The lugs *j j*, that rise from the outer ends of the frame arms *d d*, serve as guards to prevent the carriage *g* from being run out too far upon said arms.

I propose to sometimes elongate the frame-work, swivel, and multiply the hold-fasts *i i* of my improved press to such an extent as shall enable the press to receive two or more distinct charges of yarn or other material, to be pressed one after the other by one and the same platen.

I claim as my invention—

1. The open body of the within-described press, consisting of the platform *a*, the uprights or ribs *b b′ c c′*, the hold-fasts or hooks *i i*, and the horizontal arms or ways *d d*, arranged substantially as and for the purpose set forth.

2. The combination of the jointly-acting carriage *e* provided with lugs *h*, the screw *f*, and the platen *g* with the uprights or ribs *b b′ c c′*, horizontal arms or ways *d d*, and the hold-fasts or hooks *i i*, of the body portion of the press, substantially as and for the purpose set forth.

In testimony that the foregoing is a full and clear specification of my new and improved press for compressing yarn, &c., I hereunto subscribe my name.

THOS. STIBBS.

Witnesses:

A. J. DEWITT,

S. R. BOUNITZ.

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