(No Model.) 2 Sheets—Sheet 1.

G. A. WHITE.

BUNDLING MACHINE.

No. 283,049. Patented Aug. 14, 1883.

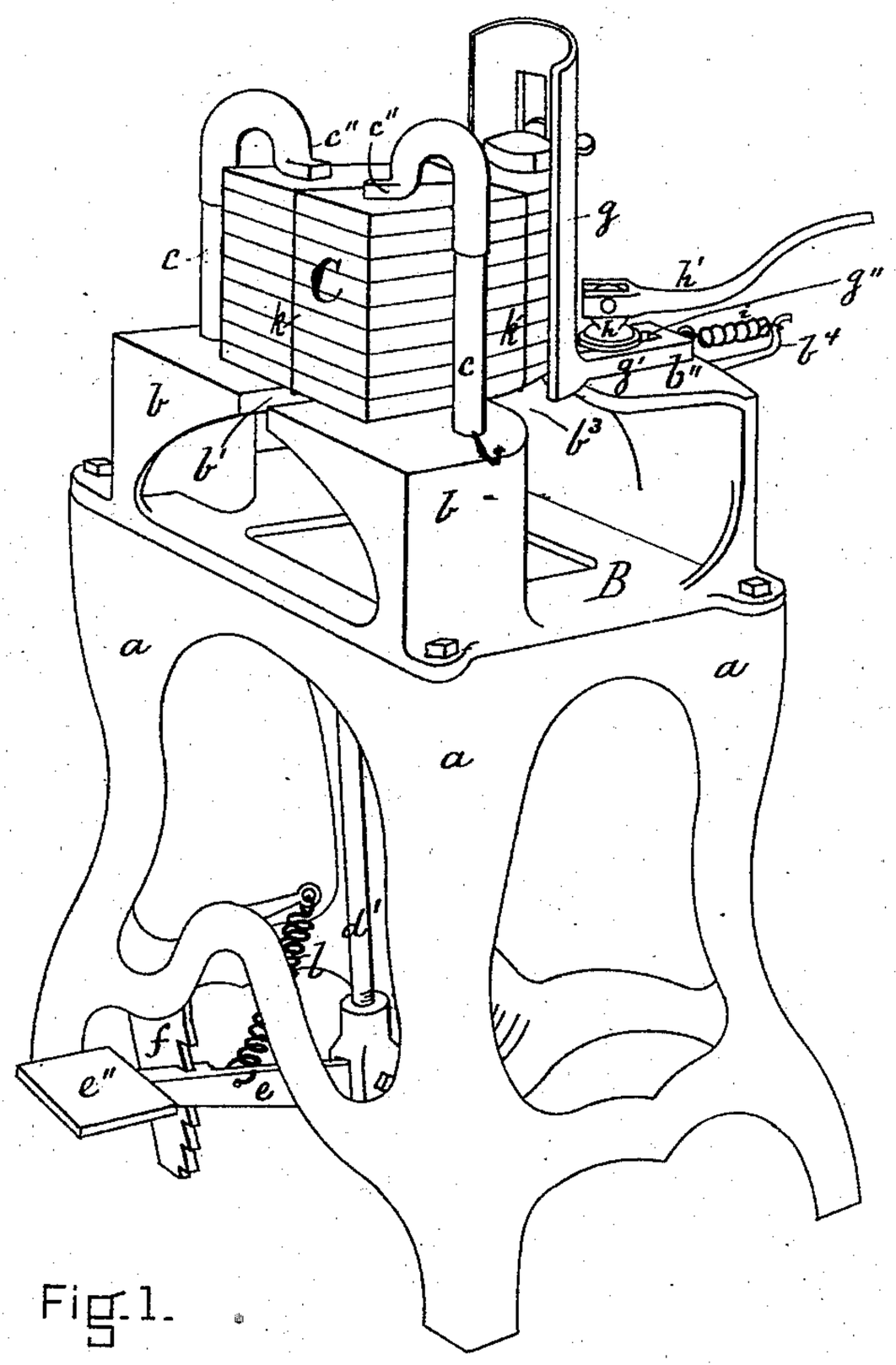

Fig. 1.

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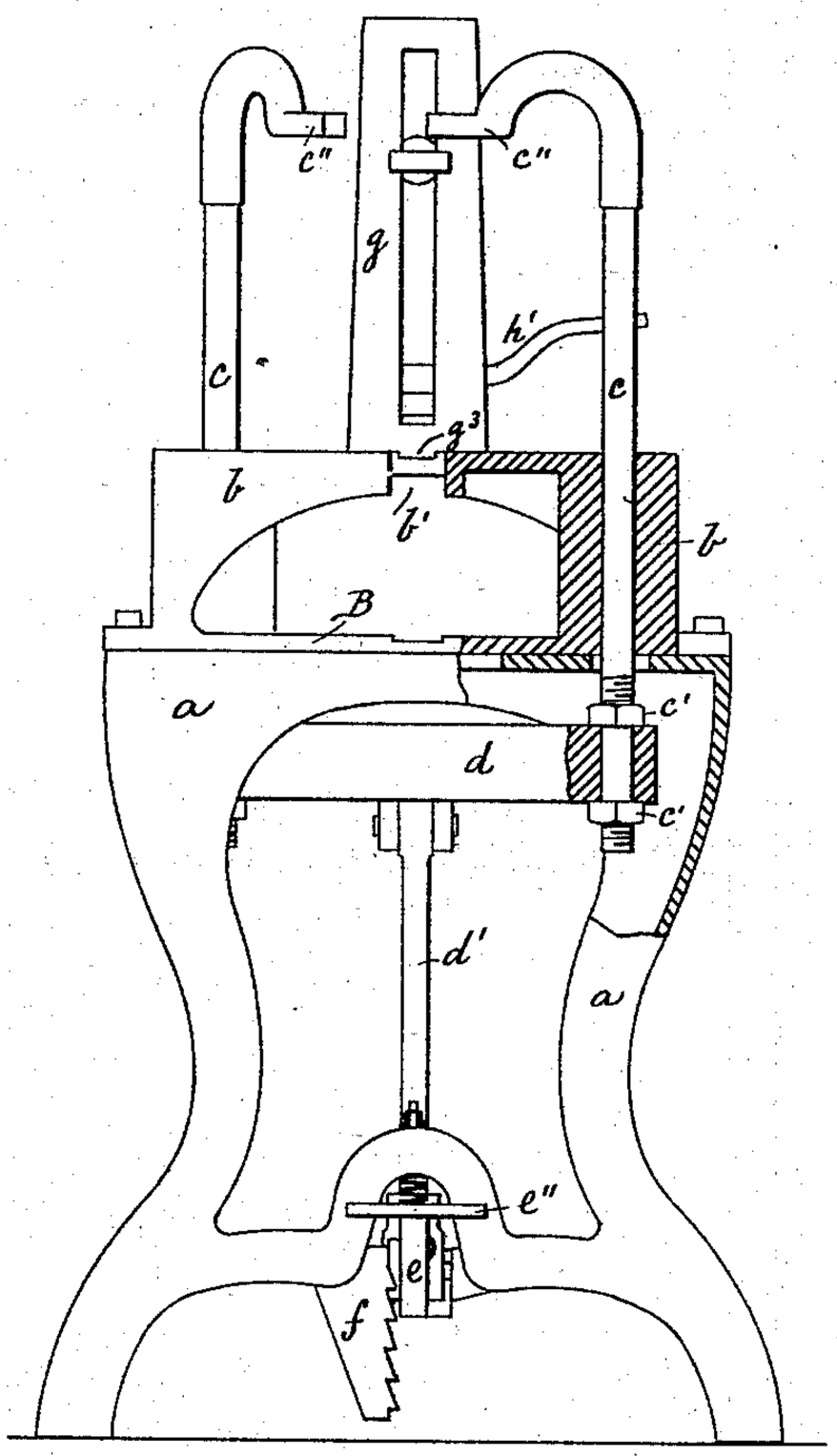

Fig. 2.

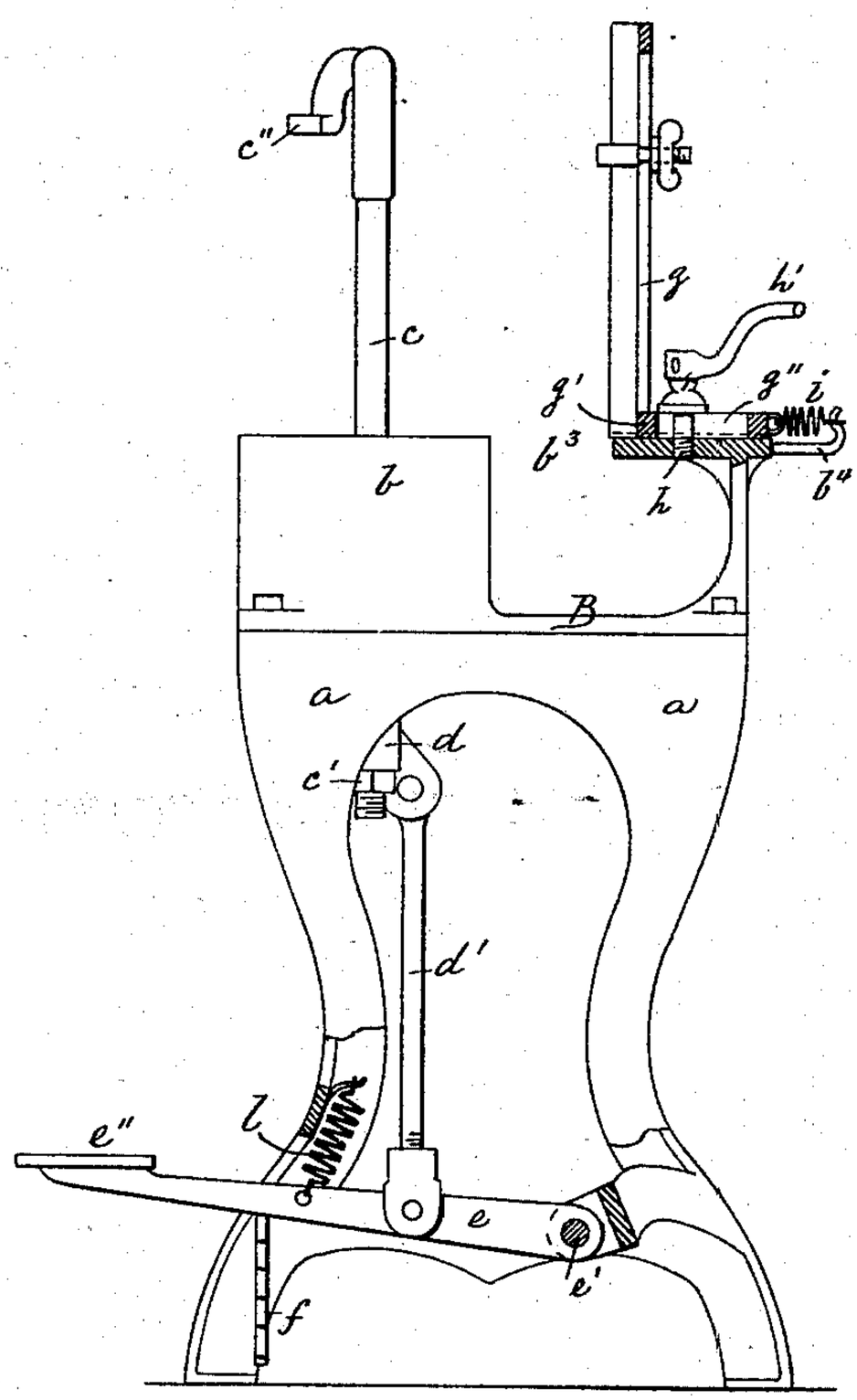

Fig. 3.

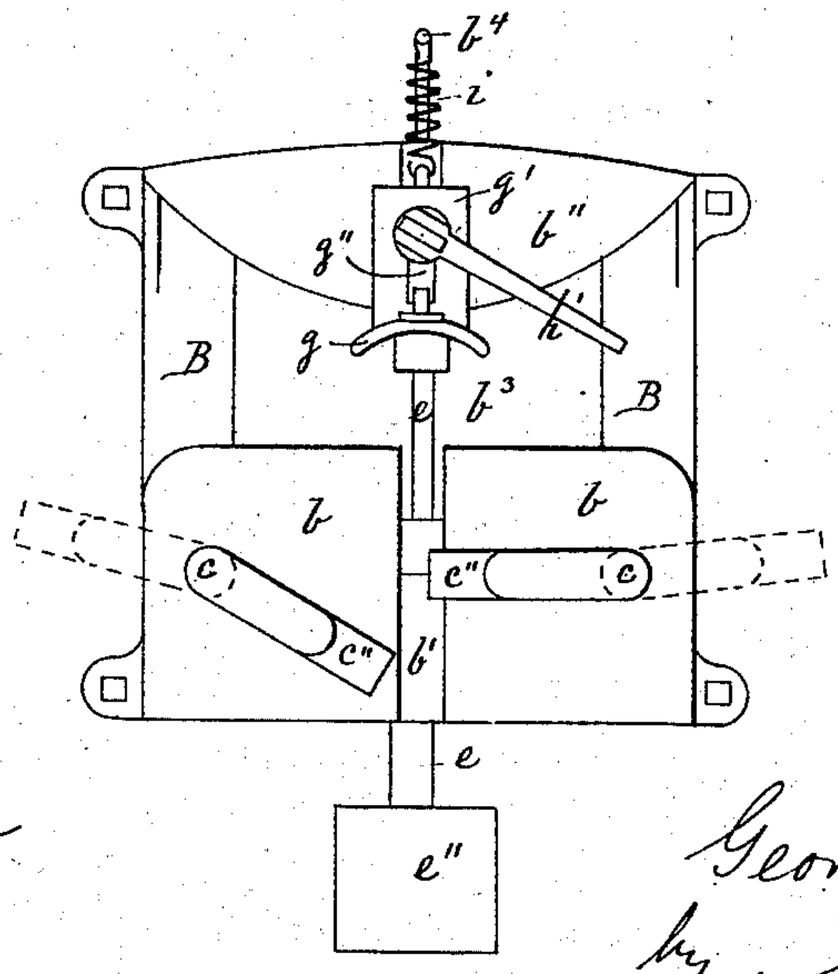

Fig. 4.

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UNITED STATES PATENT OFFICE.

GEORGE A. WHITE, OF BOSTON, MASSACHUSETTS.

BUNDLING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 283,049, dated August 14, 1883.

Application filed April 23, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE A. WHITE, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Bundling-Machines; and I do hereby declare that the same are fully described in the following specification and illustrated in the accompanying drawings.

This invention relates to improvements in bundling-machines particularly designed and adapted for clamping and holding together soles or heel-lifts while in the act of tying or wiring them together, although the invention is also useful for bundling other articles, as may be desired.

The invention is fully represented in the accompanying drawings, where—

Figure 1 represents a perspective view of the machine while in use. Fig. 2 represents a front elevation of the machine, shown partly in section. Fig. 3 represents a sectional side elevation of the same, and Fig. 4 represents a top view.

Similar letters refer to similar parts wherever they occur on the drawings.

a represents a suitable base or frame or support, which may be made of wood or metal, as may be desired. To the top of the frame *a* is secured the work-supporting piece B, which is preferably made of metal and cast in one single piece, and is composed of the front supports, *b b*, divided by means of the cut-away channel or opening *b'*, as shown, and the rear support, *b''*, divided from the front supports, *b b*, by means of the channel or opening b^3, as shown.

Through the front supports, *b b*, are made two vertical perforations, in which the pressure-rods *c c* are guided as they are moved up and down. The lower ends of said rods *c c* are secured by means of adjustable nuts *c' c'* to the cross-bar *d*, to which is jointed the upper end of the link *d'*, the lower end of which is hinged to the foot-treadle lever *e*, as shown in Fig. 3.

The treadle-lever *e* is hinged in its rear end at *e'* to the supporting-frame *a*, and has in its forward end a suitable plate or treadle, *e''*, on which the operator presses his foot, so as to draw the rods *c c* downward, and causing their upper curved ends, *c'' c''*, to press downward on the top of the pile of soles or heels C, as shown in Fig. 1.

f is a toothed locking-bar, secured to lower part of support *a*, and adapted to receive in its toothed side the edge of the treadle-lever *e*, so as to hold the curved feet *c'' c''* firmly pressed on top of pile C while the operator is in the act of wiring or tying it together.

g is a guide-piece, with its base *g'* adjustable to or from the front supports, *b b*, for which purpose its base *g'* is provided with a slot, *g''*, through which passes the set-screw *h*, the lower end of which is screwed into the top of the rear support, *b''*, and provided with a suitable handle or lever, *h'*, hinged to its head, as shown in Figs. 1, 3, and 4, by which said screw may be easily manipulated to secure and release the guide-piece *g*.

i is a coiled spring, one end of which is fastened to the guide-plate *g'* and the other end to an extension or arm, b^4, on the rear support, *b''*, which serves to automatically draw the guide-piece *g* backward away from the pile C as soon as the set-screw *h* is loosened. The bottom of the plate *g'* is provided with a guide projection, g^3, adapted to be guided and to move in a corresponding groove in the top of the rear support, *b''*.

The operation of the machine is as follows: The guide *g* is drawn forward as far as its slot *g''* will permit, and then secured in place by tightening the set-screw *h* by means of its handle *h'*. A pile of soles or heel-lifts C is then placed on top of the front supports, *b b*, and the forward ends of such soles or heel-lifts pushed up against the guide *g*, after which the operator presses down on the treadle *e*, causing the curved ends or feet *c'' c''* of the pressure-rods *c c* to press downward on the top of the pile C, so as to hold the different layers in close contact with each other, and the feet *c'' c''* are retained in such position by locking the treadle-lever *e* into one of the teeth of the locking-bar *f*, as shown in Fig. 1. I now release the screw *h* by turning the handle *h'*, when the guide *g* is drawn backward away from the rear end of the pile C by the influence of the spring *i*, when the pile is in a condition to be bundled by passing a wire or twine, *k*, crosswise around said pile, such wire or twine being first passed through channel b^3, and afterward in a longitudinal direction un-

der the pile through channel *b'*, then up at the front end and between the feet *c'' c''* on top of the pile, where it is united to the first-named cross-laid wire or twine, by which the pile is firmly united together, after which the treadle-lever *e* is released from the toothed locking-bar *f* and the pressure-rods *c c* caused to move automatically upward by the influence of the spring *l*, one end of which is secured to the treadle-lever *e* and the other end to a suitable part of the frame or support *a*, and in this manner the pressure-feet *c'' c''* are lifted above the pile C, after which the latter may be removed and another pile put in its place to be bundled or tied or wired as above set forth, and so on.

Flat or elliptic springs or weights may be substituted for the coiled springs *i* and *l* without departing from the essence of my invention.

What I wish to secure by Letters Patent, and claim, is—

The herein-described bundling-machine, consisting of the frame *a*, front supports, *b b*, rear support, *b''*, with the longitudinal and lateral channels *b' b³* between the supports, the vertically-adjustable pressure-rods *c c*, having upper pressure-feet *c'' c''*, and means for operating, locking, and releasing them, as set forth, in combination with the adjustable rear guide, *g*, and its locking and releasing mechanism, as and for the purpose set forth and specified.

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

GEORGE A. WHITE.

Witnesses:
ALBAN ANDRÉN,
HENRY CHADBOURN.