

(No Model.)

P. J. OLANDER.
FOLDING SPRING MATTRESS.

No. 274,963.

Patented Apr. 3, 1883.

Fig. 1.

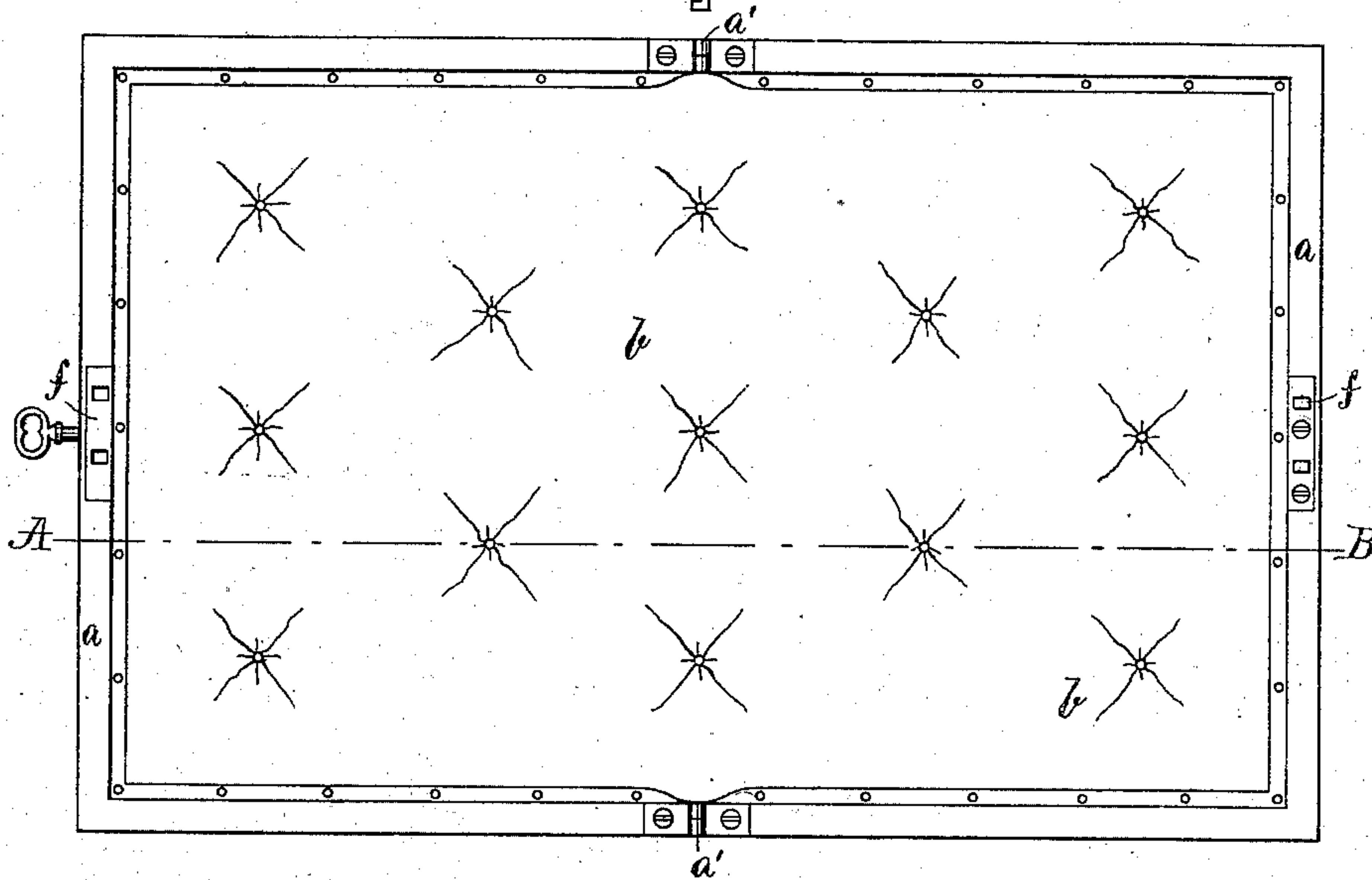


Fig. 2.

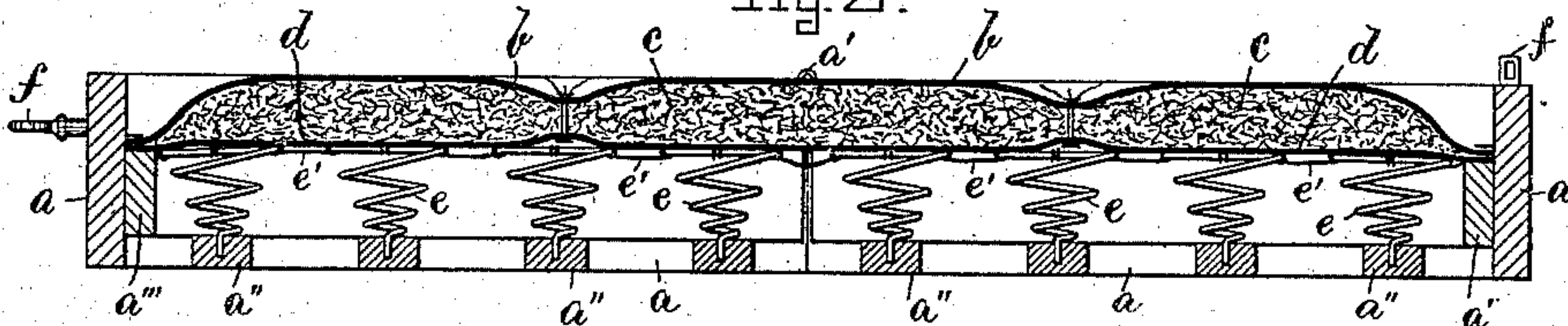


Fig. 3.

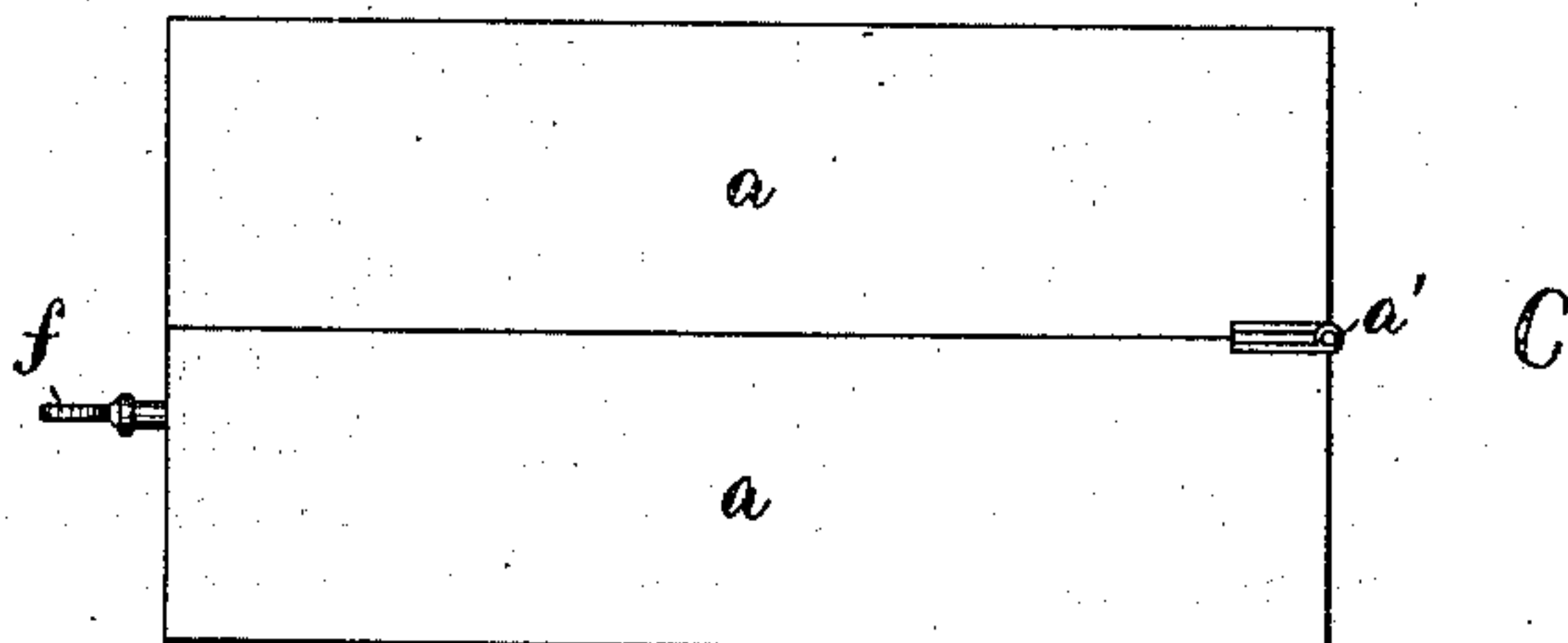
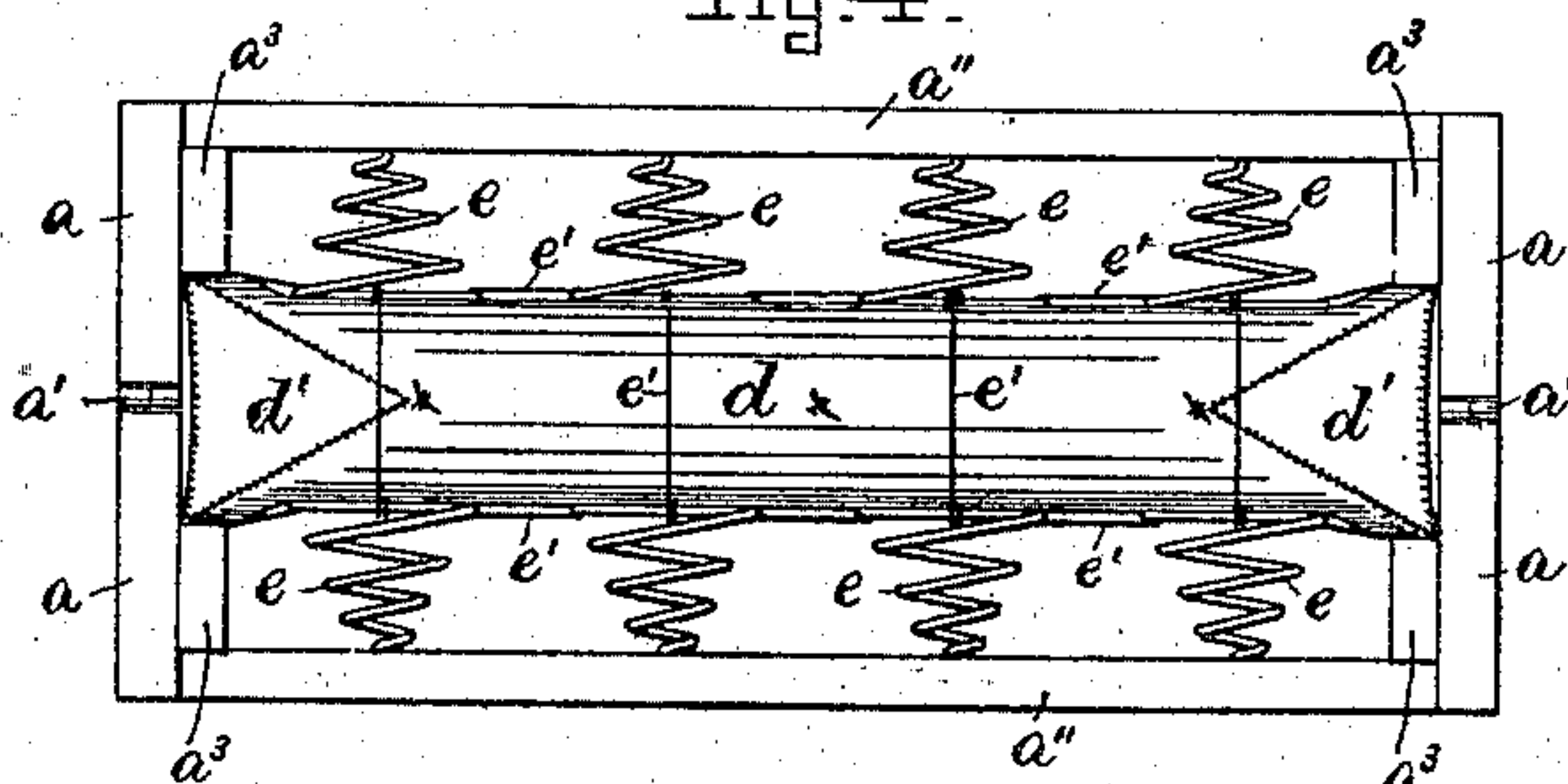


Fig. 4.



Witnesses
Henry Chadburn.
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by *Alfred Andrus*
his atty.

UNITED STATES PATENT OFFICE.

PAUL J. OLANDER, OF BOSTON, MASSACHUSETTS.

FOLDING SPRING-MATTRESS.

SPECIFICATION forming part of Letters Patent No. 274,963, dated April 3, 1883.

Application filed January 20, 1883. (No model.)

To all whom it may concern:

Be it known that I, PAUL J. OLANDER, 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 Folding Spring-Mattresses; 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 folding spring-mattresses, and it is carried out as follows, reference being had to the accompanying drawings, where—

Figure 1 represents a plan view of my improved mattress. Fig. 2 represents a longitudinal section on the line A B, shown in Fig. 1. Fig. 3 represents a side elevation of the invention, shown as closed together; and Fig. 4 represents an end view of the improved mattress when closed, as seen from C in Fig. 3.

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

a a represent the wooden frame, made in two parts, which are hinged together at their upper sides by means of suitable hinges, *a' a'*, as shown in Figs. 1 and 3.

a'' a'' a'' are the slats secured to the under side of the frame *a a*.

b represents the ticking.

c is the horse-hair or other stuffing, and *d* is the canvas or bottom of the mattress.

a³ is a ledge on the inside of the frame *a a*, to which the ticking *b* and canvas *d* are tacked and secured, as shown.

e e are coiled metal springs interposed between the under side of the canvas *d* and the upper side of slats *a'' a''*, as shown in Figs. 2 and 4. The springs *e e* are held in their proper relative positions by means of the connecting-cords *e' e'*, as usual.

When the mattress is in use it is laid out flat, as shown in Figs. 1 and 2; but when not in use I fold it together, as shown in Figs. 3 and 4, so as to occupy but a comparatively small compass, and in this folded condition it may be put away or transported with great ease and convenience.

To enable the mattress to be folded in the manner as described, I provide the canvas *d*, in proximity to the hinges *a' a'*, with gores *d' d'*, as shown in Fig. 4, slits being for this purpose made on two opposite sides of the said canvas *d*, and the gores *d' d'* sewed to the edges of the slits, by which arrangement an increased fullness of the canvas *d* is obtained, so as to enable the mattress to be doubled upon itself when not required for use.

Folding mattresses have heretofore been made sometimes of an uneven thickness—that is, very thin at the folding place as compared with its other parts; also, divided entirely at the folding place to enable it to be doubled up; but such arrangements are objectionable on account of not providing an even support throughout the length of the mattress. Such objection is entirely overcome by my improvement of interposing the gores *d' d'* in proximity to the hinges on which the frame *a a* is folded or swung, and making the mattress of an even and uniform thickness throughout its length.

If so desired, the ends of the frames *a a* may be provided with a suitable lock and key, *f*, as shown in Fig. 3, or other suitable locking device, to enable the folded frames to be locked during transportation or when the mattress is not in use; and it may in this condition serve as a trunk or valise, or packing-box for packing bedding, clothing, or other articles.

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

The herein-described improved folding mattress, consisting of frames *a a*, hinged together at *a' a'*, and having slats *a'' a''*, ticking *b*, the uniform stuffing *c*, canvas *d*, with its gores *d' d'*, and the coiled spring *e e*, all combined and arranged substantially as set forth.

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

PAUL J. OLANDER.

Witnesses:

ALBAN ANDRÉN,
HENRY CHADBURN.