(Model.)

A. L. ADAMS.

CHEST OF DRAWERS.

No. 296,905. Patented Apr. 15, 1884.

Fig. 1.

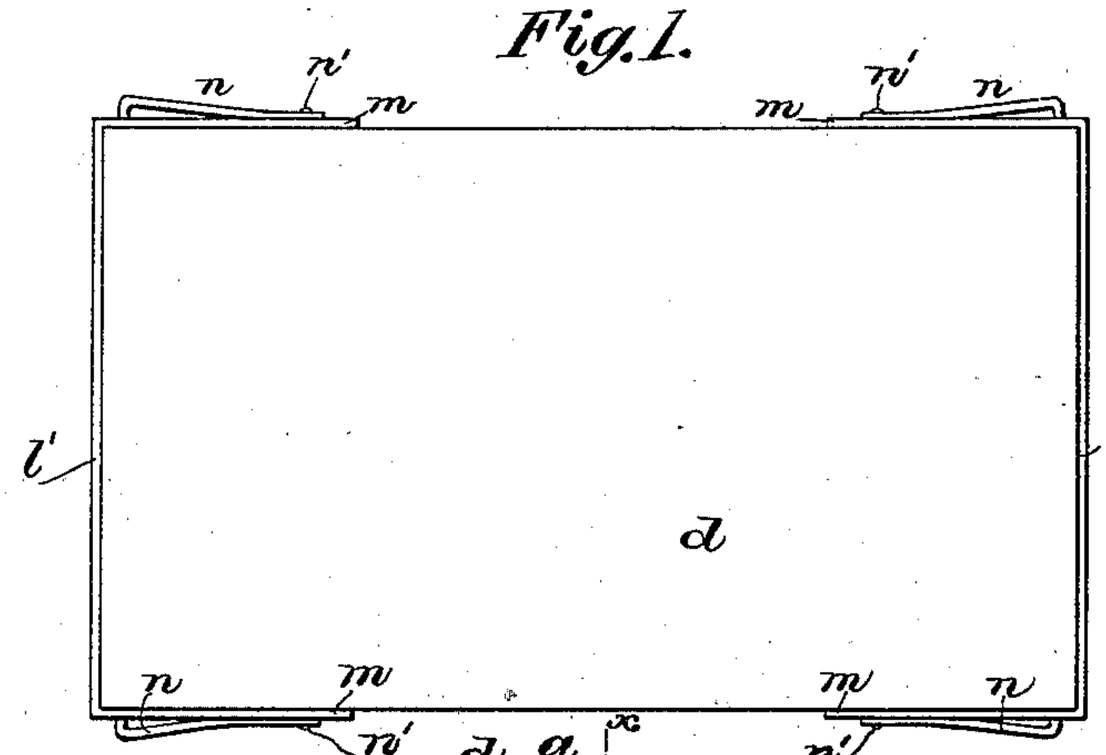

Fig. 2.

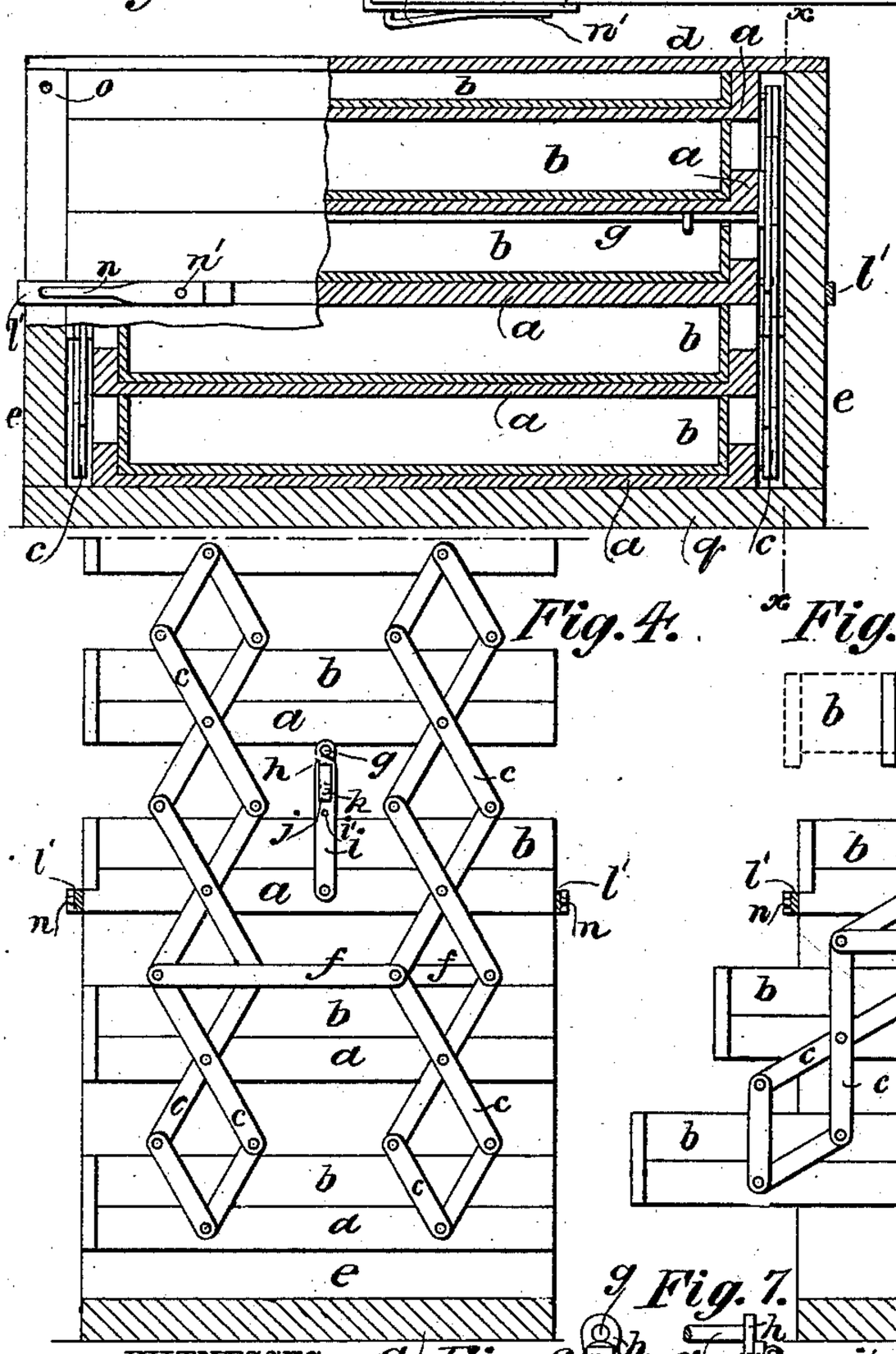

Fig. 3.

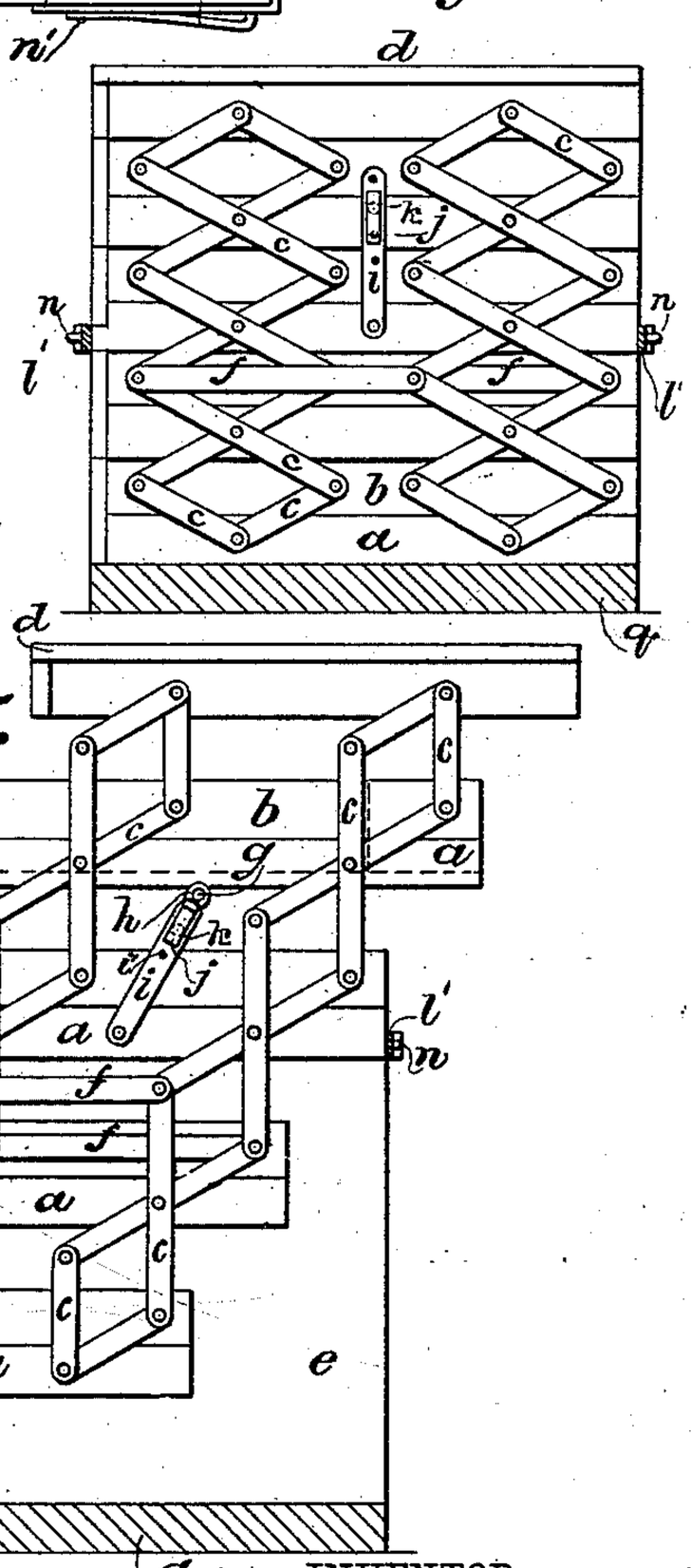

Fig. 4.

Fig. 5.

Fig. 6.

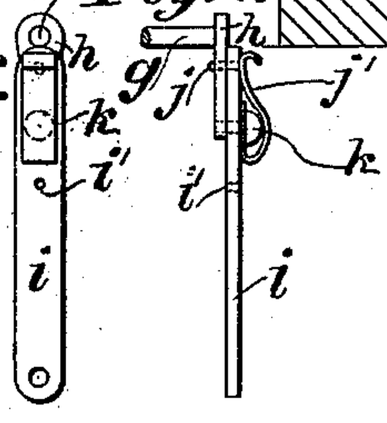

Fig. 7.

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ABE LINCOLN ADAMS, OF FLY CREEK, NEW YORK.

CHEST OF DRAWERS.

SPECIFICATION forming part of Letters Patent No. 296,905, dated April 15, 1884.

Application filed April 11, 1883. (Model.)

To all whom it may concern:

Be it known that I, ABE L. ADAMS, of Fly Creek, in the county of Otsego and State of New York, have invented a new and Improved Chest of Drawers, of which the following is a full, clear, and exact description.

My invention consists of a contrivance of trays or frames for the drawers of a chest, trunk, bureau, desk, or other cabinet article, for extension, either upright or inclined, by means of lazy-tongs attached to the ends of the trays, together with an adjustable support on the case and a latch device to hold the trays in extension to facilitate access to the drawers for packing and unpacking them, all as hereinafter fully described.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a top view of a chest of drawers constructed according to my invention. Fig. 2 is partly a front elevation and partly a longitudinal elevation of the chest with the drawers folded down in it. Fig. 3 is a transverse section of Fig. 2 on the line *x x*. Fig. 4 is a section of Fig. 2 on line *x x*, showing the drawers extended vertically. Fig. 5 is a section on line *x x* of Fig. 2, showing the drawers extended on an incline. Figs. 6 and 7 are side and edge elevations of the latch device for holding the drawers in the extended positions.

I connect the trays or frames *a*, in which the drawers *b* are to slide, together at the ends by the two systems of lazy-tongs frames *c*, to enable the trays to be extended as shown in Figs. 4 and 5, the cover *d* of the chest in which the trays are located being arranged to lift off with the upper tray, and the two systems of lazy-tongs of each end of the trays being connected together by the parallel bars *f*, to stay them laterally.

For a latch to secure the trays in the extended condition when required, I arrange a rod, *g*, under one of the trays, extending from end to end, and having a short crank, *h*, on each end, that is pivoted to a short bar, *i*, pivoted to the next tray below, which are to be locked together by the pin *j*, fixed to a spring, *j'*, which is bent at one end next pivot-bolt *k* for increased length, to afford an easy withdrawal of the pin *j* from its bearings in crank *h* and bar *i*, said spring *j'* being supported on the pivot-bolt *k* by an eye or loop, and the opposite end of the spring being bent over to form a finger-piece for more easily operating it. The pin *j* may thus be drawn backward and set in the hole *h'* of the crank *h* and in upper hole *i'* in bar *i*, for locking the trays in extended position; or the pin *j* may be set in the lower hole *i'* and in hole *h'* of the crank *h* when the trays are folded down.

To make the middle tray *a* serve as a fulcrum on which the others may swing into the inclined position represented in Fig. 5, and also to confine them to the case when extended vertically, I connect it to the ends *e* of the chest or case by an iron band, *l'*, attached to the edges of said tray at *m*, and extending around the ends of the case, to prevent said middle tray from shifting laterally from between said ends, the straps being capable of sliding up and down to allow of the extension of the trays, and having spring-catches *n*, pivoted at *n'*, preferably, to the center tray, to catch in the holes *o* at the middle and upper ends of the edges of the sides of the case, for holding the trays in closed position, and also for aiding the catches *j j'* in holding the trays in extended position, the catches *n* being arranged to swing on pivots *n'*, so as to be turned one side, to avoid scratching or marring the edges of the case by the ends of the catches rubbing against them. The latch *g i* will hold the trays in extension, whether vertical or inclined, and the trays balance each other on the middle tray when set in inclination, thus making an efficient contrivance for facilitating access to the drawers for packing and unpacking. The case consists only of the bottom *q*, ends *e*, and the removable top *d*, the sides being closed by the front and back edges of the drawers and trays. The case, as shown, is more especially intended for holding the chest of drawers to fold down closely to the bottom *q* by a sliding of the bands *l'* on the sides *e* of the case; but, if desired, a support formed of side frames of braced crossed legs in X form may be used to support the drawers, in which case the center tray may be fixed rigidly to the tops of the crossed frame-bars, and the trays above and below the center tray fold against it from top and bottom, leaving a space below the lower tray when the drawers are closed

together. It is evident that the drawers, when evenly loaded, balance each other, and they may therefore be easily adjusted in open and closed positions, and by attaching the trays to every alternate crossed joint of the toggle-bars, instead of to each crossed joint, as shown, the drawers may be adjusted farther apart for better access to them, and the drawers may be made deeper, if desired.

In order to avoid swaying corner-ways of the trays when they are adjusted, and to hold them with their fronts and ends vertically in line with each other when extended, I shall in practice connect both inner toggle-bars of opposite pairs to a bolt or bar running the whole length of the trays, either through them or beneath them in suitable bearings, and let the outer toggle-bars of opposite pairs work loosely on these bolts as pivots, the bolts themselves turning in their bearings to permit free working of the toggle-bars.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A slide-drawer chest having the cover *d*, ends *e*, and bottom *q*, the loose trays *a*, and the tray *a'*, made fast to said ends, in combination with the lazy-tongs *c c*, connected together by bars *f f*, and pivoted to the cover and trays, as shown and described, whereby the trays *a* may be folded up to or drawn out from the fixed tray *a'*, as specified.

2. The combination, with the frames *a*, trays *b*, and lazy-tongs *c*, of the rod *g*, having at each end a crank, *h*, with hole *h'*, the bar *i*, having hole *i'*, and pivoted at one end to the crank and at the other to the next tray-frame below it, the spring *j'*, carrying pin *j*, bent at one end, and having an eye or loop, and the pivot-bolt *k*, whereby the extended trays may be locked or unlocked, as described.

3. The combination, with the middle tray, of the case having ends *e* and holes *o*, the band *l'*, attached at *m* to said tray, and extending around the ends of the case, and the catches *n*, pivoted at *n'*, as shown and described.

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Witnesses:

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