

(No Model.)

J. F. ZIMMERMAN.

CHEST FOR TOOLS, &c.

No. 303,783.

Patented Aug. 19, 1884.

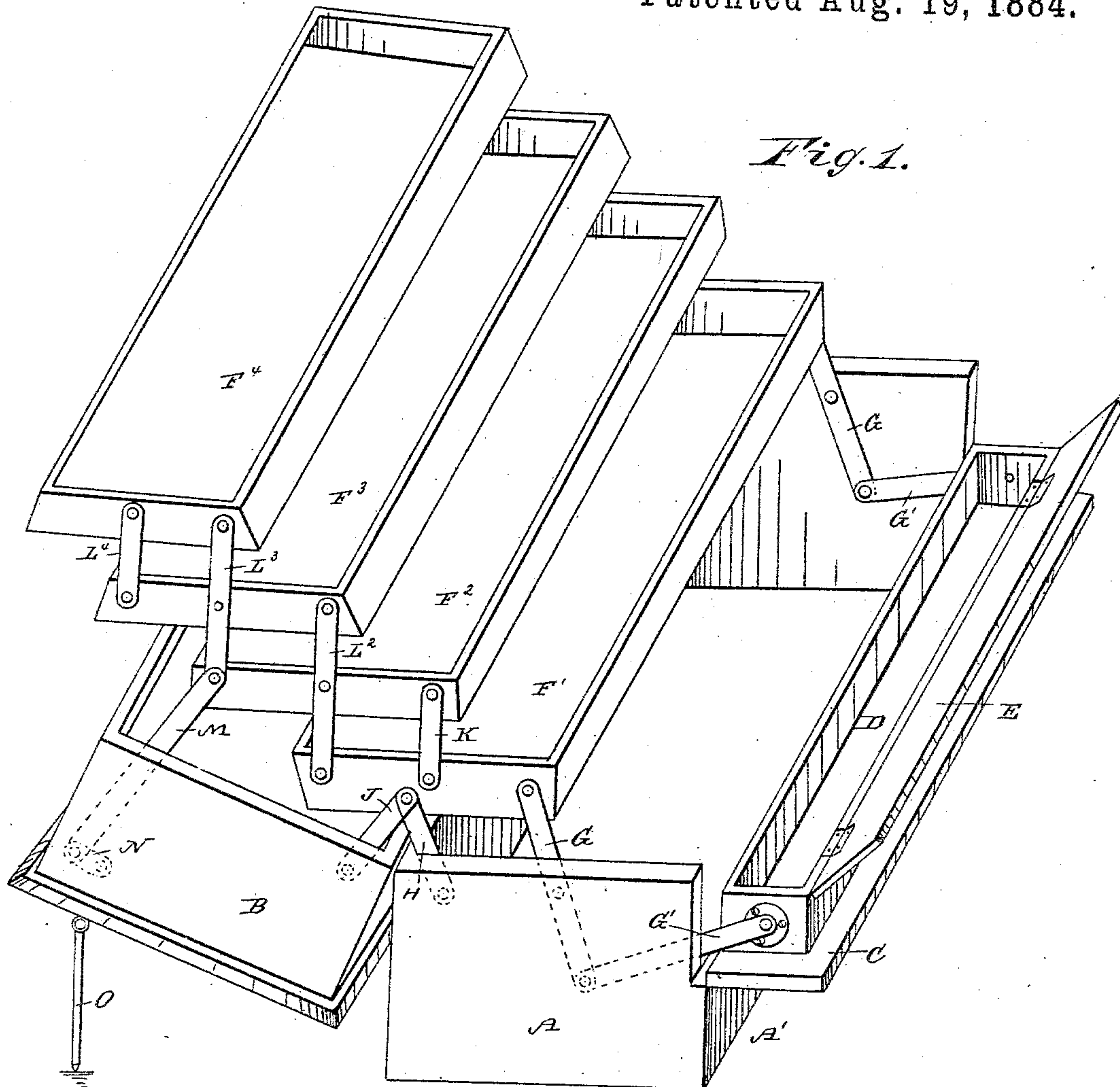
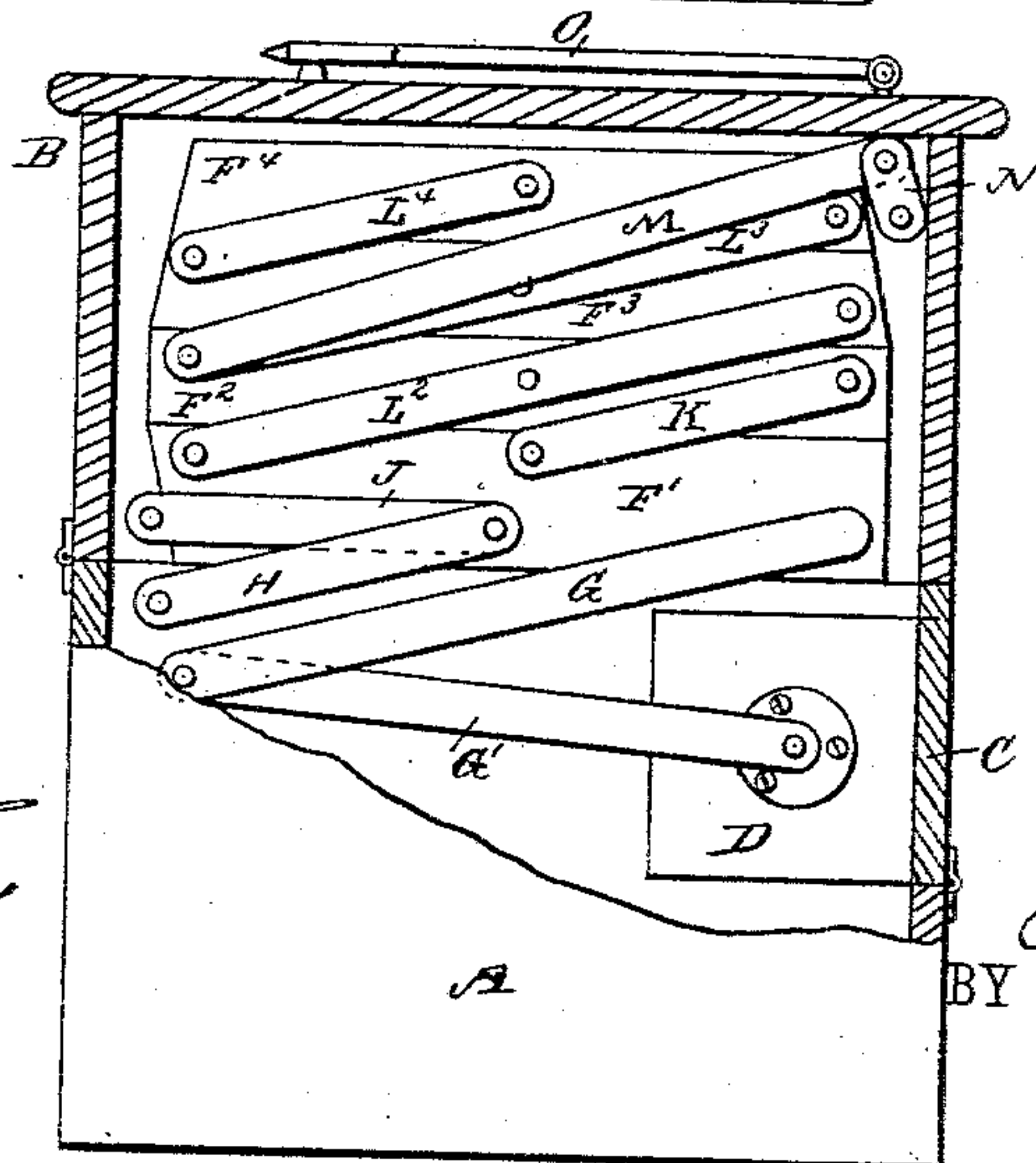


Fig. 2.



WITNESSES:

Theo. G. Hoster
C. Sedgwick

INVENTOR:

J. F. Zimmerman
Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN F. ZIMMERMAN, OF WASHINGTON CENTRE, MISSOURI.

CHEST FOR TOOLS, &c.

SPECIFICATION forming part of Letters Patent No. 303,783, dated August 19, 1884.

Application filed March 12, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOHN F. ZIMMERMAN, of Washington Centre, in the county of Harrison and State of Missouri, have invented a new and Improved Chest for Tools and other Articles, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved chest or box provided with a series of trays for receiving tools or other implements and articles, which trays are so arranged that they are raised automatically by raising the lid of the chest.

The invention consists in the combination, with a chest and its lid, of a series of trays connected with each other and with the chest and its lid in such a manner that when the lid of the chest is swung up and back the trays will be swung up and backward.

The invention further consists in the combination, with the above chest, of a hinged front part, on the back of which a box is formed, which box is connected with the trays in such a manner that it swings out when the trays swing up.

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

Figure 1 is a perspective view of my improved chest, showing it opened; Fig. 2, an end view, parts being broken out and others shown in section.

The box or chest, made in the usual manner, is provided with a hinged lid or cover, B, and the upper part or half, C, of the front A' is hinged in such a manner that it can swing downward and outward.

To the inner surface of the hinged part C a longitudinal box, D, is secured, which box is provided with a cover, E, hinged to the outer or top edge of the box D, as shown, and adapted to swing outward and downward when the part C is swung down. The chest is provided with a series of trays—in the cases shown four—which are marked F', F², F³, and F⁴, and all fit within the box or chest A.

To each end of the bottom tray, F', the upper end of a lever, G, is pivoted at the front edge of the said tray, and the said lever is pivoted at its middle to the inner surface of the end of the chest, and to the lower end of each

lever G one end of a lever, G', is pivoted, the opposite end of which is pivoted to the end of the box D on the part C.

To each end of the tray F' the upper end of a lever, H, is pivoted, the lower end of which is pivoted to the inner surface of the corresponding end of the box in line with the center pivot of the lever G and at the back of the said end of the chest.

On the same pivot with the upper end of each lever H one end of a lever, J, is pivoted, the opposite end of which is pivoted to the inner surface of the corresponding end of the lid B at the back of the end and a short distance from the lower edge. A lever, K, is pivoted to the center of each end of the tray F' and to the front of the corresponding end of the tray F².

To the centers of the ends of the trays F² and F³ levers L² and L³ are pivoted, which have their lower ends pivoted to the rear parts of the ends of the trays F' and F², respectively, and have their upper ends pivoted to the front parts of the ends of the trays F³ and F⁴, respectively. Levers L⁴ are pivoted to the back parts of the ends of the trays F³ and to the centers of the ends of the trays F⁴. A lever, M, is pivoted to the back part of each end of the tray F² or F³, and has its opposite end pivoted to one end of a short link, N, having its opposite end pivoted to the inner surface of the end of the cover at the front and top of the same. A supporting-rod, O, is hinged to the center of the upper surface of the cover at the front edge. When the cover is swung back, the several parts are in the position shown in Fig. 1, the trays being raised and projecting beyond the rear edges of the lower trays. If the lid is swung on the box, its trays are folded down on each other. The part C is swung upward and inward, and the bottom tray is swung on the top of the box D. If the lid is raised and swung, the several parts are automatically brought into the position shown in Fig. 1. The bottom and top trays are slightly narrower than the middle trays, so as to permit them to clear the edges of the box and its lid.

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

1. The combination, with a chest and its hinged lid, of a series of trays held above each

other and connected by levers with each other and with the box and its lid, substantially as herein shown and described.

2. The combination, with a chest and its hinged lid, of a series of trays held above each other and connected by pivoted levers, and also connected by two levers at each end with the box and by two levers at each end with the lid, substantially as herein shown and described.

3. The combination, with a chest, of a series of trays connected by levers with each other and with the chest and lid, and with a hinged part on the front of the chest, a box being formed on the said hinged part of the front of the chest, substantially as herein shown and described.

4. The combination, with a chest and its lid, of the hinged front part, C, on which a

box, D, is formed, a series of trays connected with each other and with the box and lid, and of levers G', connecting the front levers of the lowest trays with the ends of the box D, substantially as herein shown and described.

5. The combination, with the chest A and its cover B, of the trays F', F², F³, and F⁴, of the levers G, H, J, K, L², L³, L⁴, and M, substantially as herein shown and described.

6. The combination, with a chest and its lid, of a series of trays connected by levers with each other and with the chest and lid, and of the supporting-rod O, hinged on the lid, substantially as herein shown and described.

JOHN F. ZIMMERMAN.

Witnesses:

ED. BALDWIN,
E. J. BALDWIN.