(No Model.)

E. R. PALMER.

TRUNK ELEVATOR.

No. 474,145. Patented May 3, 1892.

Fig. 1.

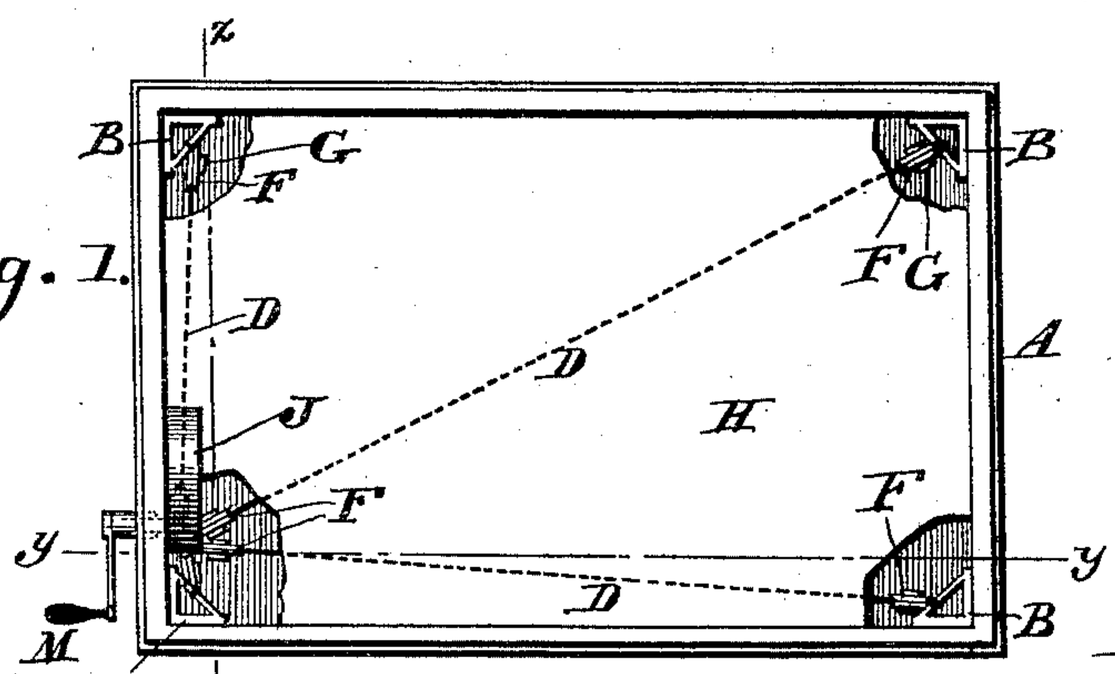

Fig. 4.

Fig. 2.

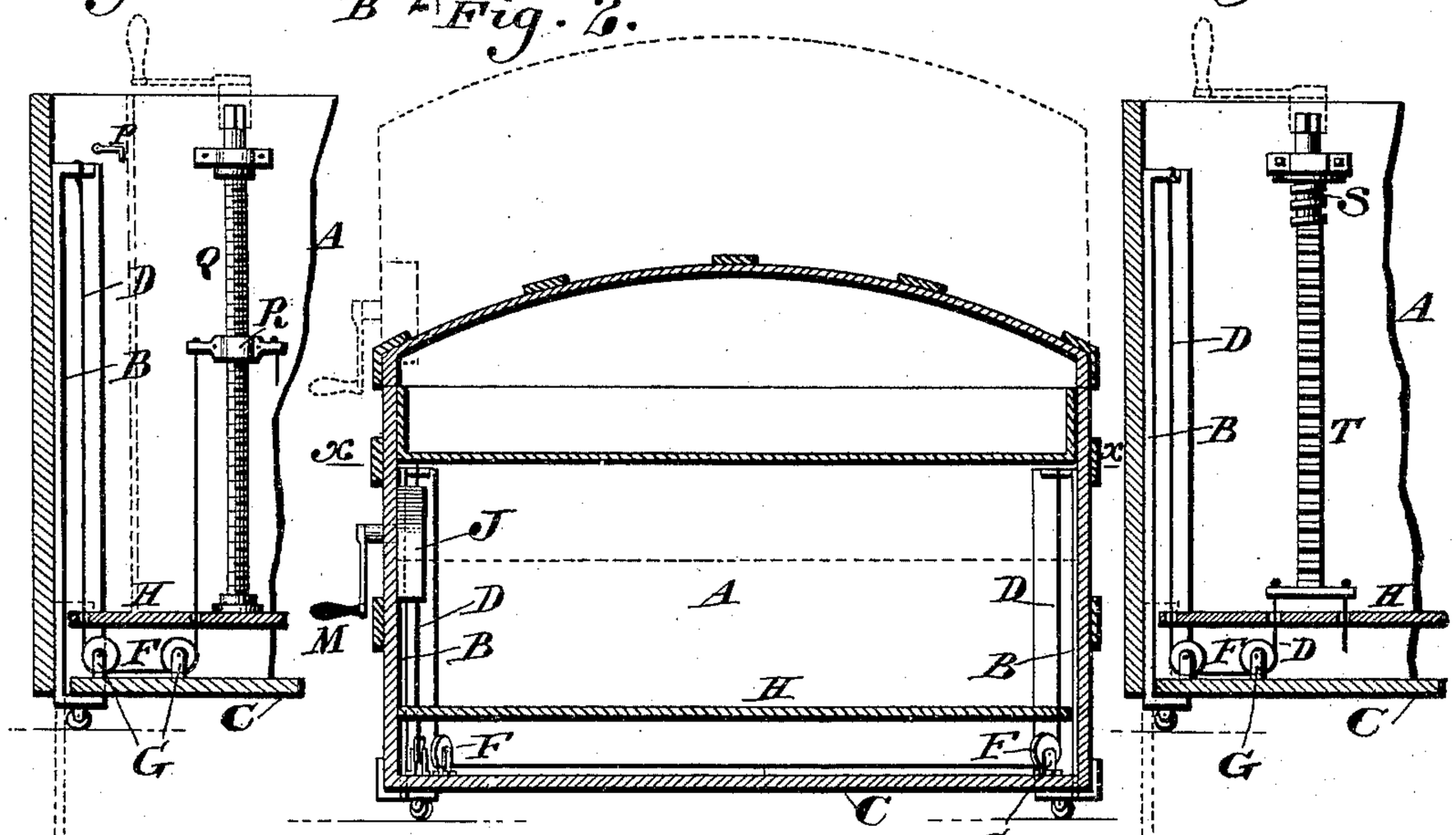

Fig. 5.

Fig. 3.

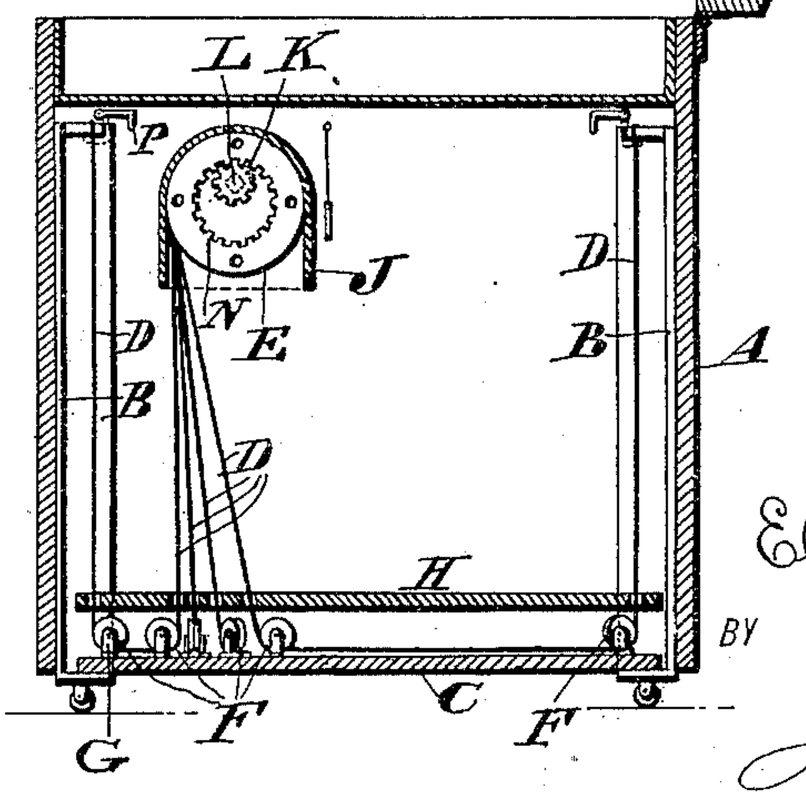

Fig. 6.

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ELIZABETH R. PALMER, OF PHILADELPHIA, PENNSYLVANIA.

TRUNK-ELEVATOR.

SPECIFICATION forming part of Letters Patent No. 474,145, dated May 3, 1892.

Application filed November 30, 1891. Serial No. 413,628. (No model.)

To all whom it may concern:

Be it known that I, ELIZABETH R. PALMER, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Trunk-Elevators, which improvement is fully set forth in the following specification and accompanying drawings.

My invention relates to improvements in trunk-elevators; and it consists of novel means normally secured within a trunk for raising the same above the floor on which it is placed, whereby it may be conveniently in reach for packing.

It further consists of the combination of parts hereinafter set forth.

Figure 1 represents a view, partly broken away, on line *x x* of a device embodying my invention. Fig. 2 represents a vertical section on line *y y*, Fig. 1, the dotted lines showing the trunk in raised position. Fig. 3 represents a section on line *z z*, Fig. 1. Figs. 4 and 5 represent sectional views of portions of modifications of the device.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A designates a trunk, having in each of its four corners a prop or leg B, normally within the said trunk, but adapted to project therefrom through openings in the corners of the bottom C thereof. The said legs or props are guided in their vertical movements in the vertical corners of the trunk and are operated in unison by means of cords D, which are connected at one end with a rotatable drum E and at the other end with the upper ends of said legs. The said cords are passed around the pulleys or wheels F, journaled in ears or lugs G, attached to the bottom C. A false bottom H is placed in the trunk above said wheels F, the cords D passing through openings in the same. The said bottom H serves to shield the wheels F and the horizontal portion of the cords D from contact with the contents of the trunk, and also acts as a guide for the legs B in their vertical movements. The ends of the drum E fit closely within a casing J, so as to be rotated therein by means of the pinion K, which has its shaft L, which is in one end of the trunk, provided with a handle M, said pinion meshing with an internally-toothed wheel N, secured on the end of the drum, whereby the rotation of said pinion rotates the said gear-wheel N and drum E within the casing, and thereby either winding or unwinding the cords D, according to the direction of the rotation of said pinion. By having the mechanism as described all the geared wheels thereof are kept from contact with the contents of the trunk.

To secure the legs B within the trunk during the movements of the latter, catches P are provided, said catches being pivoted to the walls of the trunk and having noses adapted to engage projecting portions of said legs, whereby they are prevented from being lowered or moved downward out of the trunk.

The manner of operating the device is simple and easily understood. When it is desired to raise the trunk for convenience in packing or unpacking the same, the catches are removed from the legs and the pinion K rotated. This causes the legs to move downward and out of the trunk, so that the trunk is raised thereon from the floor or ground.

In Fig. 4 is shown a modification wherein a swiveled screw Q, with a follower R thereon, operates the cords, the follower being guided on the side of the trunk.

In Fig. 5 is shown a worm S and rack T for operating the cords, the said parts being secured to and guided on one side of the trunk.

It will be seen that a device as herein described is simple in character, easily kept in repair, and efficient in operation.

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

1. A trunk-elevator consisting of vertically-movable legs normally located within the trunk, pulleys mounted on lugs on the inner face of the bottom of the trunk, cords connected with the upper ends of said legs, passing around said pulleys, and means, substantially as described, for operating said cords, said parts being combined substantially as set forth.

2. A trunk-elevator consisting of vertically-movable legs normally within the trunk, pulleys mounted on lugs on the inner face of the bottom of the trunk, a false bottom above said pulleys, cords connected to the upper ends of the legs, passing through said false bottom

and around said pulleys, and a rotatable drum on which said cords are wound, said parts being combined substantially as described.

3. A trunk-elevator consisting of vertically-movable legs normally within the trunk, pulleys mounted on lugs on the inner face of the bottom, and a drum on the sides of the trunk, cords on said pulleys and connected with said legs and drum, and catches secured to said trunk and adapted to engage with said legs and prevent their movement downward and out of the trunk, substantially as described.

4. A trunk-elevator having vertically-movable legs normally within the trunk and mechanism connected with the same for lowering said legs, so as to project downward and outside of the trunk, and a false bottom in said trunk, said parts being combined substantially as described.

5. A trunk-elevator having vertically-movable props or legs, a drum with an internally-geared wheel thereon, cords connected with said legs and drum, a rotary pinion having a suitable bearing in the wall of the trunk and engaging said gear-wheel, and a casing inclosing said drum and gearing, said parts being combined substantially as described.

ELIZABETH R. PALMER.

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