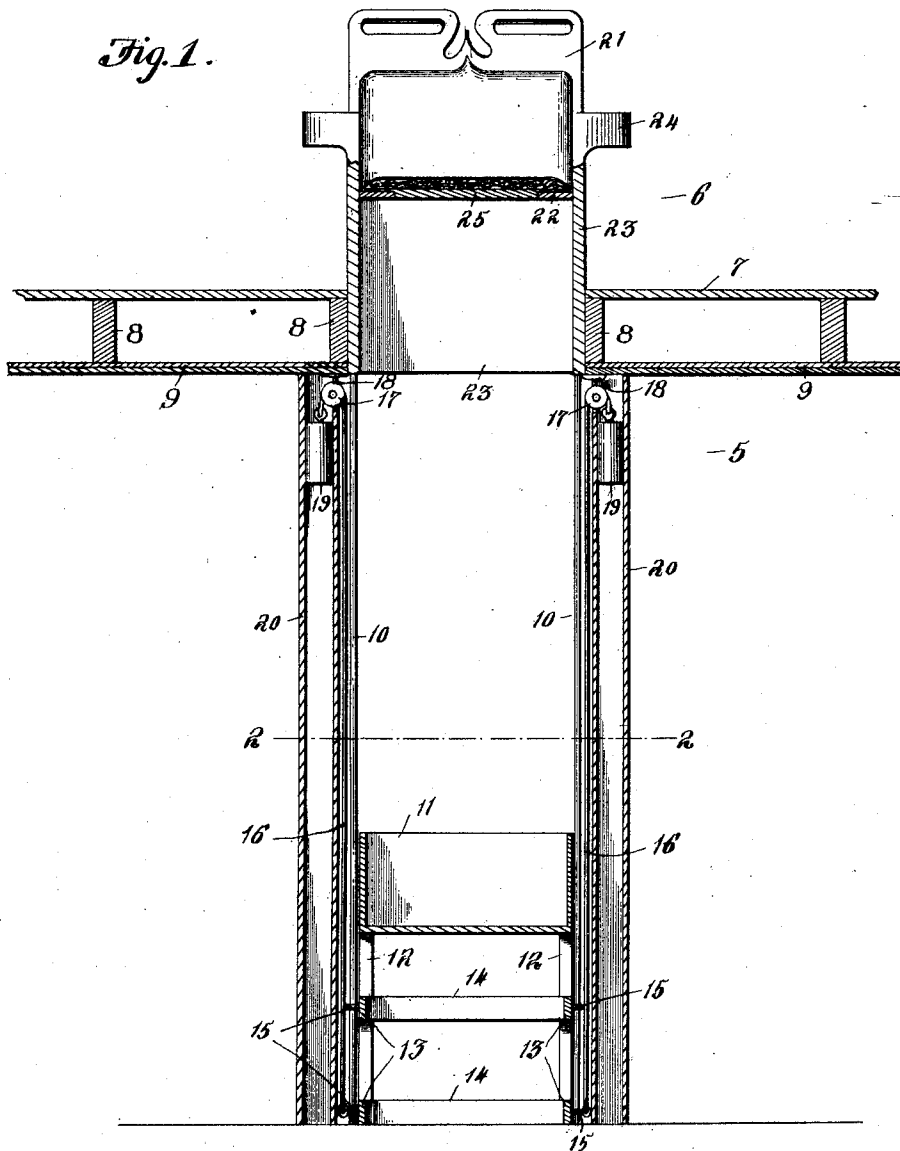


W. A. CRAWFORD-FROST.
 COMBINED LIFT, CHAIR, AND WOOD BOX.
 APPLICATION FILED AUG. 30, 1910.

1,005,608.

Patented Oct. 10, 1911.

2 SHEETS-SHEET 1.



Inventor
 William A. Crawford Frost

Witnesses

Alan T. Garner

A. O. Sanders

By Victor J. Evans

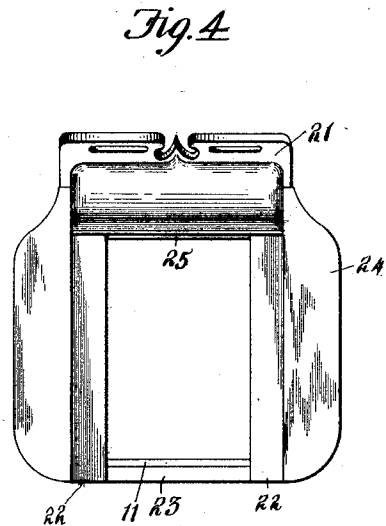
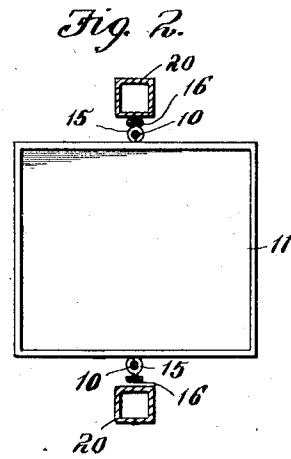
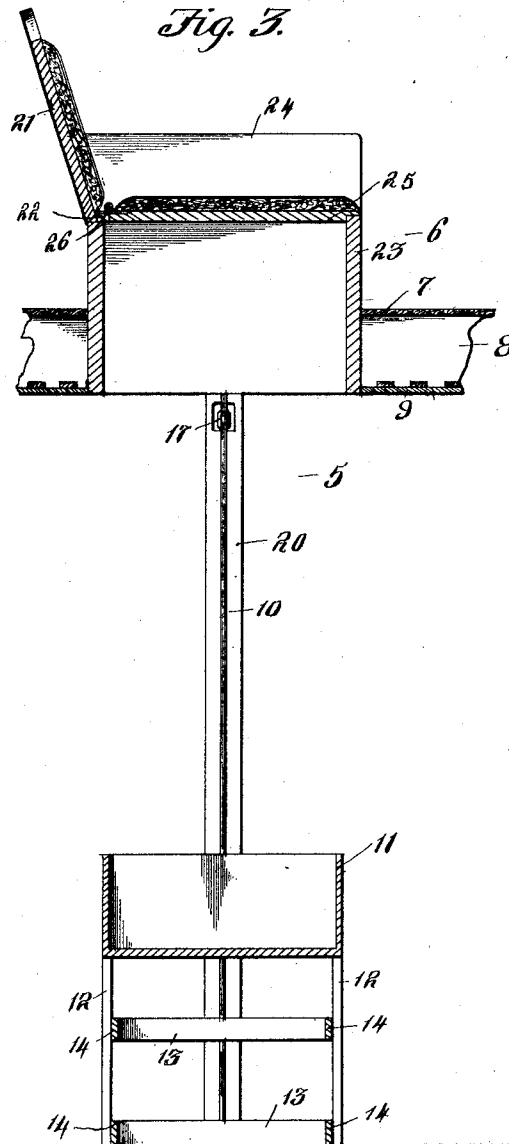
Attorney

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UNITED STATES PATENT OFFICE.

WILLIAM A. CRAWFORD-FROST, OF BALTIMORE, MARYLAND.

COMBINED LIFT, CHAIR, AND WOOD-BOX.

1,005,608.

Specification of Letters Patent.

Patented Oct. 10, 1911.

Application filed August 30, 1910. Serial No. 579,771.

To all whom it may concern:

Be it known that I, WILLIAM A. CRAWFORD-FROST, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented new and useful Improvements in Combined Lifts, Chairs, and Wood-Boxes, of which the following is a specification.

The invention relates to a household apparatus, and more particularly to the class of combined lifts, chairs and wood boxes.

The primary object of the invention is the provision of an apparatus of this character in which wood, logs, and other material may be lifted from the cellar to an upper room of a house and held for use in the frame of a chair-like receiver, thereby obviating the necessity of a person carrying the logs or other material from the cellar to such room.

Another object of the invention is the provision of an apparatus in which wood or other material may be conveyed in a ready and convenient manner from one point to another in a house, thereby relieving the occupant of the latter from this laborious act, the material being conveyed into an accessible depository for future use, thus preventing it from being scattered about the floor of the room, and which depository serves as a chair or article of furniture.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be hereinafter more fully described, illustrated in the accompanying drawings, and pointed out in the claim hereunto appended.

In the drawings: Figure 1 is a vertical sectional view through a building, showing a cellar and upper room with the invention in position relative thereto. Fig. 2 is a sectional view on the line 2—2 of Fig. 1. Fig. 3 is a vertical longitudinal sectional view through the lift and depository. Fig. 4 is a top plan view of the depository with the seat shown in raised position.

Similar reference characters indicate corresponding parts throughout the several views of the drawings.

Referring to the drawings by numerals, 5 designates a cellar space and 6 an upper room space, the same being separated from the said cellar space by a flooring 7 secured upon spaced joists 8, the cellar space 5 being walled by a ceiling 9 in the ordinary man-

ner. Extending from the flooring of the cellar to the ceiling 9 are spaced vertical guide tracks or bars 10, between which is arranged a lift comprising a box 11 open at its top, the box being fixed to the upper end of a frame including vertical corner bars 12 with which are connected side and end braces 13 and 14, the braces being fastened to the said bars 12 in any suitable manner.

Suitably secured to the side braces 13 of the frame are eye members or guide collars 15, the latter slidably embracing the tracks or vertical guide bars 10 for guiding the lift in ascending and descending movements. Suitably secured to the frame at any desirable point thereof and at opposite sides of the same are the lower ends of lift cables 16, the latter being trained over pulleys 17 journaled in suitable brackets 18 fixed to and depending from the ceiling 9 of the cellar space, the remaining ends of the pull cables 16 being connected to hanging weights 19, the latter being traversable in hollow posts or boxings 20 rising from the flooring of the cellar space 5 vertically to the ceiling 9 thereof, spaced from and at opposite sides of the guide bars or tracks 10 of the apparatus.

In the flooring 7 of the room space 6 and the ceiling 9 of the cellar space 5 between adjacent joists 8 is a suitable trap door or opening, the latter communicating directly with the interior of the frame or body of a chair-like structure comprising a back section 21, and seat 22 from which the back section rises, the seat 22 being secured to a box-like base 23, into which is adapted to enter the box 11 of the lift when passed through the opening in the flooring and ceiling between the cellar and room spaces on the ascension of the lift. This seat 22 has rising from opposite sides thereof side arms 24, the latter being joined in any suitable manner to the back section 21 of the chair-like structure.

Provided in the seat 22 is an entrance opening, the latter being closed by a lid or cover 25 which is connected to the seat 22 by means of suitable hinges 26, whereby the lid or cover 25 may be raised for permitting access to the interior of the base 23, whereby material lifted by the lift to within the box 11 thereof may be removed at will. This lid or cover 25 is normally lowered and closes the opening in the seat 22 of the chair-like structure.

The lift is elevated from the cellar space 5 into the room space 6 within the chair-like structure by means of the weights 19, as is clearly obvious, so that when material 5 such as logs or the like are placed within the box 11 of the lift, the same may be conveyed into the base 23 of the chair-like structure for free access by a person on the lifting of the lid or cover 25 from the seat 10 22 of the chair-like structure, thus permitting the logs or the like to be removed from the lift. The lift may be lowered by any suitable means, for instance, by a pull cord, not shown, connected to the frame of the 15 said lift, whereby it may be lowered into the cellar space when required.

What is claimed is:

20 A dumb-waiter comprising a rectangular housing positioned within an opening formed in the floor of a room, the walls of said housing having their lower edges flush with the lower edges of said opening, a hinged closure for said housing, vertically

disposed guide rods extending downwardly from the lower edges of the side walls of 25 said housing and medially thereof, tubular posts in parallel relation to said guide rods, said tubular posts being provided with journaled openings at their upper ends and in their opposed faces, pulleys for said 30 openings, counter-balancing weights within said tubular posts, a frame, a box secured upon said frame, eye members secured on the opposite sides of said frame and adapted for engagement with said guide rods, 35 and flexible connections secured to said frame at opposite sides thereof, said connections being trained over said pulleys and secured to said weights.

In testimony whereof I affix my signature 40 in presence of two witnesses.

WILLIAM A. CRAWFORD-FROST.

Witnesses:

GEORGE W. MANLY,
WM. L. McCLEARY.