

No. 703,038.

Patented June 24, 1902.

E. E. BERRY.
CUSHION STUFFING DEVICE.

(Application filed Nov. 7, 1901.)

(No Model.)

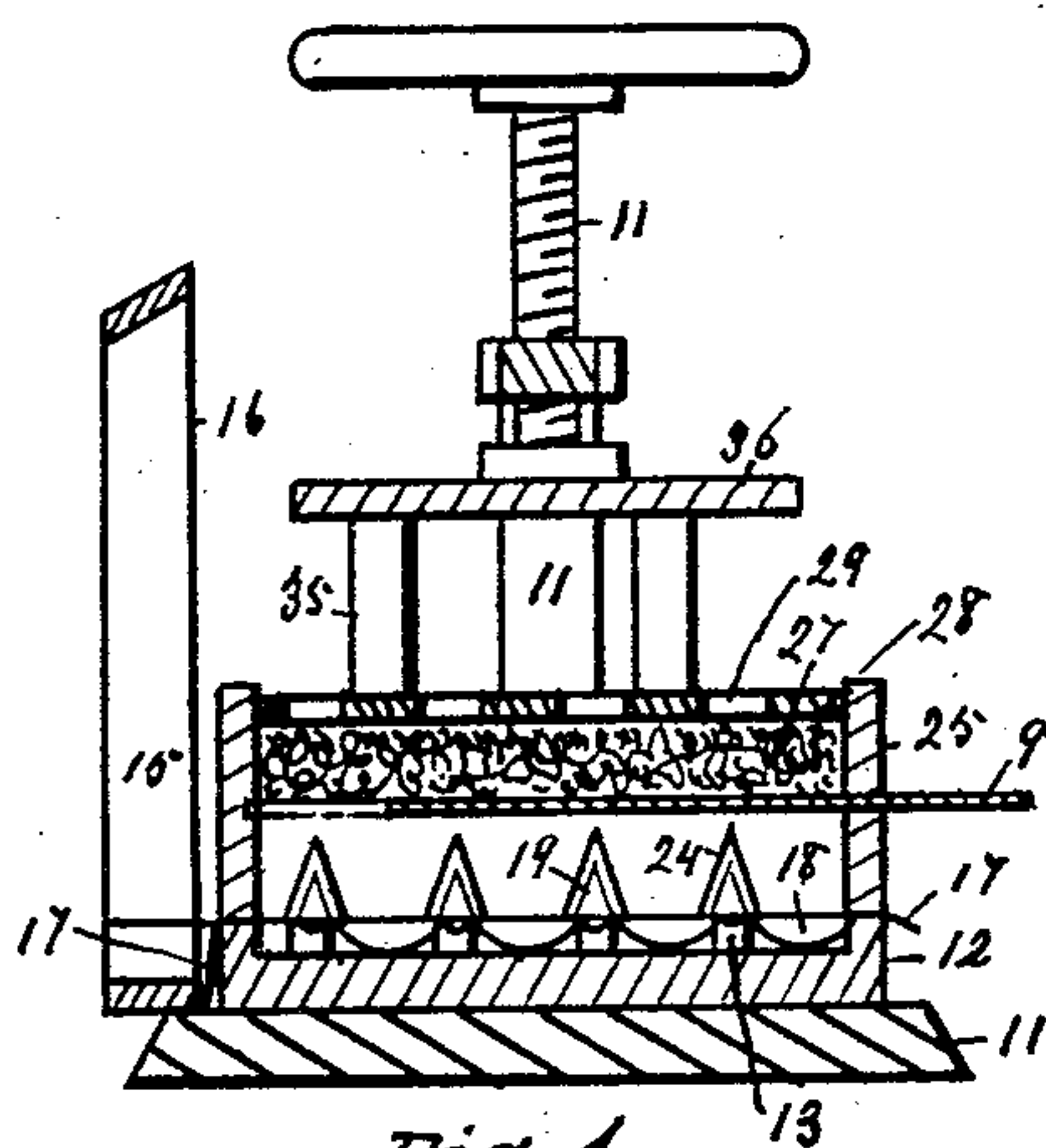


Fig. 1.

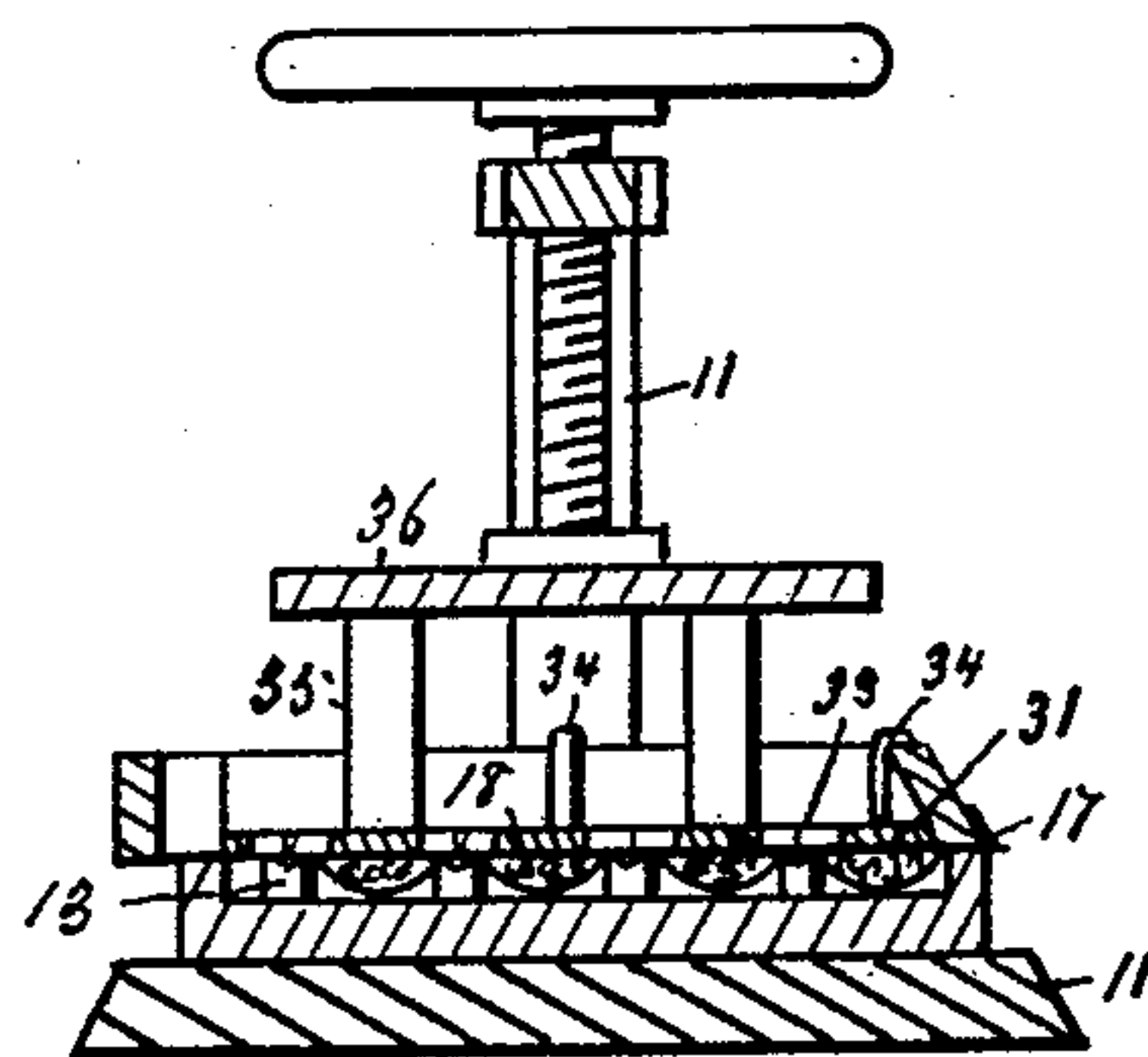


Fig. 2.

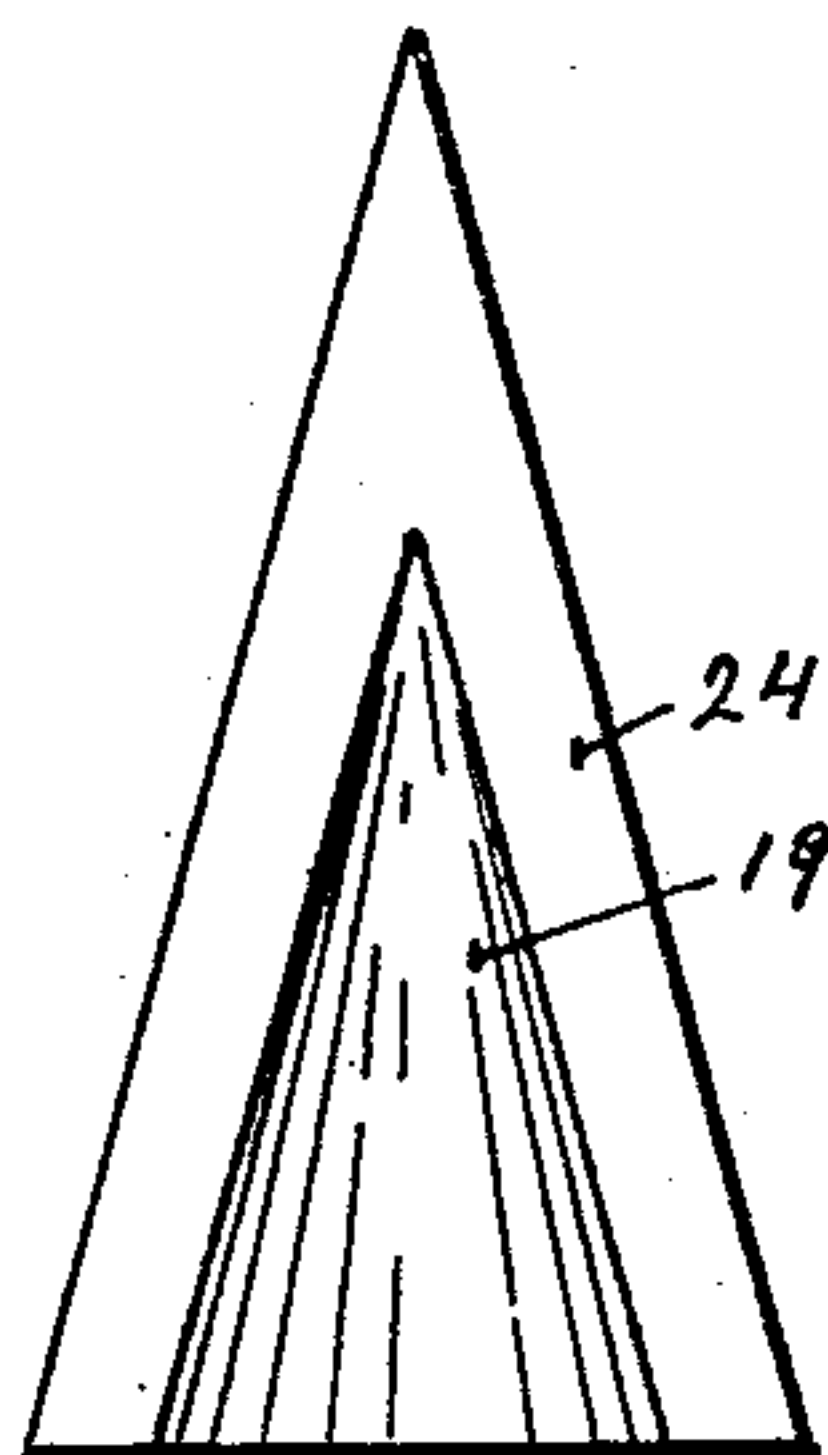


Fig. 4.

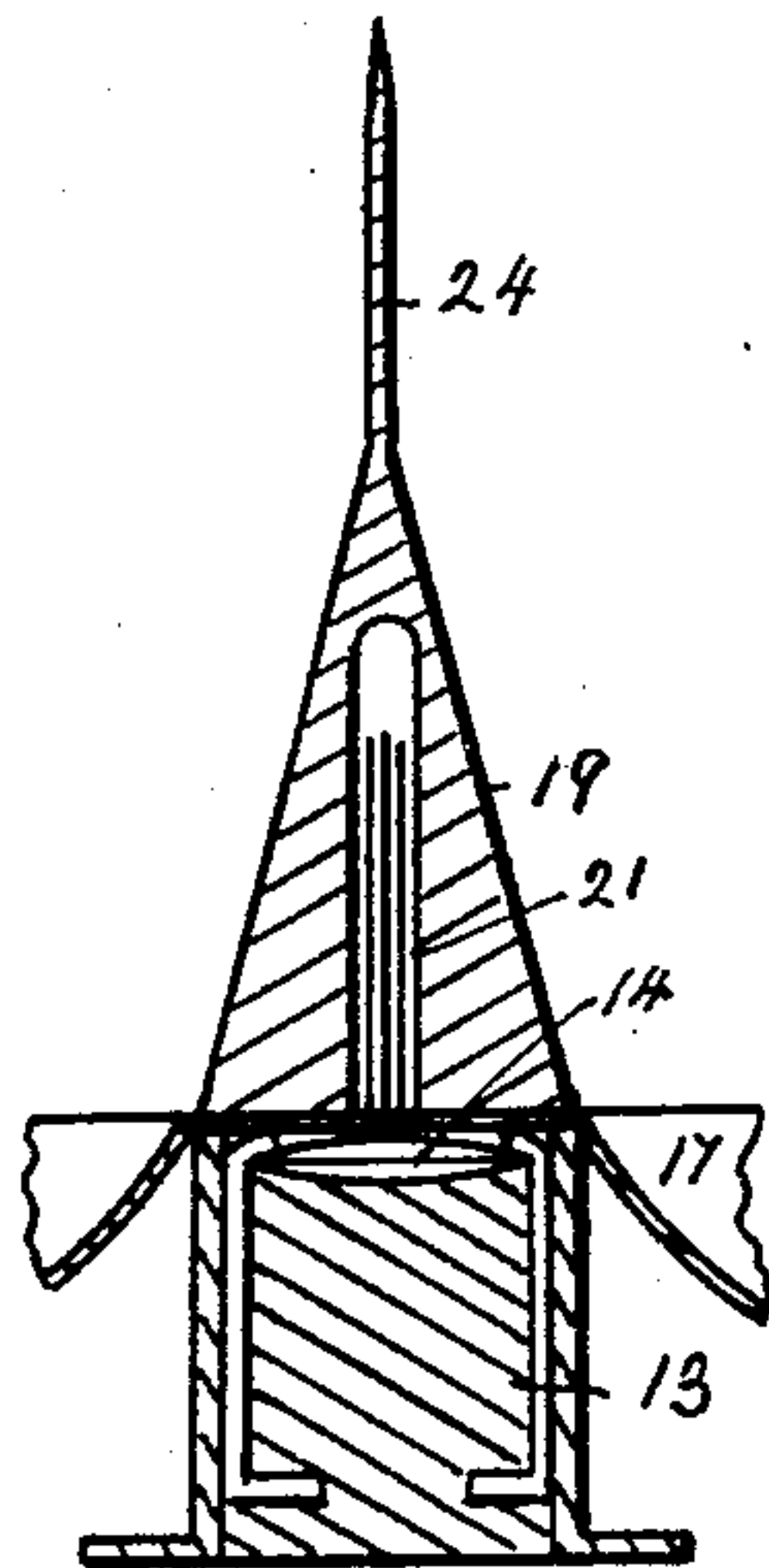


Fig. 6.

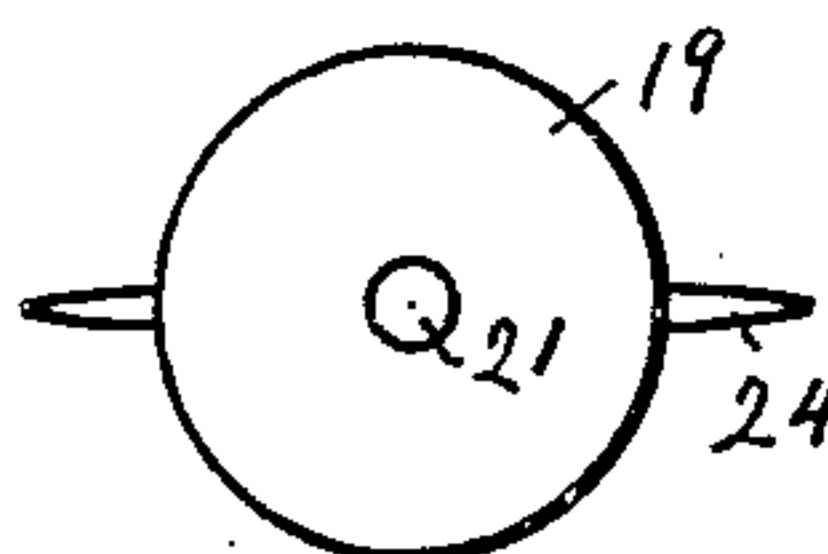


Fig. 5.

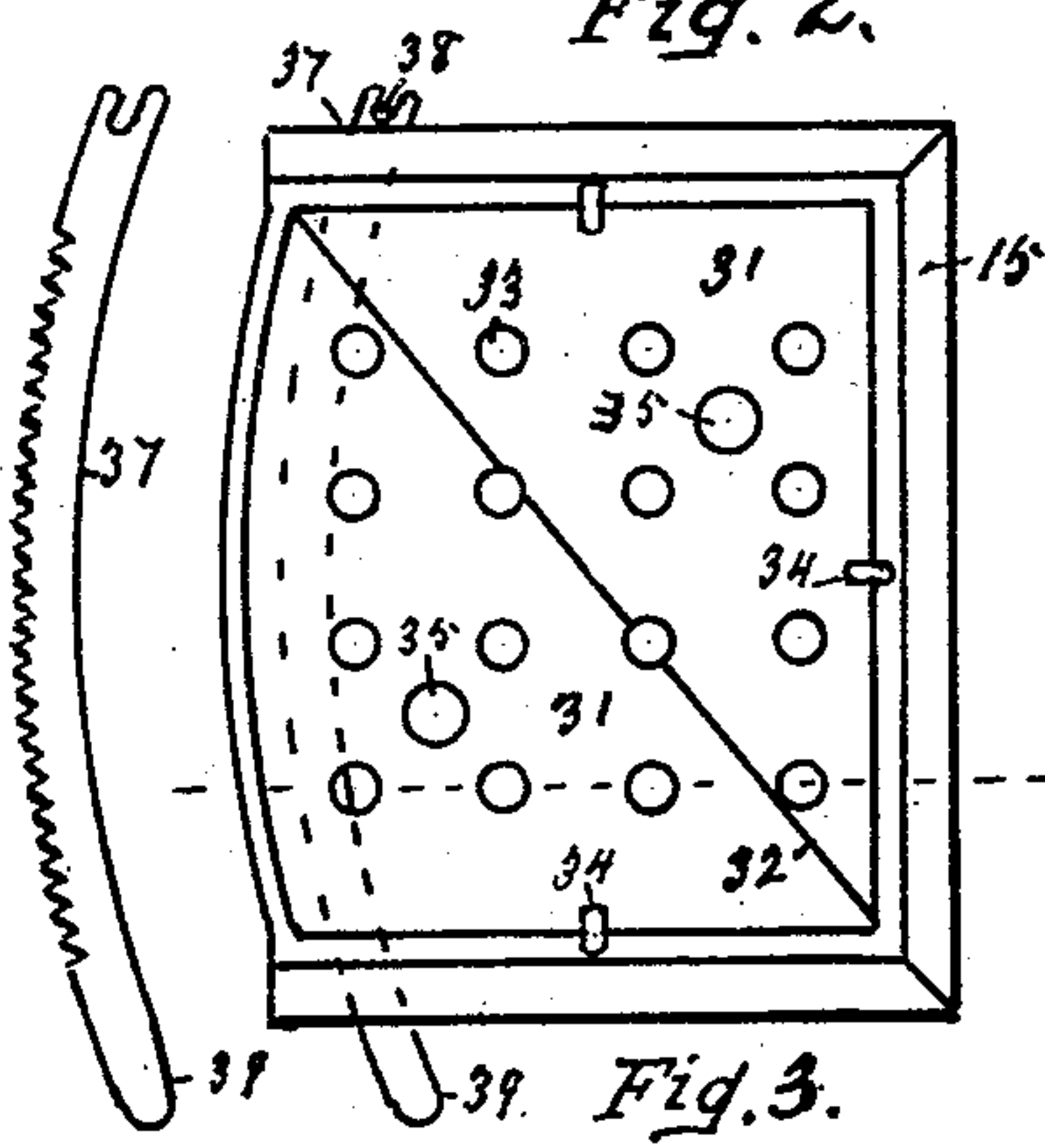


Fig. 3.

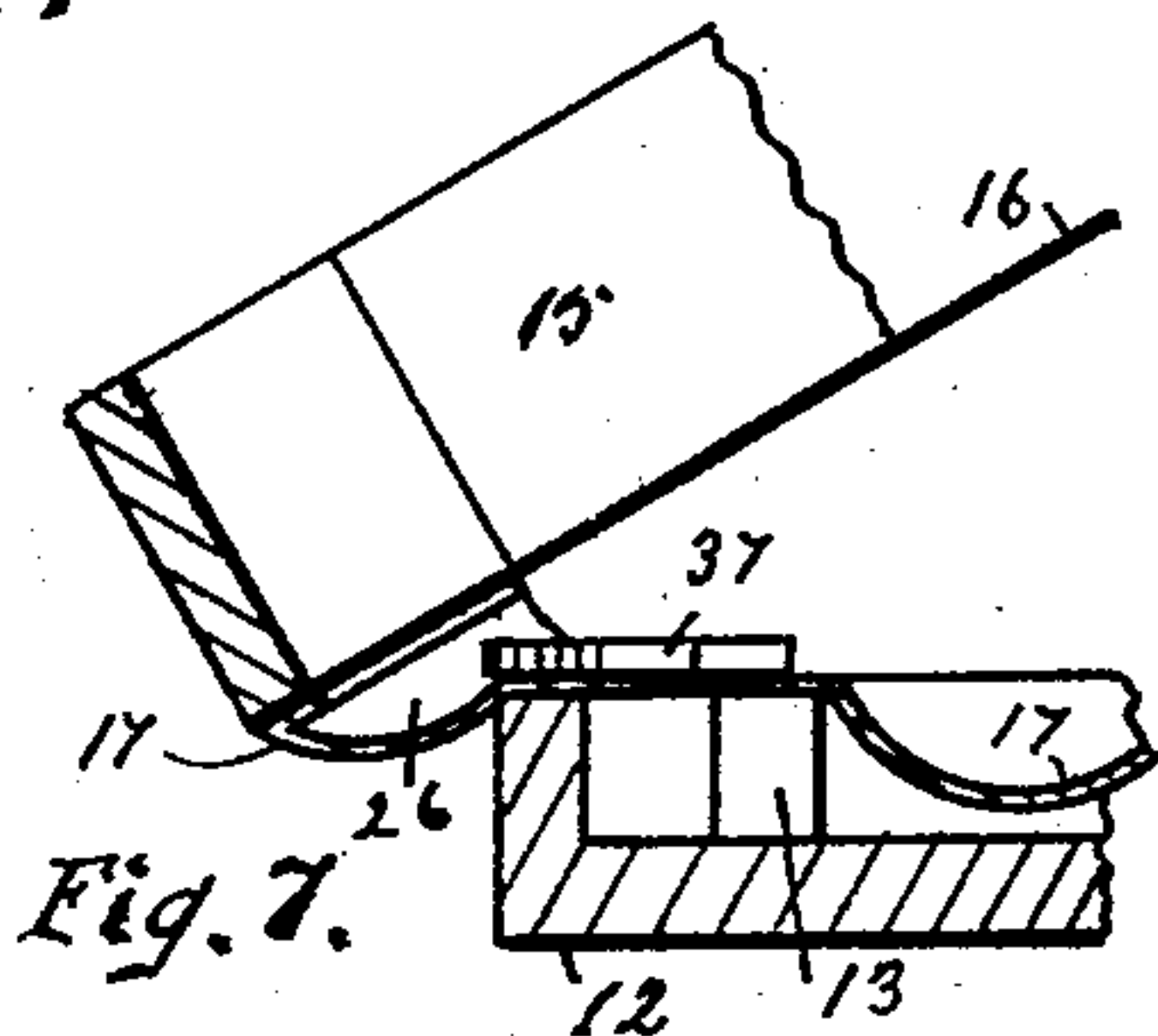


Fig. 7.

WITNESSES.

Karl H. Smith,
Gromshen

INVENTOR.

Elmer E. Berry.
By Robert S. Carr,
Att'y.

UNITED STATES PATENT OFFICE.

ELMER E. BERRY, OF HAMILTON, OHIO.

CUSHION-STUFFING DEVICE.

SPECIFICATION forming part of Letters Patent No. 703,038, dated June 24, 1902.

Application filed November 7, 1901. Serial No. 81,503. (No model.)

To all whom it may concern:

Be it known that I, ELMER E. BERRY, a citizen of the United States, residing at Hamilton, Ohio, have invented a new and useful Improvement in Cushion-Stuffing Devices, of which the following is a specification.

My invention relates to cushion-stuffing devices of the class used for stuffing vehicle and other similar cushions; and the objects of my improvement are to provide means to place the excelsior or other material evenly and simultaneously over the entire surface of the cushion, to attach the front edge of the cover to the frame before it is filled, and to secure the other edges of the covering to the frame while in an inverted position within the press. These objects are attained in the following described manner, as illustrated in the accompanying drawings, in which—

Figures 1 and 2 are sectional elevations on the dotted line *xx* of Fig. 3, showing a cushion in the press in different stages of the stuffing process; Fig. 3, a sectional foil-board in position on the bottom of a cushion; Fig. 4, a front elevation of a spear-head plug; Fig. 5, a bottom view of the same; Fig. 6, a sectional view of Fig. 4 and of the button-chuck, and Figs. 7 and 8 details of construction.

In the drawings, 11 represents an ordinary screw-press, and rectangular box 12, formed with an open top of the proper size to register with the top of the frame of the cushion to be filled, is placed on the base of the press. Button-chucks 13 of the usual construction and each provided with a removable clench-button 14 are properly distributed and secured on the bottom of box 12 and project vertically therefrom. Cushion-frame 15 is preferably formed with upwardly-divergent rear edge and ends and with an outwardly-curved front edge. Canvas 16 is stretched and secured over its top to form a base for the cushion to be formed thereon. The front edge of the cushion top or cover 17 is preferably of leather and secured on the top of the curved front edge of frame 15. Said frame is then placed in a vertical position on its front edge contiguous to box 12, as shown in Fig. 1, and the cover material, plaited in the usual manner to form the cushion-cheeks 18, is properly fitted on the chucks 13, with the clenches or prongs of the buttons 14 inserted upwardly

therethrough. Plugs 19, formed in the shape of a cone, are now placed on the respective chucks 13 and maintained in vertical position thereon by means of the button-prongs being inserted in the axial openings 21, formed in the base of the plugs. A triangular or dart-shaped steel blade 24, formed with sharp point and side edges, is secured in each of said plugs and extends upwardly and outwardly from opposite sides thereof. It terminates on the plane of its base and is adapted to cut an opening in the filling or stuffing material sufficiently large to admit the base of the plug therethrough. Rectangular frame 25 is placed over the cover 17 and on the top of box 12, with which it registers. It is provided with a sliding partition 9, located directly over the top of the plugs 19, and serves to hold the edges of the cover securely in place on box 12. Said partition is then removed from under the excelsior or other filling material 27, which has been evenly distributed in the upper chamber of said frame. Foil-board 28, formed with opening 29 to register with the respective plugs 19, is actuated in a downward direction by means of the screw-press until the plugs are caused to penetrate upwardly therethrough and the filling material is forced against the cover 17 to fill the cheeks 18 formed therein. Frame 25 is now removed, together with the foil-board 28 and also the plugs 19, from the button-prongs in the usual manner, and the cushion-frame 15 is placed in an inverted horizontal position on the top of the box 12, with its ends and the rear edge in registration therewith. A secondary foil-board 31, preferably of steel and separated in two parts on a diagonal line 32 to removably fit within the cushion-frame 15 and formed with openings 33 to register with the respective chucks 13, is placed within said frame in contact with the canvas secured thereon. Said foil-board is now forced in a downward direction by means of the press until the canvas comes in contact with the top of the chucks and the prongs of the buttons are extended upwardly therethrough, so that they may now be clenched in the usual manner. Hooks 34, attached to foil-board 31 and removably engaging with the edges of the cushion-frame, prevent the canvas from being pressed beyond said frame

and torn loose therefrom. Studs or blocks 35 project above the foil-boards 28 and 31 and in contact with the movable plate 36 of the press to provide a space under said plate accessible for the removal of the plugs 19 or for clenching the prongs of the buttons.

In turning the cushion-frame 15 from the vertical position shown in Fig. 1 to the inverted horizontal position shown in Fig. 2 its curved front edge will project beyond the adjacent edge of box 12, disclosing an unfilled vacant space 26 between the front edges of the canvas and the cover. A flat steel lever 37, curved edgewise to correspond with the curvature in the front edge of the cushion-frame and formed with teeth on its convex edge, is removably fulcrumed at one end on a hook or pin 38, secured on the end of the box 12 and extended between the canvas and the cover beyond the opposite end of said box 12, where it terminates in a handle 39. By means of said lever the necessary additional filling material may be forced in the vacant space between the cover and the canvas to properly stuff the front edge of the cushion. This should be effected while the cushion-box is being lowered into a horizontal position, as shown in Fig. 7, after which said lever 37 may be removed by being pulled out lengthwise. While the cushion-frame 15 remains in the press, as shown in Fig. 2, the rear and end edges of the cover may be conveniently tacked thereto in the usual manner. By first securing the front edge of the cover on the top of the front edge of the said frame prevents the plait therein from being extended down the face of the front edge of the frame to mar the even surface of the facing, which may be first

secured thereon. After the cushion is completed, as above described, it is removed from the press, and the seat-springs (not shown) are secured thereunder and within the cushion-frame in the usual manner.

Having fully described my improvement, what I claim as my invention, and desire to secure by Letters Patent of the United States, is—

1. In a cushion-stuffing device, the combination with a button-chuck, of a conical plug formed with an axial opening in its base, and having a dart-shaped metal blade secured therein, said blade being sharpened at its point and side edges and projecting on opposite sides of said plug beyond its base.

2. In a cushion-stuffing device, a foil-board formed in two sections on a diagonal line and with the usual openings to register with the button-chucks, and adapted to cooperate with a cushion-frame formed with outwardly-divergent ends and rear edge.

3. In a cushion-stuffing device, the combination with a rectangular chuck-box, of a lever removably fulcrumed to a pin secured on one end of said box and adapted to cooperate with a cushion-frame formed with a convex edge.

4. A conical-shaped plug containing an axial opening in its base and provided with a dart-shaped blade having a sharp point and side edges, said edges being extended from opposite sides of said plug and terminating on a plane with the base thereof.

ELMER E. BERRY.

Witnesses:

R. S. CARR,
H. L. KUTTER.