No. 787,712. PATENTED APR. 18, 1905.

C. ARNOLD.

SHELF GOODS BOX.

APPLICATION FILED APR. 21, 1904.

3 SHEETS—SHEET 1.

Fig. 1.

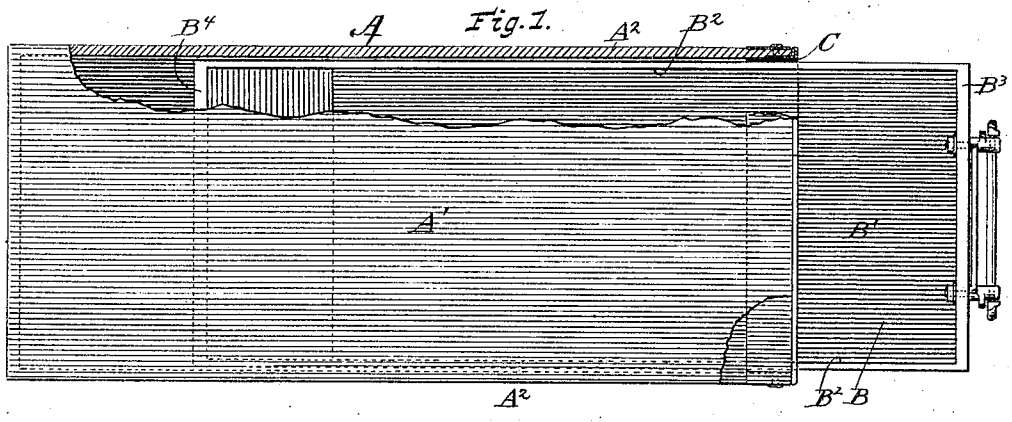


Fig. 2.

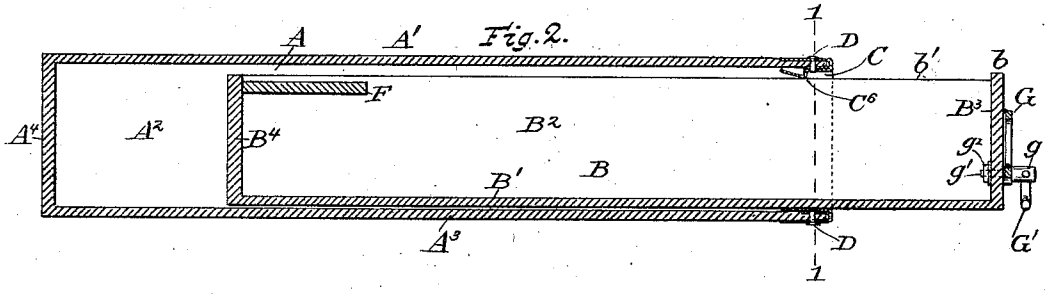


Fig. 3.

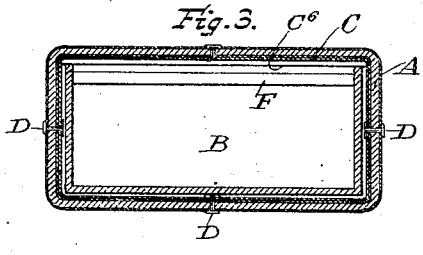


Fig. 4.

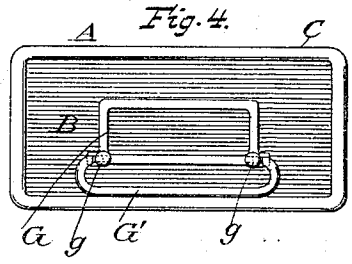


Fig. 6.

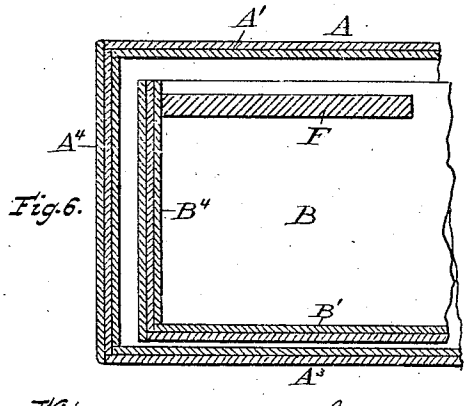
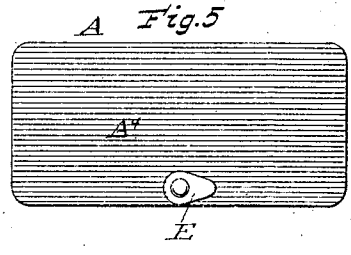


Fig. 5.



Witnesses

Charles Drexler

Philip Loeper.

Collins Arnold,

Inventor.

by Alex. Delbridge

Attorney.

PHOTO-LITHOGRAPHED BY SACHETT & WILHELMS LITHO. & PTG. CO. NEW YORK.

No. 787,712. PATENTED APR. 18, 1905.

C. ARNOLD.

SHELF GOODS BOX.

APPLICATION FILED APR. 21, 1904.

3 SHEETS—SHEET 2.

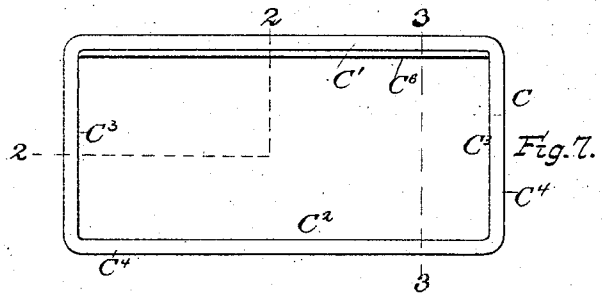


Fig. 7.

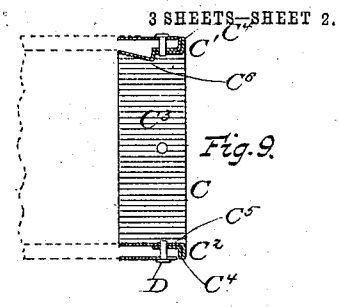


Fig. 9.

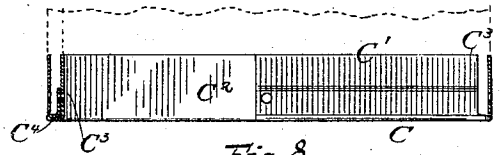


Fig. 8.

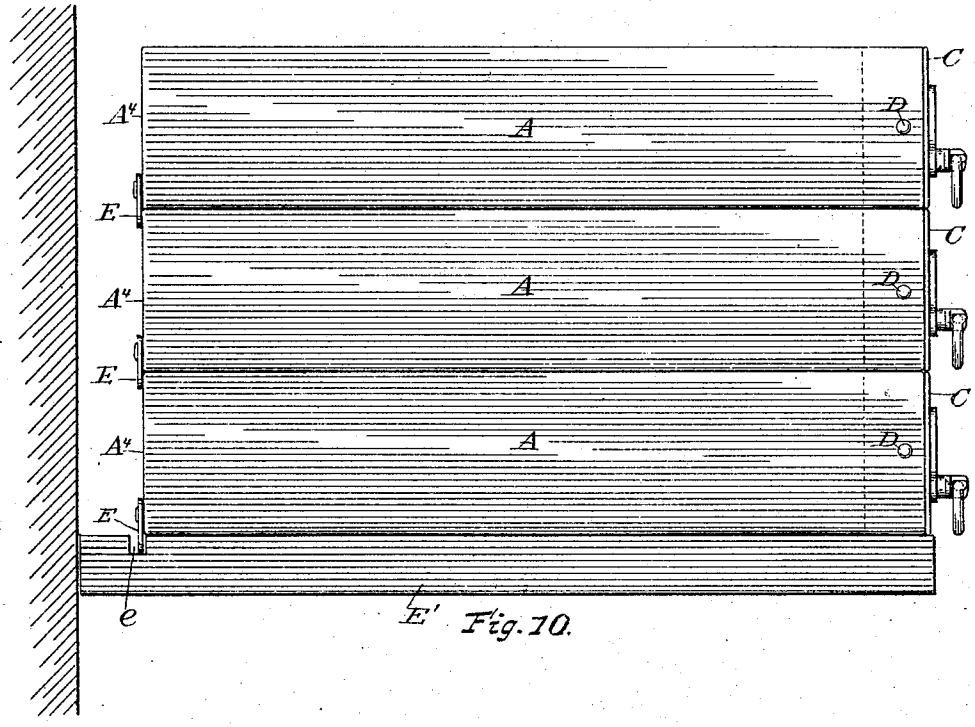


Fig. 10.

Witnesses.

Charles Breckenridge

Philip J. Lofgren.

Collins Arnold,
Inventor.

by Alex. Belkin

Attorney.

PHOTO LITHOGRAPHED BY SACHETT & WILHELMS LITHO. & PTG. CO. NEW YORK.

No. 787,712. PATENTED APR. 18, 1905.

C. ARNOLD.

SHELF GOODS BOX.

APPLICATION FILED APR. 21, 1904.

3 SHEETS—SHEET 3.

Fig. 11.

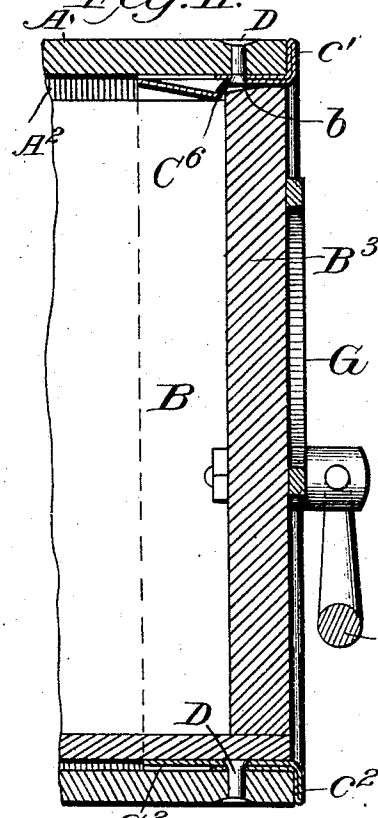


Fig. 13.

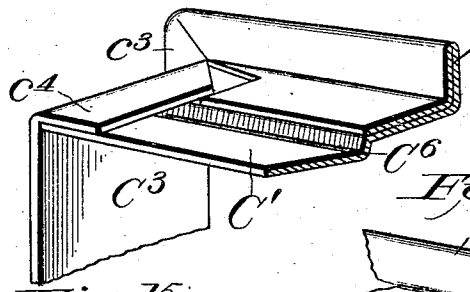


Fig. 14.

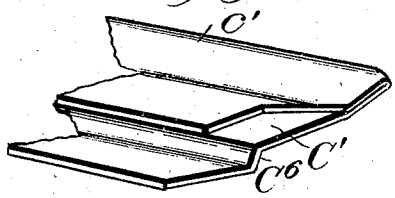


Fig. 15.

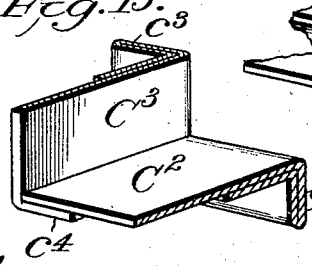


Fig. 16.

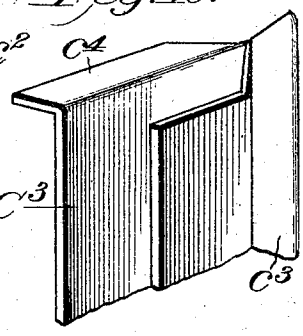
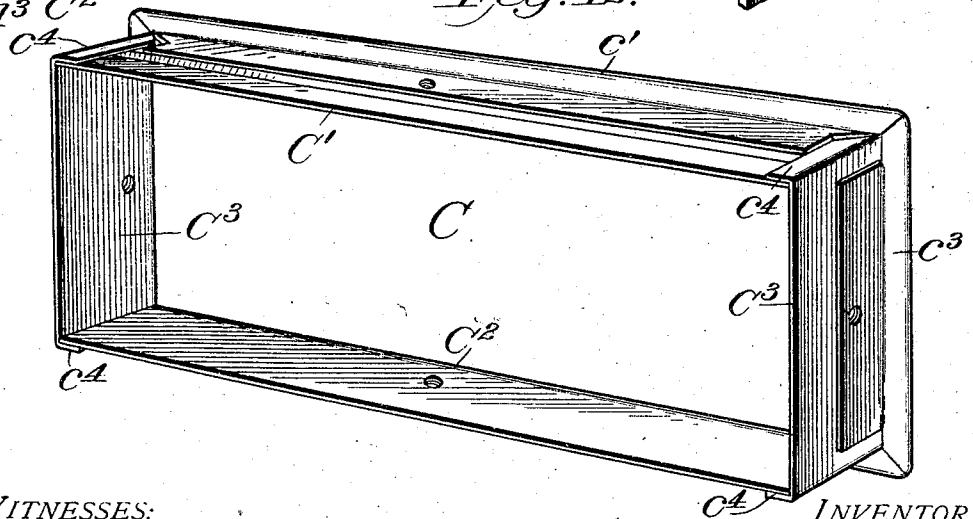


Fig. 12.



WITNESSES:

C. W. Walker.

James R. Mansfield.

INVENTOR

Collins Arnold.

BY

Alexander & Dowell

Attorney

PHOTO-LITHOGRAPHED BY SACHETT & WILHELMS LITHO. & PTG. CO. NEW YORK.

No. 787,712. Patented April 18, 1905.

UNITED STATES PATENT OFFICE.

COLLINS ARNOLD, OF ALBANY, NEW YORK.

SHELF-GOODS BOX.

SPECIFICATION forming part of Letters Patent No. 787,712, dated April 18, 1905.

Application filed April 21, 1904. Serial No. 204,298.

To all whom it may concern:

Be it known that I, COLLINS ARNOLD, a citizen of the United States, and a resident of Albany, in the county of Albany and State of New York, have invented new and useful Improvements in Shelf-Goods Boxes, of which the following is a specification.

My invention relates to a portable shelf-box or goods-case for use on shelves of stores, having an interior drawer to contain articles of merchandise, &c. Its object is to produce a practically unbreakable, very strong, and durable shelf-goods box which will be light, practically dust-proof, and always present a neat appearance. A series of these boxes can be piled one upon the other and any drawer can be withdrawn and replaced without disturbing the other boxes. The boxes have no removable covers and but one open end, which is closed by the drawer-head, and one or more drawers may be fitted in a single covering or box, if desired.

The invention consists in the novel construction of the box and novel arrangements of parts therein, as hereinafter described, and set forth in the claims, and will be readily understood from the following description, when taken in connection with the accompanying drawings, in which—

Figure 1 is plan view, partly in section, of a shelf-box embodying my invention. Fig. 2 is a longitudinal section through Fig. 1. Fig. 3 is a section on line 1 1 in Fig. 2. Fig. 4 is a front end view of the box, and Fig. 5 is a rear end view thereof. Fig. 6 is an enlarged detail section illustrating the preferred construction of the walls of the casing and drawer for large-sized boxes. Fig. 7 is a front end view of the throat-piece detached. Fig. 8 is a top view of the throat-piece, partly in section, on line 2 2 in Fig. 7. Fig. 9 is a transverse section on line 3 3, Fig. 7. Fig. 10 shows a stack of shelf-boxes and the means for keeping the same in position on a shelf and on each other. Fig. 11 is an enlarged detail vertical section through the front end of shelf-box with drawer closed. Fig. 12 is an enlarged perspective view of the throat-piece detached. Figs. 13, 14, 15, and 16 are enlarged detail views of parts of the throat-piece.

In the drawings, A represents the casing of my shelf-box, and B the drawer thereof. The top A′, sides A^2 A^2, bottom A^3, and rear end A^4 of the casing A are made of any suitable material, such as strawboard, wood or veneer, buckram, or combinations thereof, and a metal throat-piece C surrounds the open front end of the casing.

Small casings may be made of a single thickness of material, while large casings are preferably made of two or more thicknesses of material securely cemented together. In Fig. 6 the top A′ and bottom A^3 are shown as formed of two thicknesses of material, while the rear end A^4 is shown as made up of three thicknesses.

The metal throat-piece C is made of any suitable metal, preferably of tin-plate. Its top part C′, bottom part C^2, and two end parts C^3 C^3 each consists of a single piece of metal bent longitudinally upon itself, as shown in Figs. 13, 14, and 15, to strengthen said parts, and the extremities of the end parts C^3 are bent inward, as at c^4, to lap over the ends of parts C′ C^2 at the corners of the throat-piece, as shown, and are securely fastened thereto, as by solder. The bending of the metal in parts C′ C^2 C^3 stiffens all portions of the throat-piece and produces a double thickness of metal at the top, sides, and bottom of the throat-piece. The outer double edge of each part C′ C^2 C^3 is also bent outward at right angles, so as to form ribs c' c^2 c^3 at right angles to the main body of the throat-piece, against which ribs the forward ends of the top, sides, and bottom of the casing abut, as shown in Figs. 8, 9, and 11. The top part C′ of the throat-piece is also formed with an internal bend or shoulder C^6, which prevents entrance of dust into the box when the drawer B is closed and acts as a stop to prevent the drawer being pushed too far inward. The ribs c' c^2 c^3 are beveled at the ends of the parts, so as to form neat miter-joints at the corners of the throat-piece, as shown in Figs. 4, 7, 12, and 13, and give the appearance of a continuous metal plate or facing around the mouth of the casing. This metal throat-piece is inserted in the front open end of the casing with its inner main portion closely contacting the in-

ner surfaces of the top, bottom, and side walls of the casing and with its outer flange or ribs c' c^2 c^3 closely fitting against the end edges of said walls, as shown in Figs. 2 and 11.

The throat-piece is secured to the walls of the casing by suitable means, such as rivets D. In order to hold the boxes in position on the shelves, a button E may be pivoted to the rear end of the casing near its lower side, and the button E on the lowest box can be turned down into a groove e, provided in the shelf E', on which the boxes are placed and will prevent the box being moved forward or backward on the shelf, while allowing the box to be moved laterally on the shelf. The button E can be turned so as to lie wholly above the lower surface of the box, if desired. When the boxes are placed one above the other, as in Fig. 10, the button E of the superposed boxes can be turned down to engage the rear end of the subjacent box, and thus all the boxes will be held against forward longitudinal movement, so that it is not necessary to hold the casings by hand when removing the drawers.

The drawer B of the box may have its walls formed of one or more thicknesses of strawboard, veneer, or buckram, or combinations thereof, like the casing. In Fig. 6 the bottom B' is shown formed of two thicknesses and the end B^4 of three thicknesses. The front end piece B^3 of the drawer is of greater depth or height than the interior depth or height of the case, so that the upper margin b of piece B^3 is adapted to abut against the shoulder C^6 of the throat-piece C when the drawer is fully closed and form a dust-proof joint therewith. This drawer is provided at rear with a transverse guard or device F to prevent articles in the drawer rising at its rear end and obstructing the replacing of the drawer in the casing. This guard may be formed of any suitable material.

Secured to the outer end piece B^3 of the drawer is a label-holder G (see Figs. 2 and 4) and a drop-handle G', pivoted to pins g, whose stems g' pass through openings in the lower corners of the label-holder G and through the front end of the drawer and are secured in place by any suitable means, as nuts g^2.

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

1. In a shelf-box, the combination of a casing open at its front end, and a throat-piece fitted around the open end of the casing and reinforcing the same; with a drawer slidably fitted within said casing, substantially as described.

2. In a shelf-box, the combination of a casing open at front, and a reinforcing metallic throat-piece secured to the front end of the casing around the opening therein, and having a dust-guard; with a drawer slidably fitted within said casing, substantially as described.

3. In a shelf-box comprising a casing having an open front end, a metallic throat-piece fitted to and around the opening of the casing having a dust-guard; and a drawer slidably fitted in the casing and having a projecting front end adapted to engage the dust-guard, substantially as described.

4. In a shelf-box, the combination of a casing open at its front end and having its walls formed of layers of light material, and a metallic flanged throat-piece secured to the front end of the box around the opening therein; with a drawer having its walls formed of layers of light material, and slidably fitted in the casing, substantially as described.

5. In a shelf-box, the combination of the casing having an open front end and imperforate top, bottom, side and rear end walls, and a metallic throat-piece fitted to and around the opening in the casing and having a depending dust-guard on its upper part; with a drawer slidably fitted in the casing and having an upwardly-projecting front end adapted to engage the dust-guard, for the purpose and substantially as described.

6. In combination, a casing having an open end and a throat-piece surrounding the edges of the casing at the open end thereof, said throat-piece consisting of strips of metal each bent upon itself to reinforce the front edges of the case, substantially as described.

7. In combination, an open-ended casing and a throat-piece surrounding the edges of the casing at its open end, said throat-piece having portions forming a lining for the front and inner edges of the case, and other portions covering the outer edge of the case.

8. A shelf-box comprising a casing having an open front end, a throat-piece fitted to and around the open end of the casing, a drawer fitted in the casing, and a device attached to the rear end of the casing to prevent longitudinal displacement thereof as the drawer is inserted or removed, substantially as described.

9. In combination, a series of superimposed shelf-boxes, a drawer in each box, and a device attached to the rear end of each box whereby the lowermost box may be engaged with the shelf or support, and each upper box may be engaged with the next lower box, so as to prevent longitudinal displacement of the boxes as the drawers are withdrawn, substantially as described.

COLLINS ARNOLD.

Witnesses:
CHARLES SELKIRK,
A. SELKIRK.