A. E. BLACKMAN.

SHEET METAL BOX.

APPLICATION FILED JULY 22, 1909.

963,352. Patented July 5, 1910.

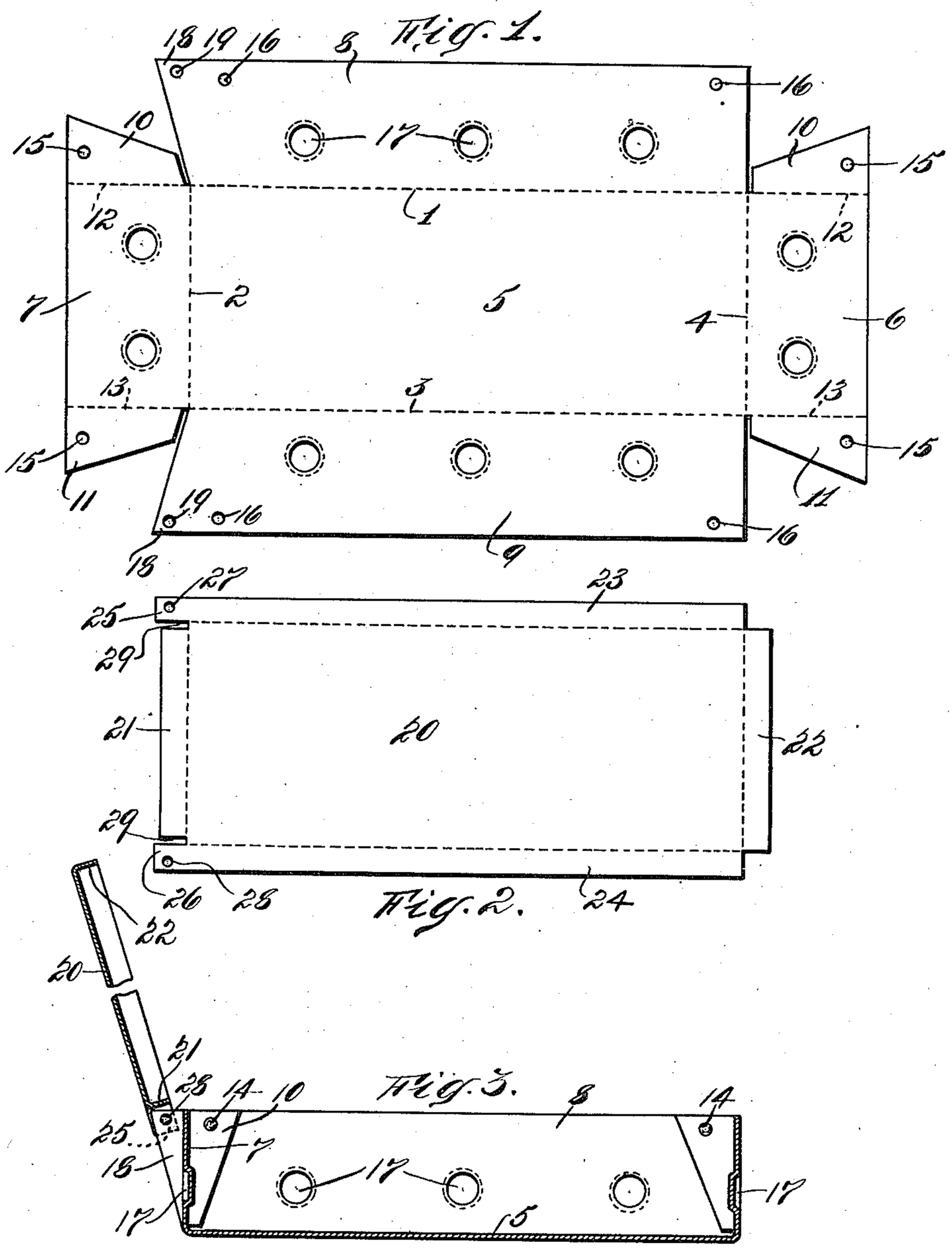


Fig. 1.




Fig. 2.




Fig. 3.

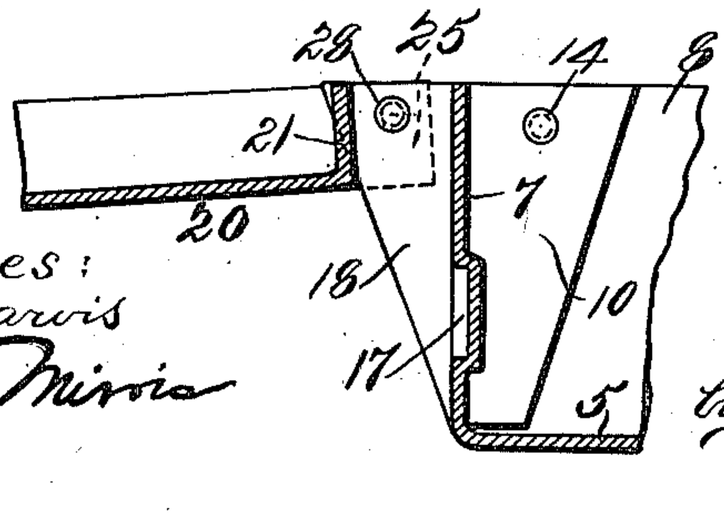


Fig. 4.

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# UNITED STATES PATENT OFFICE.

ALBERT E. BLACKMAN, OF MOUNT VERNON, NEW YORK.

## SHEET-METAL BOX.

963,352. Specification of Letters Patent. Patented July 5, 1910.

Application filed July 22, 1909. Serial No. 508,890.

*To all whom it may concern:*

Be it known that I, ALBERT E. BLACKMAN, a citizen of the United States, residing at Mount Vernon, New York, have invented certain new and useful Improvements in Sheet-Metal Boxes, of which the following is a clear, full, and exact description.

My invention relates to a box made out of sheet metal, and my object is to simplify the construction of the same.

In the drawings which show the preferred embodiment of my invention, Figure 1 is a plan view of the blank of the box before being folded up; Fig. 2 is a bottom plan view of the blank for the cover; Fig. 3 is a central longitudinal section of the cover and box after being folded up and fastened together; and Fig. 4 is an enlarged detail.

In metal boxes for use as switch boxes or cut-out boxes, cheapness of construction is a material factor, and one of the comparatively expensive parts of the cost of assembling such a box is the pivot connection between the cover and the main body of the box. By my construction I have dispensed with the necessity of any separate pivot connections such as are usually employed, thereby reducing the cost of the box, and have attained other advantages. The blank shown in Fig. 1 is supposed to be folded up on the dotted lines 1, 2, 3 and 4 to form a bottom 5, with end portions 6 and 7 and side portions 8 and 9. The end portions have wings 10, 11, which are folded inwardly on the dotted lines 12 and 13, which may extend inside the side portions as shown in Fig. 3 if desired, and may be fastened to the sides by rivets 14 passed through the holes 15 and 16. 17 represents partially punched-out portions of the box to make so-called "knock-out" openings if desired. The sides 8 and 9 are provided with integral portions 18 which extend beyond the end portions 6 and 7, when the box is folded up into shape as shown in Fig. 3, and each of them is provided with a hole 19 to form a pivot for the cover, as hereafter explained.

The cover 20 shown in Fig. 2 is folded up on the dotted lines so as to inclose the box when turned down upon the same by the end portions 21, 22 and side portions 23, 24. The side portions 23, 24 of the cover also have integral lugs or extensions 25, 26, perforated at 27, 28. The lugs 25, 26 are placed outside of the box, as indicated by dotted lines in Fig. 3 and also in Fig. 4, with the end portion 21 of the cover inside of the extensions 18 and rivets 28 through the holes 19 and 25 form a pivot between the cover and the main portion of the box. The cover may be swung down to completely inclose the box.

This construction makes an extremely simple and cheap device.

As the extensions 18, when the box is assembled, inclose the end portion 21 of the cover, the cover when it is swung open to the extent shown in Fig. 4, will cause the shoulders 29 to abut against the end of the extensions 18, as shown in Fig. 4, and form a stop for the cover. The inside width of the cover, when folded up, is obviously such that the portions 23, 24 stand outside of the side walls 8 and 9 of the main portion of the body. It is preferable to have the end portions 21, 22 of the cover also inclose the end walls 6 and 7 of the box.

I do not limit myself to the specific construction shown in the drawings, as many changes may be made without departing from the spirit of my invention as claimed.

What I claim is:

A sheet metal box composed of a single sheet of metal folded up on four sides to form the walls of the box, and provided with integral portions of each side extending beyond the adjacent wall to form a support for a pivotal connection, a cover for the box formed of a single blank of sheet metal having its edges folded to fit the box and provided at opposite sides with integral extensions outside of the adjacent wall of said box and fastened to the integral extensions from said box by a pivotal connection, the turned over edge of one end of said cover which is adjacent the pivotal connection to the body of the box being located inside of the integral extensions from the main portion of the box but overlapping the end wall of said box and free from contact therewith.

Signed at New York city, N. Y. this 20th day of July, 1909.

ALBERT E. BLACKMAN.

Witnesses:

BEATRICE MIRVIS,

IDA G. GILMORE.