Sept. 8, 1936. G. C. FARMER 2,053,706

MITER BOX

Original Filed July 11, 1934 3 Sheets-Sheet 1

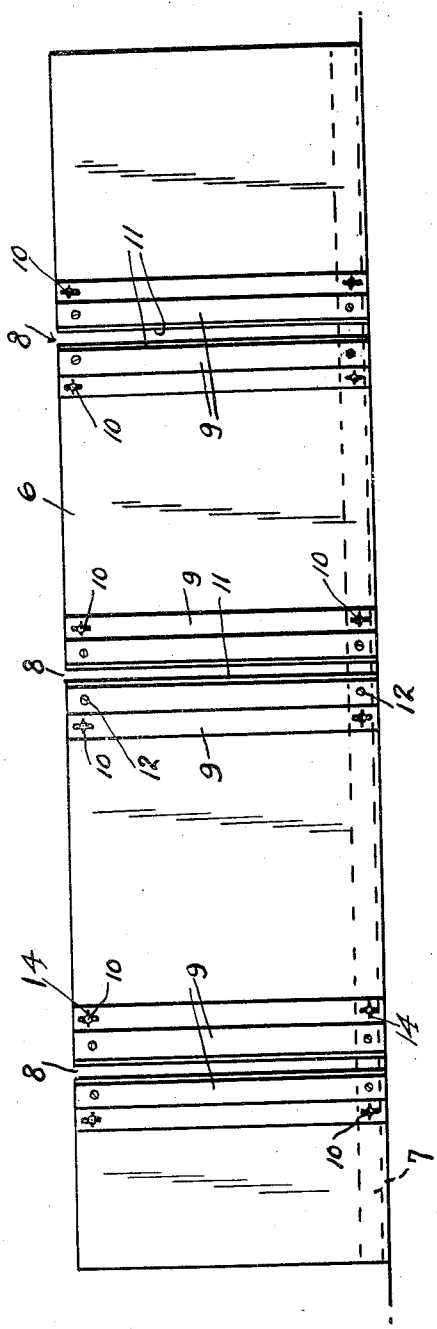


Fig. 1.

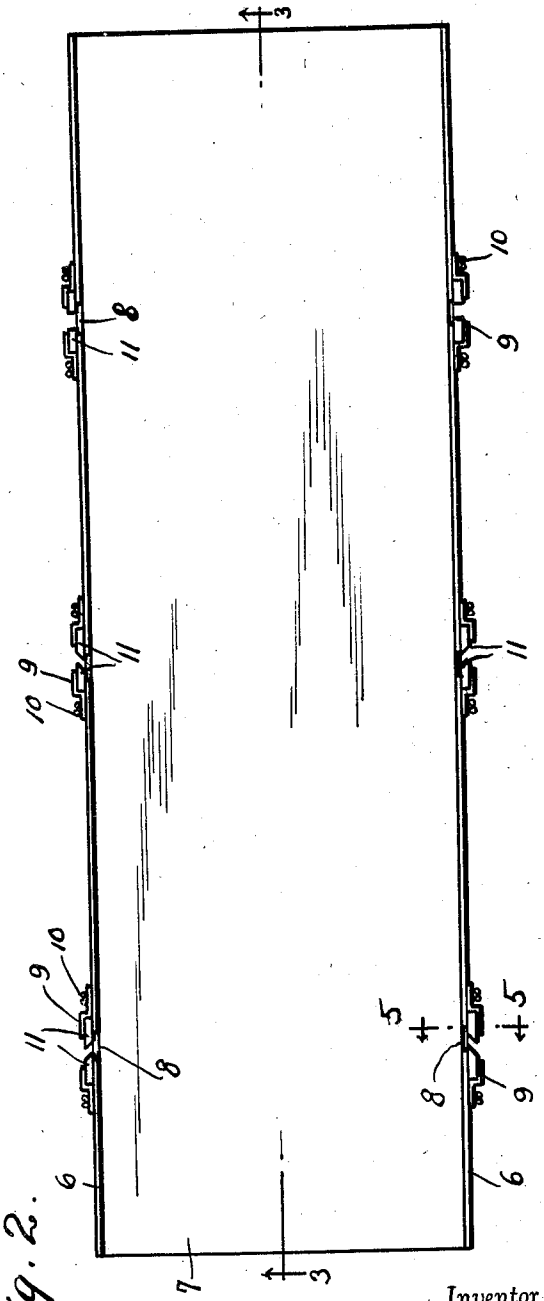


Fig. 2.

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MITER BOX

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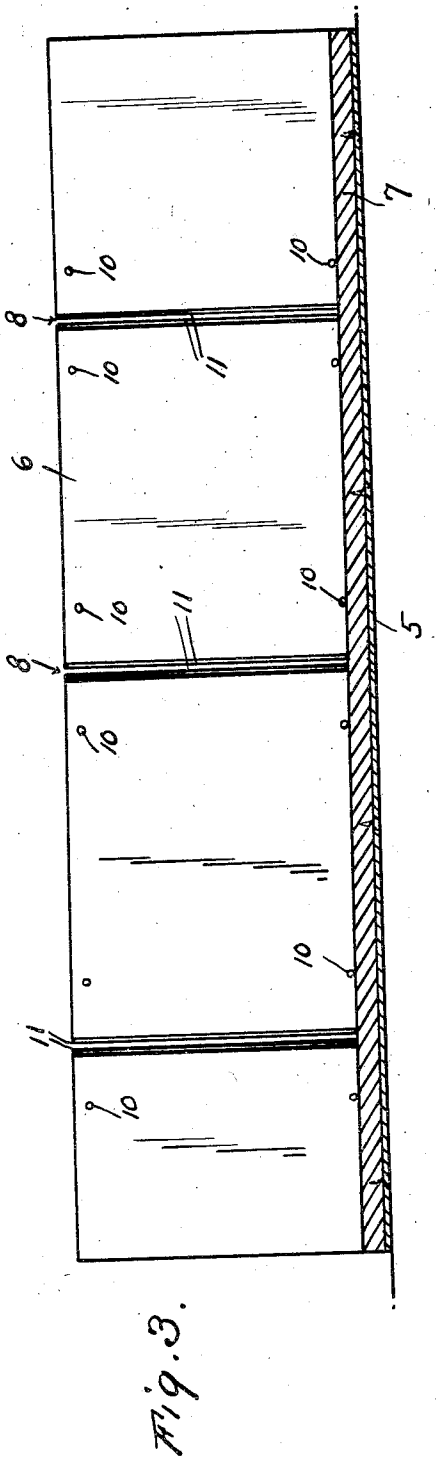


Fig. 3.

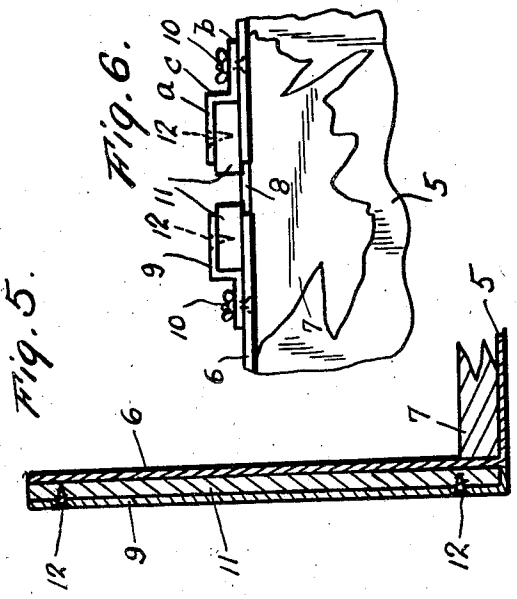


Fig. 5.



Fig. 6.

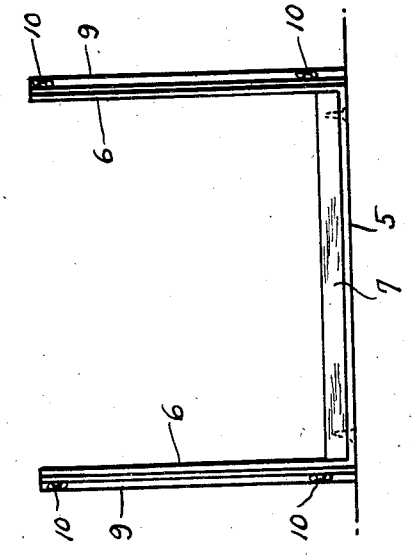


Fig. 4.

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MITER BOX

Original Filed July 11, 1934 3 Sheets-Sheet 3

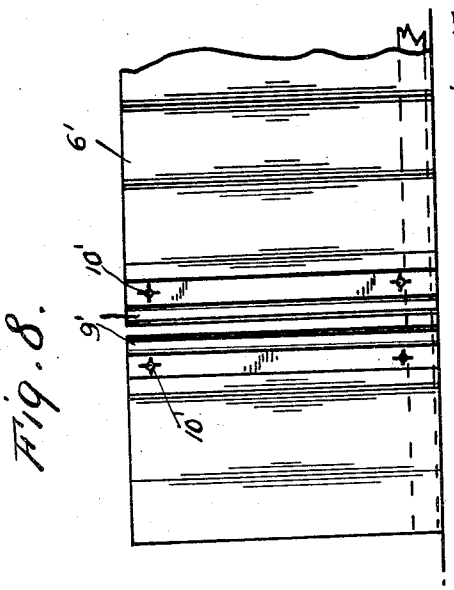



Fig. 8.

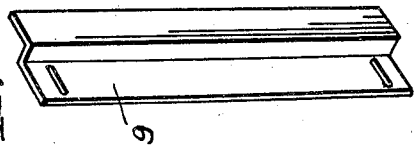



Fig. 11.

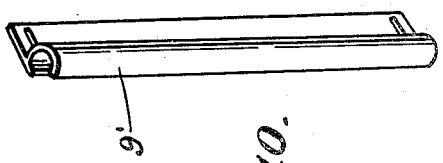



Fig. 10.

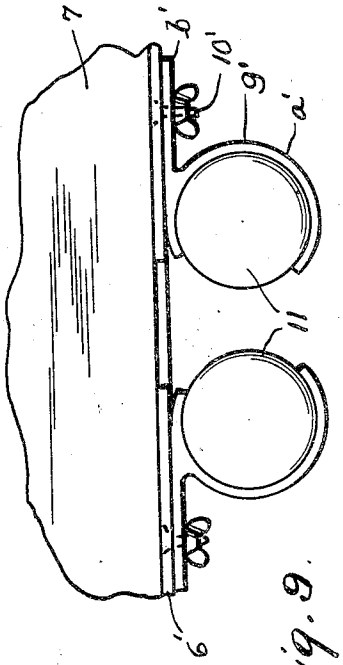



Fig. 9.

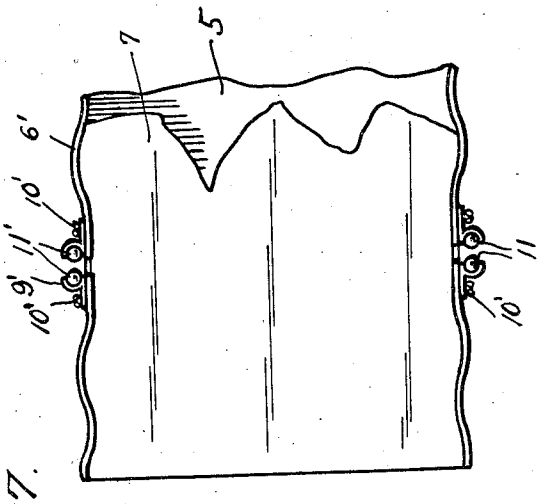



Fig. 7.

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Patented Sept. 8, 1936

2,053,706

# UNITED STATES PATENT OFFICE

2,053,706

## MITER BOX

Gordon C. Farmer, Newport, Va.

Application July 11, 1934, Serial No. 734,663
Renewed April 6, 1936

3 Claims. (Cl. 143—86)

The present invention relates to a miter box and has for its prime object to provide a metallic box with guides in the slots thereof having replaceable wood inserts whereby an extremely simple and inexpensive miter box may be provided which is thoroughly efficient and reliable in use and otherwise well adapted to the purpose for which it is designed.

With the above and numerous other objects in view as will appear as the description proceeds, the invention consists in certain novel features of construction, and in the combination and arrangement of parts as will hereinafter be more fully described and claimed.

In the drawings:

Figure 1 is a side elevation of a box embodying the features of my invention.

Figure 2 is a top plan view thereof.

Figure 3 is a vertical longitudinal section therethrough taken substantially on the line 3—3 of Figure 2.

Figure 4 is an end elevation thereof.

Figure 5 is a vertical detail section taken substantially on the line 5—5 of Figure 2.

Figure 6 is a fragmentary top plan view showing one side wall and a pair of guides.

Figure 7 is a fragmentary top plan view showing one end of another embodiment of the box.

Figure 8 is a side elevation thereof.

Figure 9 is an enlarged detail top plan view showing a pair of guides and inserts.

Figure 10 is a perspective view of one of the guides.

Figure 11 is an enlarged perspective view of another one of the guides.

Referring to the drawings in detail and first particularly to Figures 1 to 6 inclusive, and 11 it will be seen that the box comprises a metallic bottom 5 with metallic sides 6 rising therefrom. A wooden strip 7 is mounted on the bottom 5. The sides 6 are provided with the usual vertical slots 8 alined at forty five degree angles and ninety degree angles. The guide structure of one of these slots will be described in detail as all the guide structures are substantially the same. Each guide structure comprises a pair of holders 9 of substantially Z-shaped formation to include ends *a* and *b* connected by *c* at right angles thereto. The ends *b* are secured to the sides 6 by bolts and thumb nuts 10. Wooden strips 11 are secured to the ends *a* by screws 12 or the like to be disposed inwardly thereof. The thumb nuts and bolts are engaged in slots 14 provided in the ends *b* so that if desired the guides and strips therein may be adjusted toward and from each other. A mere inspection of Figure 2 will show that the diagonally alined slots have the strips beveled.

Now referring to Figures 7, 8, 9, and 10 it will be seen that the guides 9′ consist of strips *b*′ engaged with the sides by means of bolts and thumb nuts 10′ and have open circular like receiving portions *a*′ for cylindrical strips or dowels 11′. Otherwise this embodiment is substantially the same as that just described except that the side walls 6′ are of a somewhat corrugated configuration.

It is thought that the construction, utility and advantages of this invention will now be quite apparent to those skilled in this art without a more detailed description thereof.

The present embodiment of the invention has been described in considerable detail merely for the purposes of exemplification since in actual practice it attains the features of advantage enumerated as desirable in the statement of the invention and the above description.

It will be apparent that changes in the details of construction, and in the combination and arrangement of parts may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed or sacrificing any of its advantages.

Having thus described my invention, what I claim as new is:

1. A miter box of the class described comprising a metallic bottom having metallic sides rising therefrom provided with vertical slots, a plurality of wooden strips one to each side of each slot, and means for holding the strips, said means comprising guide members of substantial Z-shaped formation with ends fixed adjustably to the sides and ends fixed to the strips.

2. A miter box of the class described comprising a bottom and a pair of vertically arranged sides, said bottom and sides being formed of metal and the sides being of the same length as the bottom and having vertically arranged slots therein extending from their upper edges to the bottom, a pair of vertically arranged strips of wood for each slot and means for fastening the strips to a side with the space between the adjacent edges of each pair of strips slightly less than the width of the slot, each strip being of substantially circular shape in cross section and the fastening means for each strip comprising a plate-like part having horizontal slots therein and a substantially semi-circular part extending outwardly from the first part for receiving a strip and bolts passing through the

slots for connecting the slotted parts adjustably to a side.

3. A miter box of the class described comprising a bottom and a pair of vertically arranged sides, said bottom and sides being formed of metal and the sides having vertically arranged slots therein extending from their upper edges to the bottom, a pair of vertically arranged narrow strips of wood for each slot, brackets for fastening the pairs of strips to the exterior faces of the sides with the space between the adjacent edges of each pair of strips slightly less than the width of the slot, each bracket having a side engaging part and a strip engaging part, the side engaging part having horizontal slots therein, bolts carried by the sides and passed through the slots for adjustably connecting the brackets to the sides and means for fastening the brackets to the strips.

GORDON C. FARMER.