C. J. COLLING, JR.

BOX.

APPLICATION FILED JAN. 28, 1911. RENEWED NOV. 29, 1912.

1,049,998. Patented Jan. 7, 1913.

Fig I

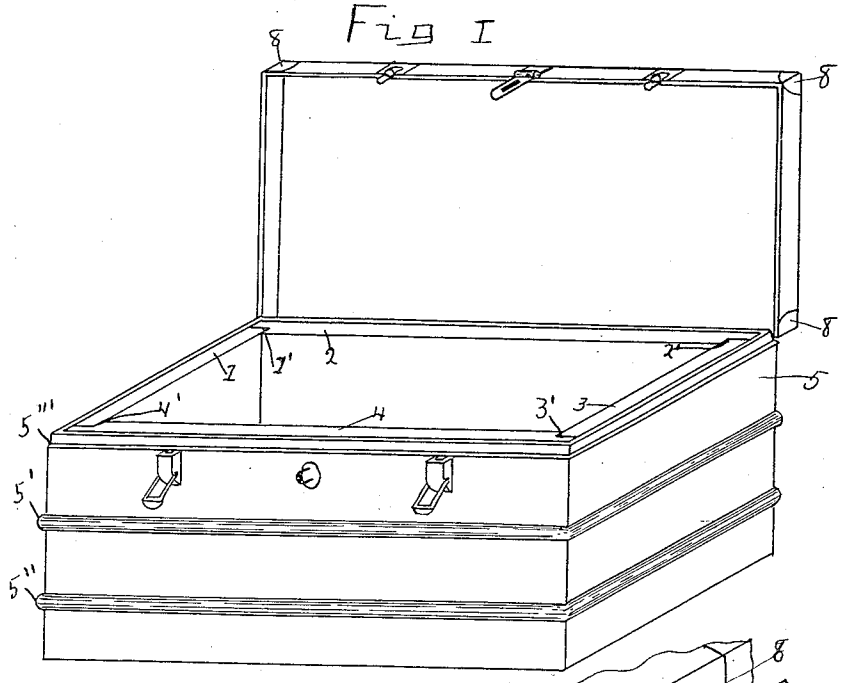


Fig II

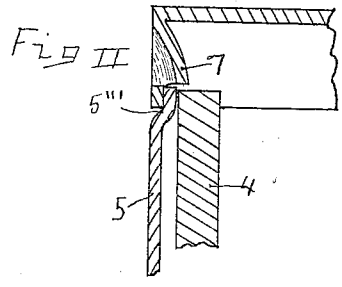
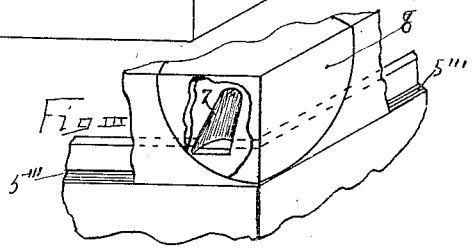


Fig III



WITNESSES

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BOX.

1,049,998. Specification of Letters Patent. Patented Jan. 7, 1913.

Application filed January 28, 1911, Serial No. 605,274. Renewed November 29, 1912. Serial No. 734,197.

To all whom it may concern:

Be it known that I, CHARLES J. COLLING, Jr., a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Boxes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

This invention relates to tool or battery boxes adapted especially for use in connection with, and to be carried by automobiles, being preferably located upon the steps of the same, or as a matter of fact forming or constituting in connection with its utility as a tool or battery box a step for entrance or exit from the automobile.

The object of this invention is to provide a tool box or battery box which has all the advantages of a tool or battery box at the present time in use, together with other advantages which accrue from the construction of this box, the first being economy, in construction without departure from either strength, utility or ornamentation.

In forming boxes of this type it has usually been necessary to form the same so as to present no joints upon the body of the structure, and hence both the body and the cover were either drawn by die process, welded at the joints, where the parts were made from forms, or other extravagant methods of manufacture, and this resulted in a great loss caused by what is known as imperfect welding, broken points in the drawing both of the cover and the body of the box, and from other causes incident to the intricate method of manufacture. In manufacturing this box I have endeavored to avoid intricate manufacture, while at the same time obtaining as good a box both as to its utility and as to its conformation, and as to its other uses, for instance, as a step, while at the same time the accidents and losses above mentioned are avoided.

The above being the objects of my invention, my invention consists in the peculiar construction of the box as a whole and the combination of the same of the different features of construction, all of which will be hereinafter fully set forth and claimed.

In the drawings, in Figure I, I have shown a box constructed according to my invention, showing the same interlined with wood, and also illustrating other features of construction characteristic of my invention. Fig. II, is a view illustrating a stop construction formed integral with the cover, and adapted to sustain the cover against downward pressure. Fig. III, illustrates the corner pieces of the cover, which are so constructed and applied as to hide the orifice made through the offset or indentation which forms the stops for the box cover.

In the drawings, 1, 2, 3 and 4 represent the interior lining of the body 5, which interior lining is formed of boards, the opposite or opposed sides of which are rabbeted as at 1′, 2′, 3′ and 4′ to receive either the end or the side portions according as to whether the end or side portions are rabbeted. The bottom portion, not shown, is merely a flat board extending the full length and width of the bottom. By the construction of rabbeting as illustrated in Fig. I, it is apparent that both the side and the end boards may be placed and removed easily without any tools, as they slide in relation to each other and independent one of the other; thus should the lining or any part thereof become worn, a new piece can be easily inserted to replace it, or the whole lining can be removed and a new lining be placed in the box.

Of course it will be understood that the convenience in making the box with the lining is great, and the economy of the structure through this feature is an important matter.

The body 5, it will be noted, has square corners instead of round corners, and thus the lining will be snug within the body and easily fitted thereto at a minimum cost. In making the body I take a sheet of metal, and ornament it by ribbing or filleting as at 5′, 5″, and provide it with a shouldered portion at the top 5‴ so as to allow of the cover being flush with the body; I then bend the body portion around a form, and weld or otherwise secure the ends of the blank together. The ledges upon which the metallic bottom of the box rests, are inturned as is usual in any suitable manner, and the bottom may be riveted to said inturned ledges.

In forming the cover of the box I form it of one blank piece, having its inturned

flanges separate, or disunited at the ends, and at the same time during the forming of the blank for the top I depress or form the stops 7. The corner pieces 8 are applied for the purpose of retaining the corners in place, and ornamentation, and hiding the depressed stops from the exterior.

Thus in forming a box of this type I have attained an economical construction, a construction which is adapted for its purpose, can be economically made throughout, including its lining, and a construction which is staple and ornamental.

Inasmuch as the cover of the box is usually used as a step and has to sustain pressure up to two or three hundred pounds, the stops 7 are formed which rest not only upon the outer edges of the metal but upon the wood blank. This is a feature of importance and a feature of economy, inasmuch as these stops have heretofore been made by inserting a rivet which is entirely sustained by the thickness of the metal at the point of rest between the cover and the upper portion of the box.

In setting forth and describing this invention I have shown and described it as it seems to me at the present time best adapted but I do not hence wish to be limited to the exact construction and details of construction.

What I claim is:

An automobile tool or battery box of the type set forth comprising sides formed of a single piece of metal, a bottom portion secured to said sides, the upper edges of said sides beveled to form a shoulder; a lining for said sides and bottom consisting of a bottom piece extending the entire area of the bottom of the box, side pieces rabbeted to hold themselves in position inside the box; a cover for said box, said cover hinged at one side and having downwardly extending flanges adapted to fit with the shouldered portion of the box, lugs formed on the flanged portion of said cover adapted to rest on the upper edge of the box, corner pieces located on the corners of said cover and adapted to cover the indentations caused by the forming of said lugs, all substantially as and for the purpose set forth.

Signed at Cleveland in the county of Cuyahoga and State of Ohio this 3rd day January 1911.

CHARLES J. COLLING, JR.

Witnesses:

JOHN J. DONNELLY,

FRANK C. GREGG.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."