W. TISCH.

BOX CORNER CONSTRUCTION.

APPLICATION FILED AUG. 18, 1919.

1,383,499. Patented July 5, 1921.

Fig. 1.

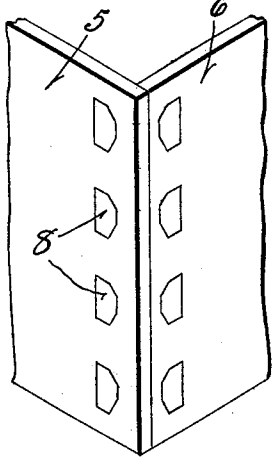


Fig. 2.

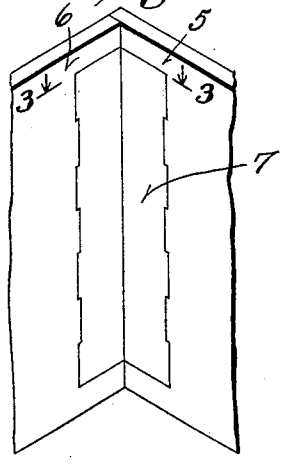


Fig. 3.



Fig. 4.

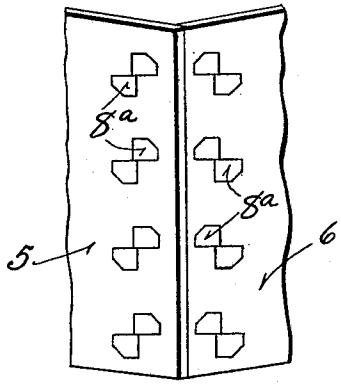
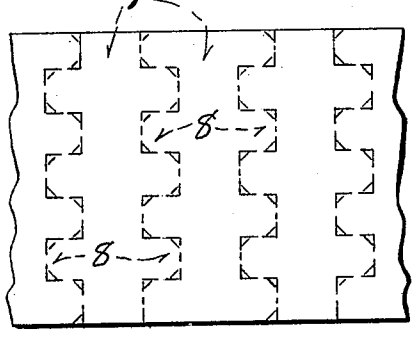


Fig. 5.



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BOX-CORNER CONSTRUCTION.

1,383,499. Specification of Letters Patent. Patented July 5, 1921.

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To all whom it may concern:

Be it known that I, WILLIAM TISCH, a citizen of the United States, and resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Box-Corner Constructions; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to new and useful improvements in means for connecting together the sections of a box, particularly of that relatively light type formed of fiber board or similar material.

It is in general the object of my invention to procure an economy of material and operative steps in the manufacture of boxes of this character, and to increase the durability and neatness of appearance of such boxes.

It is more particularly my object to provide a metallic angle plate or strip for connecting sections of a box, which permit the sections to be accurately positioned with respect to each other in a most convenient manner.

A still further object resides in a connecting strip for the sections of the box, which does not interfere with the application of pasted binding strips or coverings to the corner portions of the outer surfaces of the strips.

With the above and other objects and advantages in view, which will be apparent as the description proceeds, my invention resides in the novel features of construction, combination and arrangement of parts which will be hereinafter more particularly described and defined by the appended claims.

In the accompanying drawings:

Figure 1 is a perspective view of a corner portion of a box constructed in accordance with my invention, looking toward the outside of the box.

Fig. 2 is a similar view looking toward the inner side of the box.

Fig. 3 is a sectional view through the corner portion of the box on a plane indicated by the line 3—3 of Fig. 2.

Fig. 4 is a perspective view similar to Fig. 1, and showing a slightly modified structure.

Fig. 5 is a plan view of a stock sheet of metal from which my improved connecting strips are cut, and showing the arrangement for cutting the strips without any wastage of material.

Referring now more particularly to the accompanying drawings, 5 and 6 designate respectively wall sections of a box for containing cigars or other articles, these wall sections being formed of pressed fiber in the present instance, although they may be formed of any suitable material.

My improved means for connecting these sections together comprises an angular strip 7 formed of very light sheet metal and fitting against the edge portions of the inner faces of the box sections, securing tongues 8 extending outwardly from the side edges of the strip and being passed through the box section and then bent toward the corner of the box, the body plate 7 and tongues being pressed into the box sections so as to lie flush with the surfaces thereof.

Fig. 4 which illustrates a perspective view of a box corner shows a modified form of my invention, wherein the securing tongues 8′ are split transversely at their outer ends, and the divided sections in this instance are folded back upon the box body in opposite directions, the said folded ends being embedded in the material to form a flush face.

An exceedingly simple, durable, and efficient connection is thus provided, which greatly facilitates the operation of setting up and forming the box. By placing the angular strap at the inside of the box corner, considerably less expenditure of metal is necessary than if the strap were placed on the outside of the box. At the same time, the corner edge of the box presents a fiber or similar surface which will coact with the paste of the usual binder strips or covering applied to the outer surface of the box, whereas if a metal surface were afforded at the corner of the box, the covering would strip off by failure of its paste to effect proper engagement.

It will further be noted that by placing the angle strip at the inside of the box, the strip is braced by its engagement with the box sections against spreading movement due to outward or bulging pressure against the box sections, and also, the strip may be more readily pressed into the material of the box sections. In assembling the box, the strip is first accurately associated with one of the sections, the other section is then moved up against the first section in accurate relation and the tongues are clenched through said other section, and any unevenness in the edges of the sections may

be corrected by trimming off the uneven edge after the sections have been connected, which of course could not be effected were the strip on the outside and any unevenness would then result in distortion of the completed box. It will be further noted that by clenching the tongues inwardly, the edges of the sections are fairly protected, and also the spaces between these tongues serve to distribute bending or breaking stresses which would occur upon outward bulging pressures against the sections, to thus relieve the liability of bending or breaking the sections at the edge line of the connecting strip.

What is claimed is:

1. In a box structure, a pair of box sections disposed in angular relation, an elongated connecting strip longitudinally bent to provide an angular cross section and engaged against the edge portions of the inner faces of the box sections, and tongues extending from the edge portions of said strip through the box sections, said tongues having their outer portions bent to lie against the outer faces of the box sections.

2. In a box structure, a pair of box sections disposed in angular relation, an elongated connecting strip longitudinally bent to provide an angular cross section and engaged against the edge portions of the inner faces of the box sections, and tongues extending from the edge portions of said strip through the box sections, said tongues having their outer portions bent toward the meeting edges of the box sections.

In testimony that I claim the foregoing I have hereunto set my hand at Milwaukee, in the county of Milwaukee, and State of Wisconsin.

WILLIAM TISCH.