C. W. MORTON.

INTERLOCKABLE METAL CORNER.

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1,162,798.

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Fig. 1.

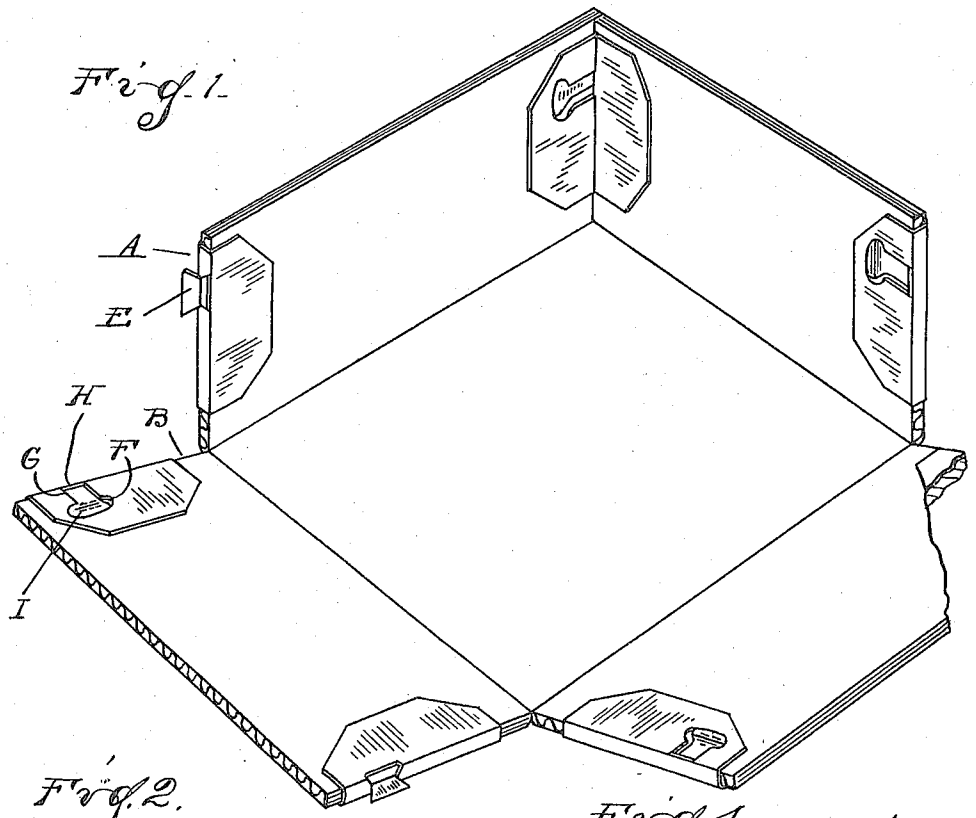


Fig. 2.

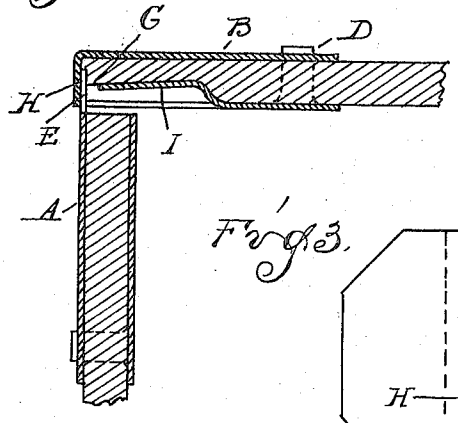


Fig. 4.

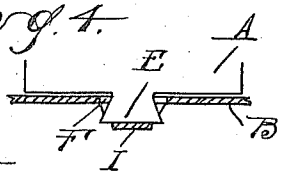


Fig. 5.

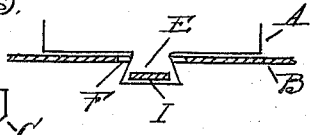
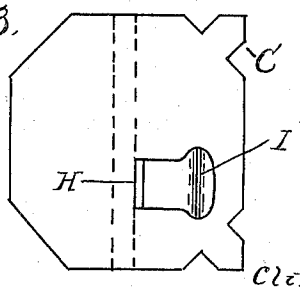


Fig. 3.



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INTERLOCKABLE METAL CORNER.

1,162,798. Specification of Letters Patent. Patented Dec. 7, 1915.

Application filed October 22, 1914. Serial No. 868,032.

To all whom it may concern:

Be it known that I, CLIFFORD WALDO MORTON, a citizen of the United States of America, residing at Sandusky, in the county of Erie and State of Ohio, have invented certain new and useful Improvements in Interlockable Metal Corners, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to interlockable metallic corner construction designed for application to various articles such as paper boxes.

It is the object of the invention to provide a construction formed of separable sections which may be applied to the flat blank and which permits of the shipping of said blanks in knock down condition.

It is a further object to provide a means of interlocking engagement between the sections permitting of quickly assembling the box and securely holding the adjacent sides thereof from displacement.

Still further, it is an object to combine the interlocking means with a reinforcement for the box or other article which contributes to the strength of the latter.

In the drawings: Figure 1 is a perspective view showing my improved construction applied to a box blank, two of the sides being in assembled position; Fig. 2 is a longitudinal section through the corner; Fig. 3 is a plan view of the blank from which one of the corner sections is formed; and Figs. 4 and 5 are cross sections showing respectively the sections during and after interlocking engagement.

My improved interlockable corner comprises two sections A and B, preferably formed of sheet metal and adapted to be applied to the adjacent sides of a box blank or other article. Each section is preferably bent into a U-shaped cross section to embrace the side of the box to which it is attached, and one or more prongs C are formed for perforating the paper and for clenching on the opposite side of the same, as shown at D Fig. 2.

The interlock between the sections is formed by a projecting undercut or dovetail tongue member E, which engages an entering slot F in the complementary section and may then be moved laterally into a narrower slot G up against a shoulder H at the end of said slot. Disengagement is prevented by a spring tongue or keeper preferably formed of the metal struck out from the slots F and G and operating to spring over the tongue E when against the shoulder H. Thus, as shown in Fig. 2, the two sections A and B when engaged are so interlocked as to prevent displacement in any direction. It will also be observed that said sections stand at right angles to each other and therefore form a square corner; further, that in the construction as specifically shown the tongue E bears against a shoulder H formed by the portion of the sheet metal which is bent around the edge of the paper blank, and therefore that the side to which the section A is applied is substantially in the plane of the end of the adjacent side.

The sections A and B may be readily formed by die operations and may be automatically applied to the paper blank. When thus applied the spring tongue or keeper I is depressed below the surface of the blank so as to permit of the insertion of the tongue E and the abutment of the end of the section A against the side of the section B. There are no outward projections on the sides of the members A and B, and therefore the blanks to which they are applied may be stacked in knock down position, lying flat against each other.

What I claim as my invention is:—

1. An interlockable corner construction, comprising sheet metal sections attachable respectively to the adjacent sides of the article to which they are applied, one of said sections having a projecting undercut tongue and the other having a locking recess in its side with an entrance slot for receiving said tongue and having a resilient keeper for preventing disengagement.

2. An interlockable corner construction, comprising sheet metal sections bent to embrace the respective sides of the article to which they are attached, one section being provided with an undercut tongue projecting beyond the end of its side in the plane thereof and the other having a portion struck inwardly to thereby form a locking recess with an entrance slot for receiving the tongue, said inwardly-struck portion forming a keeper for holding said tongue from disengagement.

3. An interlockable corner construction,

comprising sheet metal sections bent to embrace the respective adjacent sides of the article to which it is attached and forming a reinforcement therefor, one of said sections having an undercut tongue projecting beyond its end and the other section having a locking recess with an entrance slot at its inner end for receiving said tongue and a shoulder at its outer end against which said tongue abuts.

4. An interlockable corner construction, comprising sheet metal sections bent to embrace the respective adjacent sides of the article to which they are applied, one of said sections having a tongue struck out therefrom and projecting beyond the end of its side and the other section having an inwardly-struck portion providing a locking recess with an entrance slot at its inner end and a shoulder at its outer end, said inwardly struck portion forming a spring keeper for holding said tongue from disengagement.

5. An interlockable corner construction, comprising sheet metal sections having portions lying in the planes of the respective sides of the article to which they are applied, one of said sections having a tongue projecting in the plane thereof beyond the edge of the side and the other section having a tongue struck inwardly therefrom forming a locking recess with an entrance slot for receiving the first-mentioned tongue, said inwardly-struck tongue forming a keeper to hold said outwardly-projecting tongue from disengagement.

6. An interlockable corner construction, comprising an undercut tongue carried by one of the parts forming the corner, and a member carried by the other part, formed with a slot having a portion through which the tongue may be passed and having a comparatively narrow locking portion.

In testimony whereof I affix my signature in presence of two witnesses.

CLIFFORD WALDO MORTON.

Witnesses:
SIDNEY FROMAN,
FRED EMMONS.

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