

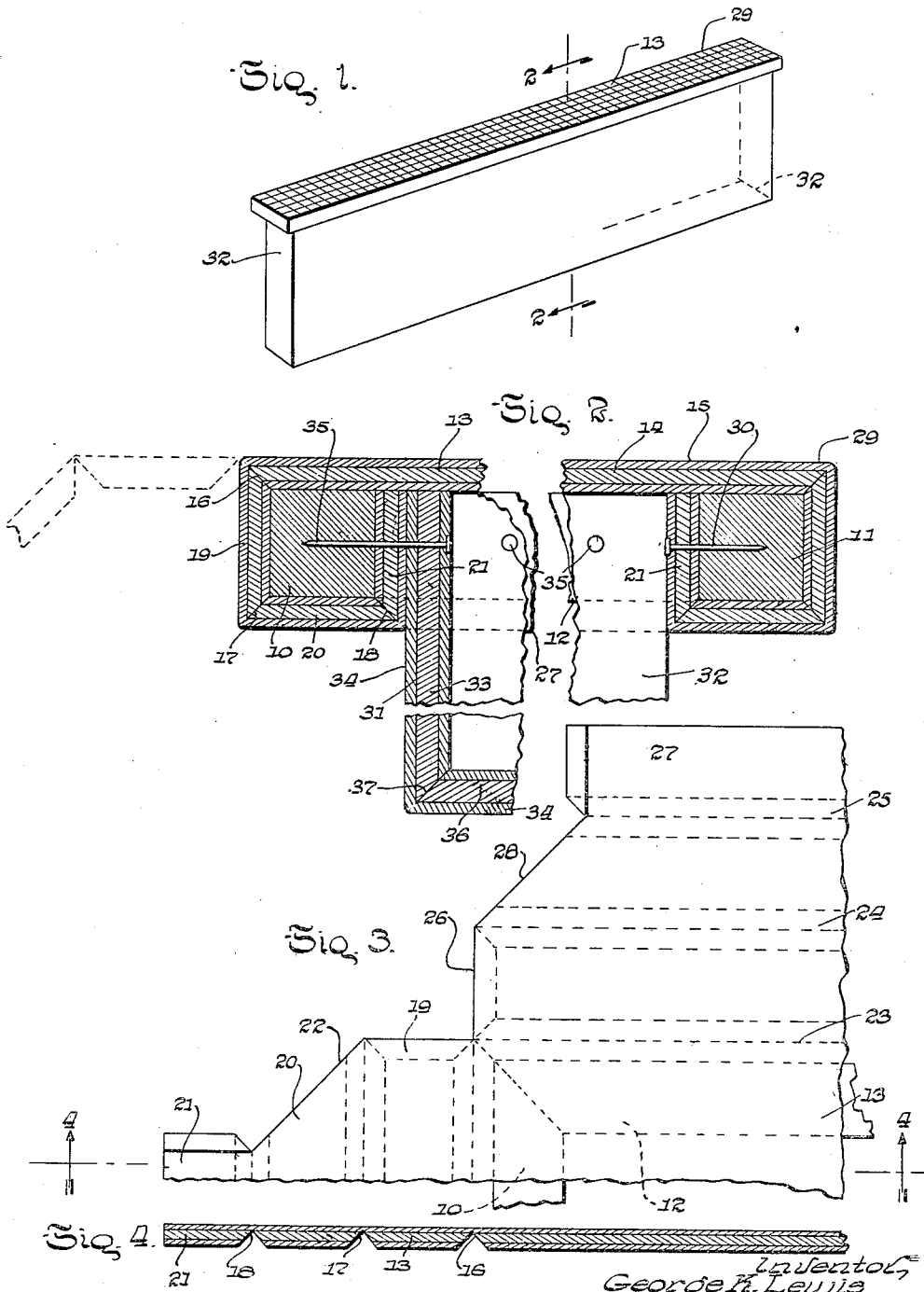
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COUNTER CONSTRUCTION

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UNITED STATES PATENT OFFICE

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COUNTER CONSTRUCTION

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This invention relates to counter constructions.

An object of this invention is to provide a counter construction made up of a plurality of composite panels each comprising laminations of wood and steel and wherein the panels are fabricated into a complete counter-structure in a novel and efficient manner.

Another object of the invention is to provide a counter structure of the character referred to in which the body portions of the laminated panels are cut out in predetermined fashion and the steel layers bent to form the edges and corners of the counter construction together with fastening means for securing the parts in the desired position.

Other and further objects of the invention will more clearly appear from the description and claims hereinafter following.

Referring to the drawings forming a part of this specification, Figure 1 is a perspective view of the counter construction embodying the invention. Figure 2 is a transverse, fragmentary, vertical sectional view of the counter construction, corresponding substantially to the line 2—2 of Figure 1. Figure 3 is an enlarged plan view of a fragment of the top panel showing the manner in which the same is cut out to provide the corner portion of the counter construction. And Figure 4 is a sectional view through the panel corresponding substantially to the line 4—4 of Figure 3.

As shown in the drawings, longitudinally extending front and rear frame members are provided which are indicated by the reference characters 10 and 11. The longitudinally extending front and rear members are joined at opposite ends by means of transversely extending frame members, one of which is indicated at 12. The frame members provide an elongated rectangular formation to which the composite panels are attached.

In providing the top of the counter, a composite laminated panel indicated at 13 is utilized. The panel 13 is made up of a plurality of layers of ply wood indicated at 14, and an outer veneer of sheet steel 15, the ply wood and steel laminations being rigidly secured together. The panel 13 when so formed, is of

great strength and rigidity and extremely light in weight, and it is preferably embossed to provide intersecting lines to simulate tiling. The panel 13 has its body portion cut out as indicated at 16, 17 and 18, to provide sections 19, 20 and 21 adapted to be disposed about the frame member 10 through the expedient of bending the steel veneer at the points where the body portion is cut out, as best shown in Figure 2. At each end of the forward portion of the panel 13, the panel is cut out to form the corner. As best shown in Figure 3, the portions 19 and 21 are made of different lengths, that is, the portion 19 is longer than the portion 21, while the intermediate portion is inclined from the portion 21 toward the portion 19, as indicated at 22. The short or transverse edge of the top panel 13 is cut out as indicated at 23, 24 and 25, in the same manner as the longitudinally extending forward edge, and the end of the transverse portion adjacent the end of the longitudinal portion above described is likewise cut out to form a relatively long section 26, and a shorter section 27, with the intermediate section having a bevel portion 28 similar to the bevel portion 22. The transversely extending portion of the panel 13, by reason of the provision of the cut-outs 23, 24 and 25, may be disposed about the transverse frame member 12 in the same manner as the sections 19, 20 and 21 at the longitudinally extending forward portion of the top panel 13. The rear edge 29 of the panel 13 is formed in the same manner as the forward edge and the same reference characters will be used to designate like parts of both constructions. The corner formations at the ends of the rear longitudinally extending portion of the panel 13 also are similar in all respects to the corner above described in connection with the forward end of the counter. The section 21 of the rear portion of the panel 13 is secured directly to the rear frame member 11 by means of a row of securing elements one of which is shown at 30, the securing elements extending through the section 21 and into the frame member 11.

The top of the counter, including the panel 13, and the frame members, is supported in

elevated position by means of a supporting panel having a front wall 31, and wings 32—32. The supporting panel 31 is composed of layers 33 of ply wood with an exterior veneer of steel, the laminations comprising the panel being rigidly secured together in the manner heretofore referred to. The wings 32—32 form component parts of the panel 31 and are produced by cutting out the ply wood layers 33 in the same manner as described in connection with the cut-out portions at the edges of the top panel 13, so that the steel veneer 34 may be bent at the corners to form the wings 32—32. The supporting panel 31 is disposed so as to abut against the inner surfaces of the sections 21 and 27 at the front and sides of the top of the counter and is secured in position by securing elements arranged at intervals, some of which are indicated by the reference character 35, said securing elements extending through the upper portion of the panel 31, through the sections 21 and 27, and into the frame members 10 and 12. The lower end of the supporting panel 31 may be provided with an angular portion 36 which may be nailed to the floor if desired to support the structure in rigid position, a cut-out 37 being utilized for obtaining the necessary bend in the steel veneer 34.

It will be appreciated from the above description that the panels are fabricated in such manner that the exterior surface of the counter throughout is armored by the steel veneer which, together with the fibrous portion of the panels, provide great strength and rigidity, and due to the manner of fabrication of the panels, a smooth and attractively finished structure may be produced with a minimum of time and labor.

While I have herein shown and described what I now consider the preferred manner of carrying out my invention, the same is merely illustrative and I contemplate all changes and modifications that come within the scope of the claims appended hereto.

I claim:

1. In a structure of the character described, the combination with top frame members each polygonal in cross section; of a composite, horizontally disposed panel, comprising laminations of fibrous material and steel, the fibrous material being cut out at intervals to permit bending of the steel lamination, the sections defined by the cut-out portions being wrapped about each polygonal frame member, and the sections corresponding to the sides of each member; supporting means including vertically disposed walls, each comprising a composite panel of fibrous material and steel for supporting the top panel and frame members in elevated position; and securing elements extending through the upper edges of said vertically disposed walls, through the end sections of the top panel and into said frame members, whereby said secur-

ing elements simultaneously secure the enumerated parts in position.

2. In a construction of the character described, the combination with frame members polygonal in cross section and disposed at angles to each other; of a panel made up of laminations of fibrous material and metal, said panel having a body portion arranged in a flat plane, and having sets of connected marginal sections, each set comprising a plurality of sections arranged at an angle to each other with one section disposed in parallel relation to and abutting a face of the related frame member, being wrapped about the related frame member, said sections of each set being formed by cutting out the fibrous material of the panel to permit bending of the metallic lamination, and each section corresponding to one side surface of the related frame member, the end portions of said sections being cut to provide meeting edges at the ends of related sections when the latter are wrapped about said frame members to form a corner.

3. In a construction of the character described, the combination with frame members polygonal in cross section and disposed at angles to each other; of a panel made up of laminations of fibrous material and metal, said panel having a body portion arranged in a flat plane, and having sets of connected marginal sections, each set comprising a plurality of sections arranged at an angle to each other, being wrapped about the related frame member, said sections being formed by cutting out the fibrous material of the panel to permit bending of the metallic lamination, and each section corresponding to one side surface of the related frame member, the end portions of said sections being cut to provide meeting edges at the ends of related sections when the latter are wrapped about said frame members to form a corner; means for supporting said frame members and panel in elevated position, said means including a plurality of walls, each of which comprises a laminated panel of fibrous material and metal, the upper edges of which are disposed inwardly of said frame members; and securing elements extending through the upper edges of said supporting panels, through one of said sections of the top panel and into said frame members.

4. In a structure of the class described, the combination of composite panel members each comprising fibrous material and metal sheathing, said panels being disposed at right angles and one of said panels being extended beyond the face of the other panel, a core member disposed adjacent said extension portion of the panel and said extension having its fibrous portions cut away at points corresponding to the corners of said core, and said extension being folded around said core with one portion disposed in parallel relation to

said other panel and positioned between said panel and the core, and fastening means extending through said panel, parallel portion of the said extension and into said core.

5 In witness that I claim the foregoing I have hereunto subscribed my name this 31st day of March, 1928.

GEORGE K. LEWIS.

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