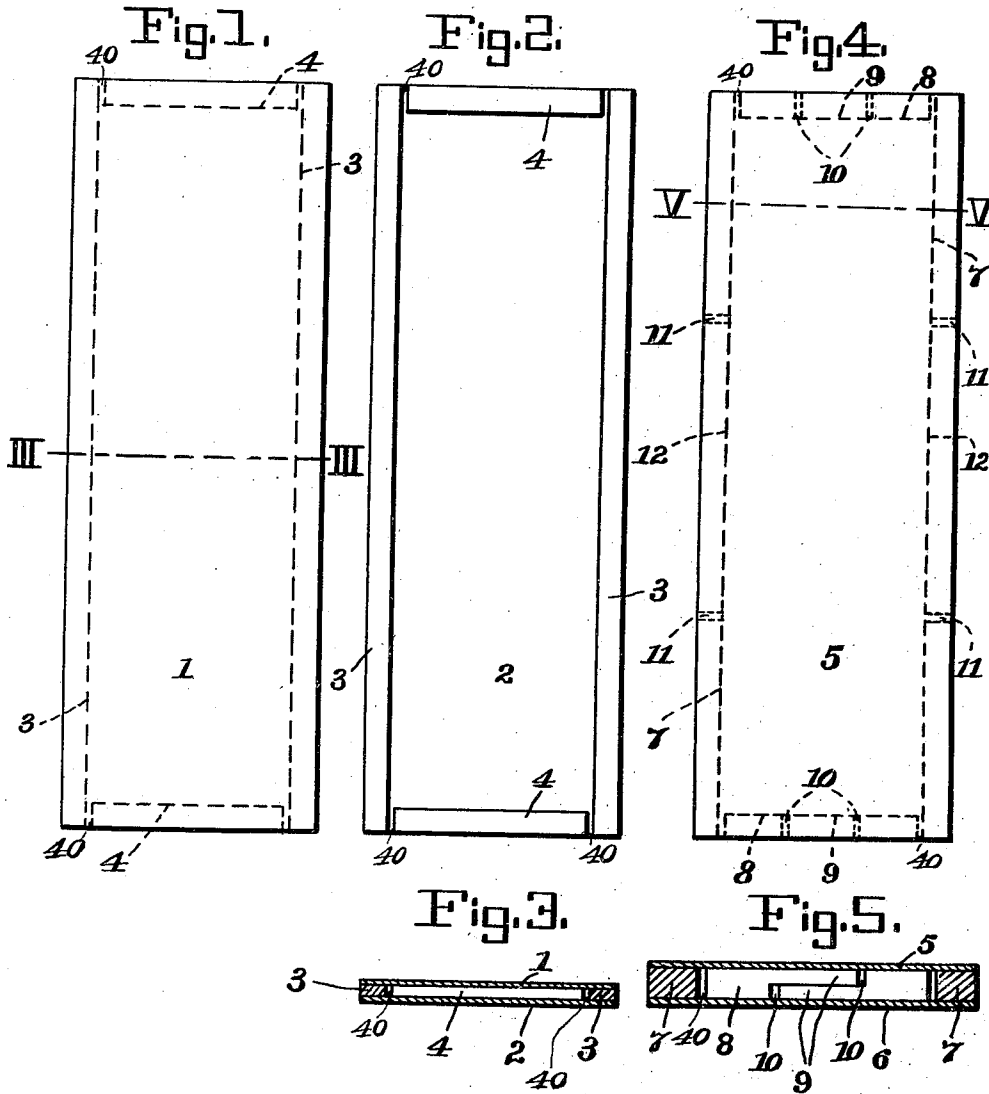


E. K. KEPLEY AND C. A. COLE.
WOODEN PANEL.
APPLICATION FILED AUG. 20, 1920.

1,374,580.

Patented Apr. 12, 1921.



Inventors:
Edward K. Kepley
and
Charles A. Cole
By Frederick V. Winters
Attorney.

UNITED STATES PATENT OFFICE.

EDWARD K. KEPLEY, OF BOONTON, AND CHARLES A. COLE, OF JERSEY CITY, NEW JERSEY.

WOODEN PANEL.

1,374,580.

Specification of Letters Patent.

Patented Apr. 12, 1921.

Application filed August 20, 1920. Serial No. 404,790.

To all whom it may concern:

Be it known that we, EDWARD K. KEPLEY, a citizen of the United States, residing at Boonton, in the county of Morris and State of New Jersey, and CHARLES A. COLE, a citizen of the United States, and resident of Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Wooden Panels, of which the following is a full, clear, and exact specification.

This invention relates to wooden panels for use in doors, walls, etc., and has for its object to produce a panel which will not warp and buckle out of shape under changing temperatures and varying weather conditions.

Another object is to simplify the construction of such panels and produce the same at small expense. Other objects will appear as the description proceeds.

The invention will be first hereinafter described in connection with the accompanying drawings, which constitute part of this specification, and then more specifically defined in the claims at the end of the description.

In the accompanying drawings, wherein similar reference characters are used to designate corresponding parts throughout the several views:—

Figure 1 is an elevation of a panel made substantially in accordance with this invention.

Fig. 2 is a similar view with the front board removed.

Fig. 3 is a section on line III—III of Fig. 1.

Fig. 4 is a view like Fig. 1 but indicating a modified form of spacing strips in dotted lines, and

Fig. 5 is a section on line V—V of Fig. 4 drawn to a larger scale.

In Figs. 1, 2 and 3, the front and rear boards 1 and 2 of the panel are spaced apart by strips 3 and 4, the strips 3 extending the full length of the boards and the strips 4 extending along the ends thereof between the end portions of said strips 3 but terminating short of and out of contact with said strips 3. Spaces 40 are thus left between the lateral spacing strips 3 and the end spacing strips 4 which allows for such expansion and contraction as may be caused

by changes in temperature and weather conditions, and prevents the panel from warping or buckling in damp weather or when subjected to drying out temperatures. The strips 3 and 4 are fastened by glue or other suitable means to the front and rear boards 1 and 2 separately but said strips are not otherwise fastened to one another, so that each strip is free to contract and expand alone without affecting the others.

As illustrated in Figs. 4 and 5, the chances of warping and buckling of the panel may be further reduced by making the spacing strips in a plurality of sections with overlapping slip joints, so that each section of each strip may contract and expand independently without affecting the other sections of the same or other strips. In this modification the front and rear boards of the panel are designated 5 and 6, the lateral spacing strips 7 and the end spacing strips 8. As best shown in Fig. 5, each of said end spacing strips is made in two sections having overlapping slip joints or rabbeted portions 9 which do not abut at the ends but leave spaces 10 to allow for expansion of each section independently of the other. Each of the lateral spacing strips 7 is similarly formed of two sections having rabbeted overlapping end portions indicated at 12 in dotted lines in Fig. 4, said overlapping portions 12 being similar to those illustrated in solid lines at 9 in Fig. 5. Said overlapping portions 11 are also spaced apart at their ends like the parts 9 of the end strips, the spaces being indicated at 11 in dotted lines in Fig. 4. It will be understood that each spacing strip may be divided up into or composed of any desired number of sections with similar overlapping portions. For instance, the longer lateral strips may, if desired, be composed of more sections than the shorter end strips.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent of the United States is:—

1. A panel consisting of front and rear boards and wooden spacing strips secured to both boards along each longitudinal and transverse edge of the panel but otherwise unconnected to each other, there being spaces between the end portions of said strips for the purposes specified.

2. A panel consisting of front and rear

boards and wooden spacing strips secured to both boards but otherwise unconnected to each other, there being lateral spacing strips extending the entire length of the boards and end spacing strips extending along the ends of the boards and terminating short of the end portions of said lateral strips for the purposes specified.

3. A panel consisting of front and rear boards and wooden spacing strips secured to both boards along each longitudinal and transverse edge of the panel but otherwise unconnected to each other, each strip being composed of a plurality of separate sections, said strips and sections of the same strips being spaced apart at their ends for the purposes specified.

4. A panel consisting of front and rear boards and wooden spacing strips secured to both boards along each longitudinal and

transverse edge of the panel but otherwise unconnected to each other, each strip being composed of a plurality of separate sections having overlapping slip joints with their ends spaced apart for the purposes specified.

5. A panel consisting of front and rear boards and wooden spacing strips secured to both boards along each longitudinal and transverse edge of the panel but otherwise unconnected to each other, one or more of said strips being composed of a plurality of separate sections having overlapped end portions, the ends of the strips and the ends of the sections of the sectional strips being spaced apart for the purposes specified.

In testimony whereof we have signed our names to this specification.

EDWARD K. KEPLEY.
CHARLES A. COLE.