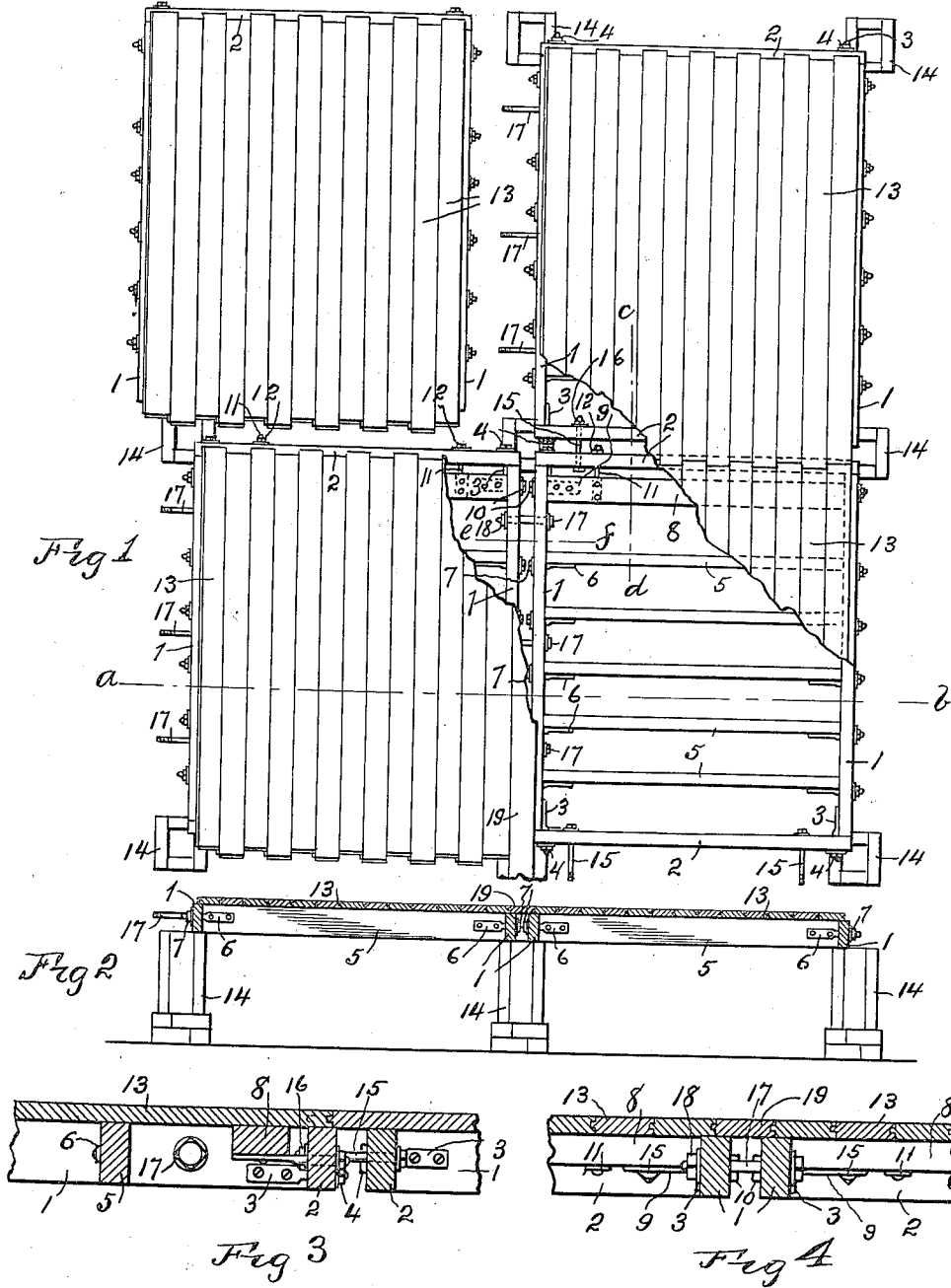


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 PORTABLE SECTIONAL FLOOR.  
 APPLICATION FILED OCT. 3, 1911.

1,045,219.

Patented Nov. 26, 1912.



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# UNITED STATES PATENT OFFICE.

CHARLES TRAMILL AND JAMES H. TRAMILL, OF KANSAS CITY, MISSOURI.

## PORTABLE SECTIONAL FLOOR.

1,045,219.

Specification of Letters Patent.

Patented Nov. 26, 1912.

Application filed October 3, 1911. Serial No. 652,570.

*To all whom it may concern:*

Be it known that we, CHARLES TRAMILL and JAMES H. TRAMILL, citizens of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Portable Sectional Floors, of which the following is a specification.

Our invention relates to improvements in portable sectional floors.

The object of our invention is to provide a sectional floor which may be disposed in compact and convenient form for transportation and which may be quickly assembled in condition for use and as quickly dismantled into knock down condition for shipment.

A further object of our invention is to provide a structure which is cheaply made, which is strong and rigid after being assembled in operative condition, and which when assembled will present a smooth even floor surface.

The novel features of our invention are hereinafter fully described and claimed.

While our invention is susceptible of being embodied in various forms, we have, in the accompanying drawings, illustrated the preferred form of our invention.

Figure 1 is a plan view, partly broken away showing sections of our improved floor connected in operative relation to each other, a section being shown detached from those which are connected with each other. Fig. 2 is a vertical section on the line *a-b* of Fig. 1. Fig. 3 is a vertical section, enlarged, on the line *c-d* of Fig. 1. Fig. 4 is a vertical section, enlarged, on the line *e-f* of Fig. 1.

Similar characters of reference designate similar parts in the different views.

The floor comprises a plurality of sections provided with means for being detachably connected together. Each section comprises a rectangular frame having two horizontal side joists 1, two end joists 2 disposed against the ends of joists 1 to which they are rigidly secured by means of bolts 3 secured to the joists 1 and extending through the adjacent joists 2, and provided with nuts 4 bearing against the outer sides of the end joists 2.

Extending between the joists 1 are intermediate joists 5 having secured to them bolts 6 which extend through the adjacent joists 1 and are provided with nuts 7 bearing against the outer sides of the joists 1. Extending between the joists 1 and parallel with and adjacent to one of the end joists 2 is an intermediate joist 8 having secured to it bolts 9 which extend through the adjacent joists 1 and are provided with nuts 10 which bear against the outer sides of joists 1. Secured also to the joist 8 are bolts 11 which extend through the adjacent joist 2 and are provided with nuts 12 which bear against said joist.

Secured to the floor frame are floor boards 13 which are preferably nailed to the intermediate joists 5 and 8 of the frame and have one set of ends resting upon the joist 2 which is adjacent to the joist 8, the other set of ends of the floor boards 13 being secured to and extending beyond the other end joist 2.

Preferably the floor boards 13 have matching edges and ends, the ends being disposed in staggered relation to each other so as to break joints when the section is connected to another section.

When the floor is to be assembled in operative condition, the frames may be mounted upon vertical pillars 14, the sides of adjacent frames being disposed parallel with each other, and the adjacent ends of different frames being disposed parallel with each other, as shown in Fig. 1. When the frames are so arranged the projecting ends of the floor boards 13 of one frame are placed in matching engagement with the ends of the floor boards 13 which rest upon the end joist 2 connected to the joist 8 of the adjacent frame, the projecting ends of the floor boards also resting upon said end joist. Bolts 15 are then inserted through the end joists 2 which are adjacent to each other, said bolts having nuts 16 mounted thereon which bear against the inner side of one of said joists 2 and cause the two frames to be drawn tightly together so as to firmly retain the matching ends of the floor boards 13 of the two sections in engagement with each other.

The intermediate joists 8 are provided so as to support the adjacent end joists 2

against the strain placed upon them by the bolts 15. They also serve as joists to which the flooring 13 may be nailed, the joist 2 which supports the matching ends of the floor boards 13 being too narrow to afford secure means to which the boards may be nailed, inasmuch as the floor boards, as shown in Fig. 1, do not extend clear across the full width of said end joist.

The sides of the frames are also disposed parallel with each other and are connected by bolts 17 which extend through adjacent joists 1 and have mounted on them nuts 18 which bear against the inner sides of the joists 1. Before the nuts 18 are tightened intermediate floor boards 19 are mounted upon the joists 1 which are adjacent to each other and placed in matching engagement with the longitudinal edges of the adjacent floor boards 13. The nuts 18 are then tightened, thereby forcing the adjacent floor boards 13 tightly against the opposite edges of the intermediate floor board 19. It will be noted that the outer floor boards 13 of each section do not fully extend to the outer edges of the joists 1. This provides a bearing surface upon the upper side of each joist 1 for supporting an intermediate floor board 19. Neither do the boards 13 extend to the outer edge of the joist 2 which is next adjacent to the intermediate joist 8, thereby providing on the upper side of said joist 2 a surface for supporting the projected ends of the floor boards 13 of the adjacent section.

Any number of sections may thus be assembled to form a floor. To disassemble the floor it is but necessary to remove the nuts 16 and 18 after which the sections may be detached from each other and from the intermediate floor boards 19.

By securing the intermediate joists 5 and 8 to the side joists 1 by bolts 6 and 9 respectively, there is no danger of the side joists 1 being detached from the intermediate joists by the tension placed on the side joists by the clamping bolts 17. When the sections are detached, they may be stored in compact form.

We do not limit our invention to the structure shown and described as many modifications may be made within the scope of the appended claims, without departing from the spirit of our invention.

Having thus described our invention what we claim and desire to secure by Letters Patent, is:—

1. In a portable sectional floor, two floor sections spaced apart and comprising each a floor frame and floor boards secured to the frame, a detachable intermediate floor board resting upon said two frames and abutting at its longitudinal edges against

adjacent floor boards of said two sections, and means for detachably connecting to each other said two frames and for clamping the intermediate floor board against said adjacent floor boards.

2. In a portable sectional floor, two floor sections spaced apart and comprising each a floor frame having side joists and floor boards secured to the frame, two joists of said two frames being disposed parallel with each other, a detachable intermediate floor board resting upon said two joists of said two frames and abutting at its longitudinal edges against adjacent floor boards of said two sections, and bolts extending through said two joists and having nuts for detachably connecting together said two frames and for clamping the intermediate floor board against said adjacent floor boards.

3. In a portable sectional floor, two floor sections spaced apart and comprising each a floor frame and floor boards secured to the frame, a detachable intermediate floor board resting upon said two frames and at its longitudinal edges having a matching engagement with adjacent floor boards of said two sections, and means for detachably connecting to each other said two frames and for retaining the intermediate floor board engaged with said adjacent floor boards.

4. In a portable sectional floor, two floor sections spaced apart and comprising each a floor frame and floor boards secured to the frame, a detachable intermediate floor board resting upon said frames and at its longitudinal edges having a matching engagement with adjacent floor boards of the two sections, and a bolt having a nut and connecting said frames detachably with each other and retaining the intermediate floor board engaged with said adjacent floor boards.

5. In a portable sectional floor, two floor sections comprising each a floor frame and floor boards secured to the frame, the floor boards of one section having one set of ends projecting and resting upon the frame of the other section and abutting against the ends of the floor boards of the other section, the frames being spaced apart and means for detachably connecting to each other said frames and for clamping together the floor boards of the two sections.

6. In a portable sectional floor, two floor sections spaced apart and comprising each a floor frame and floor boards secured to the frame, one frame having an end joist, an intermediate joist parallel to the end joist and bolts connecting said two joists, the floor boards of the last named frame being secured to the intermediate joist and resting upon the end joist, the floor boards of the other section having one set of ends pro-

jecting and resting upon said end joist and  
abutting against the adjacent ends of the  
floor boards of the opposite section, and  
means for detachably connecting to each  
5 other said frames and for clamping to-  
gether the abutting ends of the floor boards  
of said sections.

In testimony whereof we have signed our

names to this specification in presence of  
two subscribing witnesses.

CHARLES TRAMILL.  
JAMES H. TRAMILL.

Witnesses:

WARREN D. HOUSE,  
R. E. HAMILTON.