E. MORRIS.

CONNECTING MEANS FOR FURNITURE SECTIONS.

APPLICATION FILED JULY 23, 1914.

1,257,097.

Patented Feb. 19, 1918.

2 SHEETS—SHEET 1.

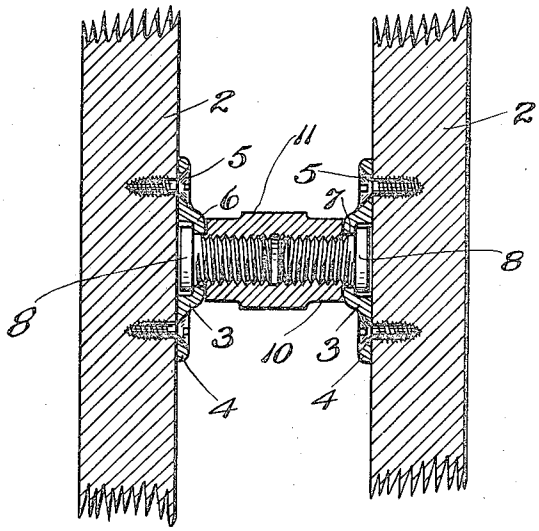


Fig. 1.

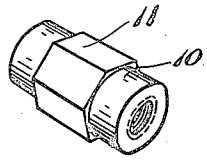


Fig. 2.

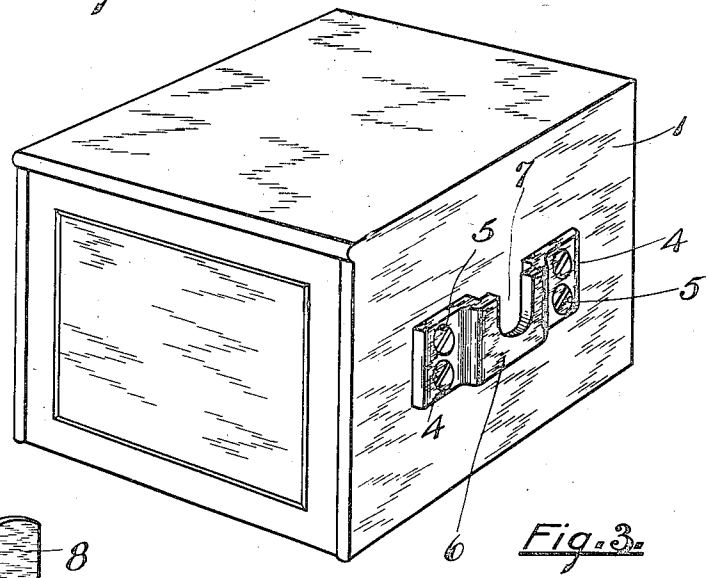


Fig. 3.

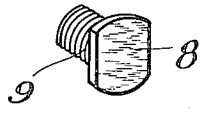


Fig. 4.

Witnesses

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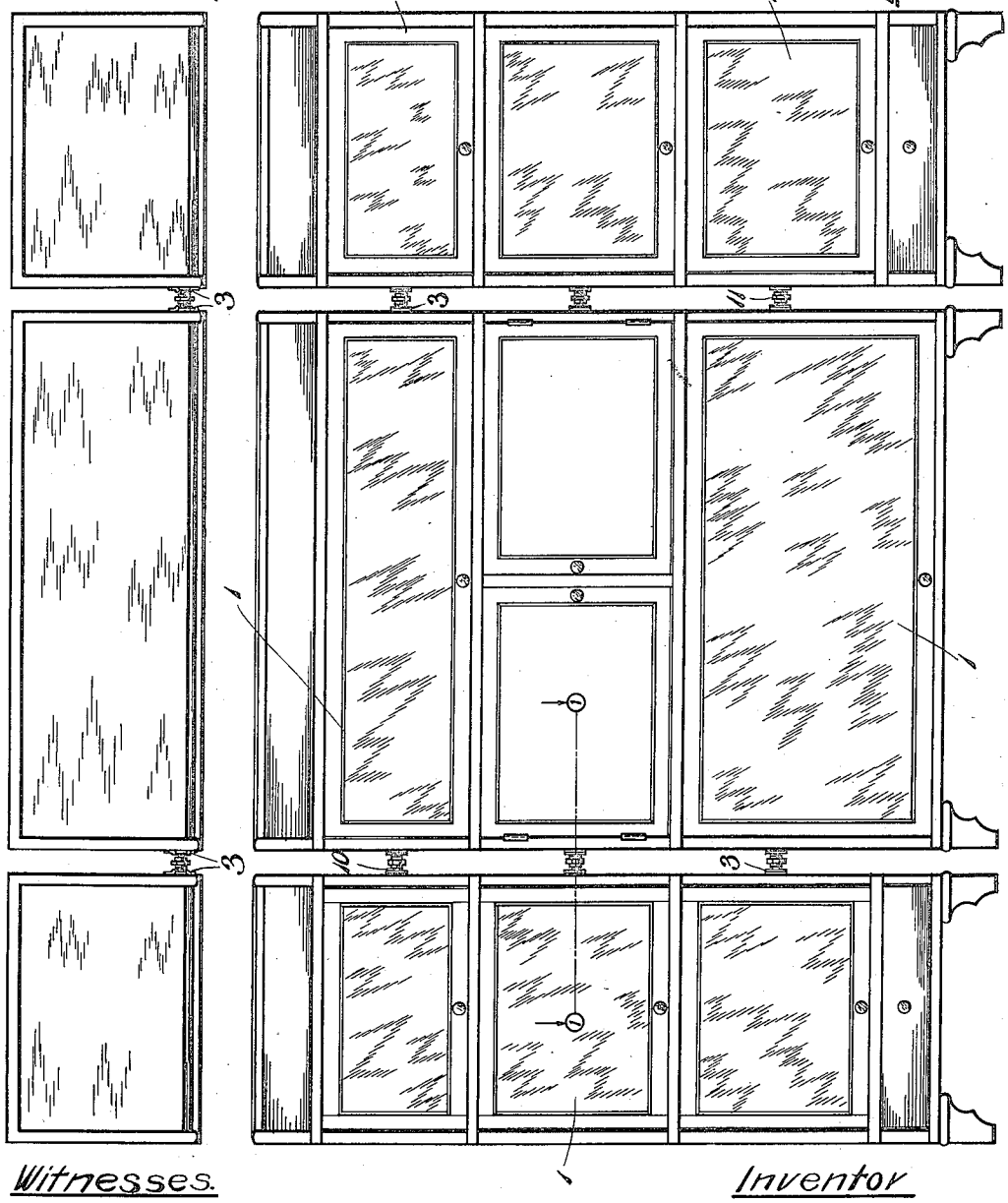
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2 SHEETS—SHEET 2.

Fig. 5.

Fig. 6.



Witnesses.

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UNITED STATES PATENT OFFICE.

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CONNECTING MEANS FOR FURNITURE-SECTIONS.

1,257,097. Specification of Letters Patent. Patented Feb. 19, 1918.

Application filed July 23, 1914. Serial No. 852,575.

To all whom it may concern:

Be it known that I, EDMUND MORRIS, a citizen of the United States of America, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Connecting Means for Furniture-Sections; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to connecting means for store furniture sections.

In the store furniture art, it has become advisable to construct the cases and shelving that are located alongside the walls of a store, in sections for ready handling and assembling and for ease in manufacture and transportation. Also by the use of sectional construction it is possible to obtain a great variety of completed designs by variously positioning the sections with reference to each other. Said sections are positioned one above the other in vertical series to any desired or required height, and similar vertical series or sections are then placed along the wall of a store adjacent to the ends of the first series until the wall space is filled. In the use of my invention, the adjacent ends of the various vertical series of sections are spaced a short distance apart, and my invention consists in the provision of a new and improved connecting means for detachably securing the adjacent ends of sections together, said means being secured detachably to and lying between the adjacent spaced apart ends of sections and serving to firmly connect them together.

The construction and use of my invention will be apparent from the following description, reference being had to the accompanying drawings in which,

Figure 1 is a horizontal section taken on the line 1—1, Fig. 6;

Fig. 2 is a perspective view of one of the elements of the connecting means;

Fig. 3 shows in perspective, the end of a section and the element permanently attached thereto used in connecting the sections together;

Fig. 4 is a perspective view of a headed and screw threaded stud, two of which are used in each connecting device;

Fig. 5 is a plan view of a series of vertical sections connected end to end; and

Fig. 6 is a front elevation thereof.

Like reference characters refer to like parts throughout the several views of the drawing.

In the embodiment of the invention shown in the drawings, a plurality of sections 1 are provided and placed one above the other as shown in Fig. 6 until any required height is reached. The sections are readily detachable one from the other at any time the vertical series is to be changed or moved. The ends 2 of said sections have secured thereto socket members 3 substantially midway between the top and bottom of the section and near the forward edge thereof, the ends 4 of the said socket members being perforated for the passage of screws or other suitable fastening means as shown at 5.

Each socket member has a central portion 6 bent outwardly and spaced a short distance from the end 2 of the section, and for a part of its depth the central portion is slotted as indicated at 7. The socket members are adapted to receive the studs forming a part of the connecting means, the heads 8 thereof lying between the ends of the sections and the portion 6 of the socket member while the threaded shanks 9 seat in the slots 7 as will be understood.

Each connecting device includes two of the headed and screw threaded studs 9 and an interiorly threaded sleeve or nut 10, the studs being inserted in the opposite ends of the nut. It will be observed that the opposite ends of the nut 10 are threaded oppositely, that is, at one end there are right hand threads and at the other end left hand threads so that with the studs held against turning, a turning movement of the nut 10 will serve to simultaneously draw the heads 8 toward the nut or carry said heads away from the nut 10, depending upon the direction of turning.

With a plurality of vertical series of sections located end to end as shown in Fig. 6 and with adjacent ends of sections spaced apart, the socket members 3 will be directly

opposite each other and adapted to receive the heads 8 of the studs. The heads 8 have parallel sides as shown in Fig. 4 which engaging against the sides of the socket member preclude any turning of the studs. It is evident, therefore, that the turning of the nut 10 may be accomplished to draw the heads 8 toward the ends of the nut and that with the progress of the turning movement, the sides or edges adjacent the slots 7 will be firmly retained between the heads 8 and the ends of the nut 10, thereby tying the ends of the spaced apart sections securely together.

With each section in a vertical series of sections connected in this manner to adjacent sections of similar vertical series, it will be clear that the built up structure as a whole will be in effect the same as though formed and built as a solid unit. The connecting means is easily operable for either attaching or disengaging the sections and the central part of the nut 10 is shown as formed with a section 11 adapted to be engaged by a wrench for the easy turning of the nut. The sections may be interchanged at any time after once placed together in a certain manner if such result is desired, my connecting means being easily reached and operated after the sections are connected together.

Various modifications in detail may be resorted to without departing from the invention which is defined in the appended claims and which includes all modifications in structure falling within their scope.

What I claim is:

1. In a device of the character described, sections positioned end to end with adjacent ends spaced apart, means for connecting the ends of sections together comprising socket members secured in fixed relation to the adjacent ends of said sections, a connecting device spacing the ends of the sections apart, said device including a pair of threaded studs having heads detachably seated in the socket members and an interiorly threaded sleeve or nut receiving the studs at opposite ends of the sleeve, substantially as described.

2. In a device of the character described, sections positioned end to end with adjacent ends spaced apart, a socket member attached to the end of each section, said member having a central portion spaced a distance from the end of the section and slotted at the upper edge thereof for a portion of its depth, and a connecting device lying between the sections and having a head at each end seated in said members with the heads between the section ends and the central portions of the socket members, and the parts of the connecting device adjacent the heads received by the slotted central portions of the socket members substantially as described.

3. In a device of the character described, sections located end to end and with adjacent ends spaced apart, socket members fixedly attached one to each end of the adjacent sections, said socket members including a portion spaced a distance from the end of its attached section and having a slot therein, a connecting device comprising a central nut interiorly threaded in opposite directions from opposite ends thereof and a headed stud inserted in each end of the nut, said connecting device being seated between the socket members with the heads of the studs between the section ends and the outstanding portions of the socket members and the nut located between the socket members whereby on turning the nut the socket members may be drawn toward and bound between the ends of the nut and the heads of the studs, substantially as described.

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

EDMUND MORRIS.

Witnesses:

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FRANK E. LIVERANCE, Jr.