

108-107

DRAFTSMAN

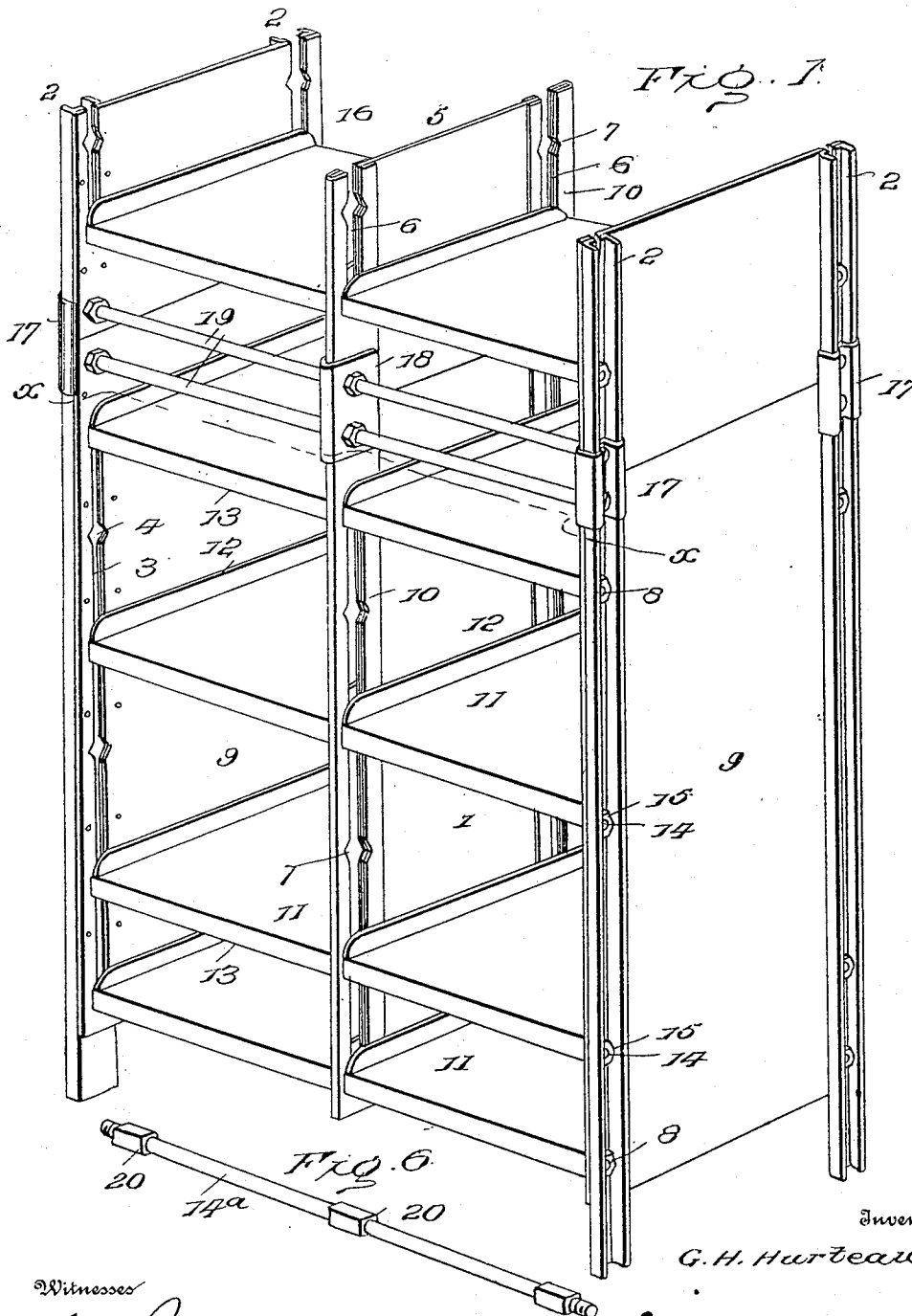
No. 869,491.

PATENTED OCT. 29, 1907.

G. H. HURTEAU.
SHELVING.

APPLICATION FILED AUG. 21, 1907.

2 SHEETS—SHEET 1.



Witnesses

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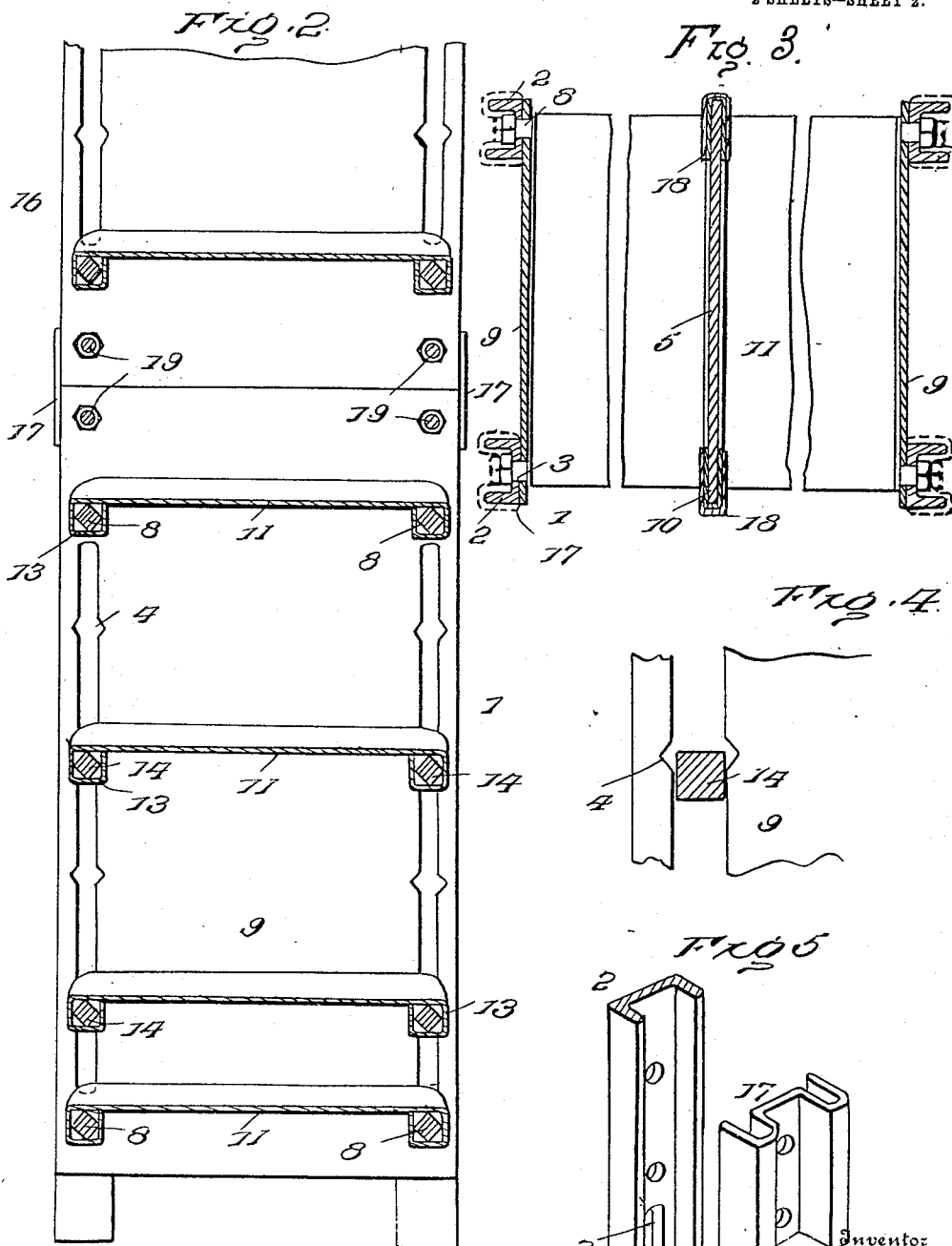
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UNITED STATES PATENT OFFICE.

GEORGE H. HURTEAU, OF MONTGOMERY, ILLINOIS.

SHELVING.

No. 869,491.

Specification of Letters Patent.

Patented Oct. 29, 1907.

Application filed August 21, 1907. Serial No. 389,534.

To all whom it may concern:

Be it known that I, GEORGE H. HURTEAU, a citizen of the United States, residing at Montgomery, in the county of Kane and State of Illinois, have invented certain new and useful Improvements in Shelvings, of which the following is a specification.

This invention has for its object an improved construction of sectional shelving, the parts of which are preferably formed of steel so as to be light, strong, and fire-proof, and which parts may be easily manufactured and assembled, in which the shelves may be easily adjusted to different relative heights, and which is sectional in character, so that it may be built up to the required elevation.

With this and other objects in view as will more fully appear as the description proceeds, the invention consists in the construction and arrangement of the parts that I shall hereinafter fully describe and then point out the novel features in the appended claims.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view of my improved shelving; Fig. 2 is a vertical sectional view thereof; Fig. 3 is a longitudinal sectional view on the line $x-x$ of Fig. 1; Fig. 4 is an enlarged sectional view showing the position of the rod before being turned into its seat; Fig. 5 is a detail view of one of the clips; Fig. 6 is a view of a slight modification.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

My improved shelving is sectional and comprises any desired number of main sections 1 of any desired height, width, and thickness. Each section is preferably constructed throughout of steel or the like so as to combine lightness with strength and so as to be fire-proof, and comprises corner standards or posts 2 each of which may be formed of angle material or channel material with the channel facing outwardly, each of said posts being formed with the longitudinally extending slot 3, and at predetermined intervals with opposing notches in the walls of the slot. These notches may be V-shaped, if desired, and are designated 4. The said section also embodies one or more vertically extending partitions 5 formed with longitudinally extending front and rear slots 6 in alinement with the slots 3 and with notches 7 corresponding to the notches 4.

Upper and lower tie rods 8 extend through preferably solid portions of the corner posts and partition or partitions, and also through the sheet metal sides 9 that are riveted or otherwise secured to the inner sides of the posts or standards 2.

10 designates front and rear beading strips which are preferably formed of metal sheets doubled longitudi-

nally upon themselves and embracing the edges of the partition so as to reinforce the latter.

Any desired number of sheet metal shelves 11 are mounted between the sides 9 and partition 5, said shelves being preferably provided with side flanges 12 and curled lips 13, front and back. These lips encircle the supporting bars 14 slipped endwise therein and removable, as clearly indicated in the drawings.

The bars 14 may be square to fit approximately in the slots 3 through which they extend at their ends, so that the shelves may be adjusted up or down by sliding the rod along the slots, and they may be held securely at different elevations by turning them axially to cause their edges to fit and rest within the opposing notches 4. The supporting bars may be clamped securely in place by means of nuts 15 screwing on the outer threaded ends of the bars and lying within the channels of the corner posts.

In order to provide means for building up the shelving to the required height, I may employ any desired number of top sections 16 which are constructed substantially like the main section except that they are preferably of a less height and embody only one or two shelves, so that they may be used by themselves as a low bench or stand.

In order to secure the top section on the main section, I preferably employ W-shaped corner clips 17 which fit with their cross bars in the channels of the posts at the joint between sections, overlapping the adjoining ends of the corner posts and are connected thereto by means of coupling rods 19 which extend through the clips and also through U-shaped partition clips 18 embracing the edges of the adjoining partitions, as shown.

Fig. 6 illustrates a modification in which the supporting bars 14^a are shown as round and mounted within oblong sleeves 20, said sleeves being movable longitudinally in the slots 3 when turned into alinement therewith, and being held in the notches when the sleeves are turned so as to extend crosswise of the slots.

From the foregoing description in connection with the accompanying drawings, it will be seen that I have provided a fire-proof shelving of light and strong structure, in which the shelves may be adjusted to different relative heights without taking the rods out of the shelving or rack, in which the height of the shelving may be increased whenever desired by the addition of one or more top sections or racks secured upon the main racks by simple means that may be easily manipulated, in which the top sections or racks are preferably of such height as to render them susceptible to use as stands or benches when detached, in which the fronts or backs of the shelves may be raised at will so as to produce a slanting bin rack by having a lip on the back of the shelves extending upwardly the required height and in which the partitions are effectively rein-

forced by the beading strips so that they may be made of comparatively light metal, and in which, by the use of the clips on the supporting rods as well as the coupling rods, the rack or shelving will be capable of with-
 5 standing very heavy loads without any liability of sagging or breaking down.

Having thus described the invention, what is claimed as new is:

1. A rack section of the character described, comprising vertically slotted corner posts formed with opposing notches at predetermined intervals in the side walls of the slots, sides secured to said posts, bars extending from side to side of the rack and extending through the slots, said bars being so constructed as to be freely movable in one
 10 position, axially considered, within the slots, and to be engaged in said notches when turned from such position, and shelves provided at front and back with lips encircling said bars.
2. A rack section of the character described, comprising vertically slotted corner posts formed with opposing notches at predetermined intervals in the side walls of the slots, sides secured to said posts, bars extending from side to side of the rack and extending through the slots, said bars being so constructed as to be freely movable in one
 20 position, axially considered, within the slots, and to be engaged in said notches when turned from such position, and shelves supported on said bars.
3. A rack section of the character described, comprising vertically slotted corner posts formed with opposing notches at predetermined intervals in the side walls of the slots, sides secured to said posts, bars extending from side to side of the rack and extending through the slots, said bars being so constructed as to be freely movable in one
 30 position, axially considered, within the slots and to be engaged in said notches when turned from such position,
 35 gaged in said notches when turned from such position,

shelves supported on said bars, and a partition intermediate of the sides of the rack and provided with slots and notches corresponding to the slots and notches of the corner posts.

4. A rack section of the character described, comprising vertically slotted corner posts formed with opposing notches at predetermined intervals in the side walls of the slots, sides secured to said posts, bars extending from side to side of the rack and extending through the slots, said bars being so constructed as to be freely movable in one
 40 position, axially considered, within the slots, and to be engaged in said notches when turned from such position, shelves supported on said bars, a partition intermediate of the sides of the rack, and beading strips embracing the front and rear edges of the partition, said strips and partitions being formed with slots and notches corresponding to the slots and notches of the corner posts.

5. Shelving of the character described, comprising a plurality of superposed sections embodying channeled corner posts, W-shaped clips fitting the channel of said posts
 55 with their ends embracing the edges of the posts and overlapping the adjoining ends thereof, and coupling rods connecting said clips to the posts.

6. Shelving of the character described, comprising a plurality of superposed sections embodying channeled corner posts, W-shaped clips fitting the channel of said posts with their ends embracing the edges of the posts and overlapping the adjoining ends thereof, U-shaped clips, the sections embodying partitions, the adjoining edges of which said last named clips embrace, and tie rods connecting
 60 said clips to the posts and partitions.
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In testimony whereof I affix my signature in presence of two witnesses.

GEORGE H. HURTEAU. [L. s.]

Witnesses:

EDW. L. LYON,
 E. E. BOUSLOUGH.