

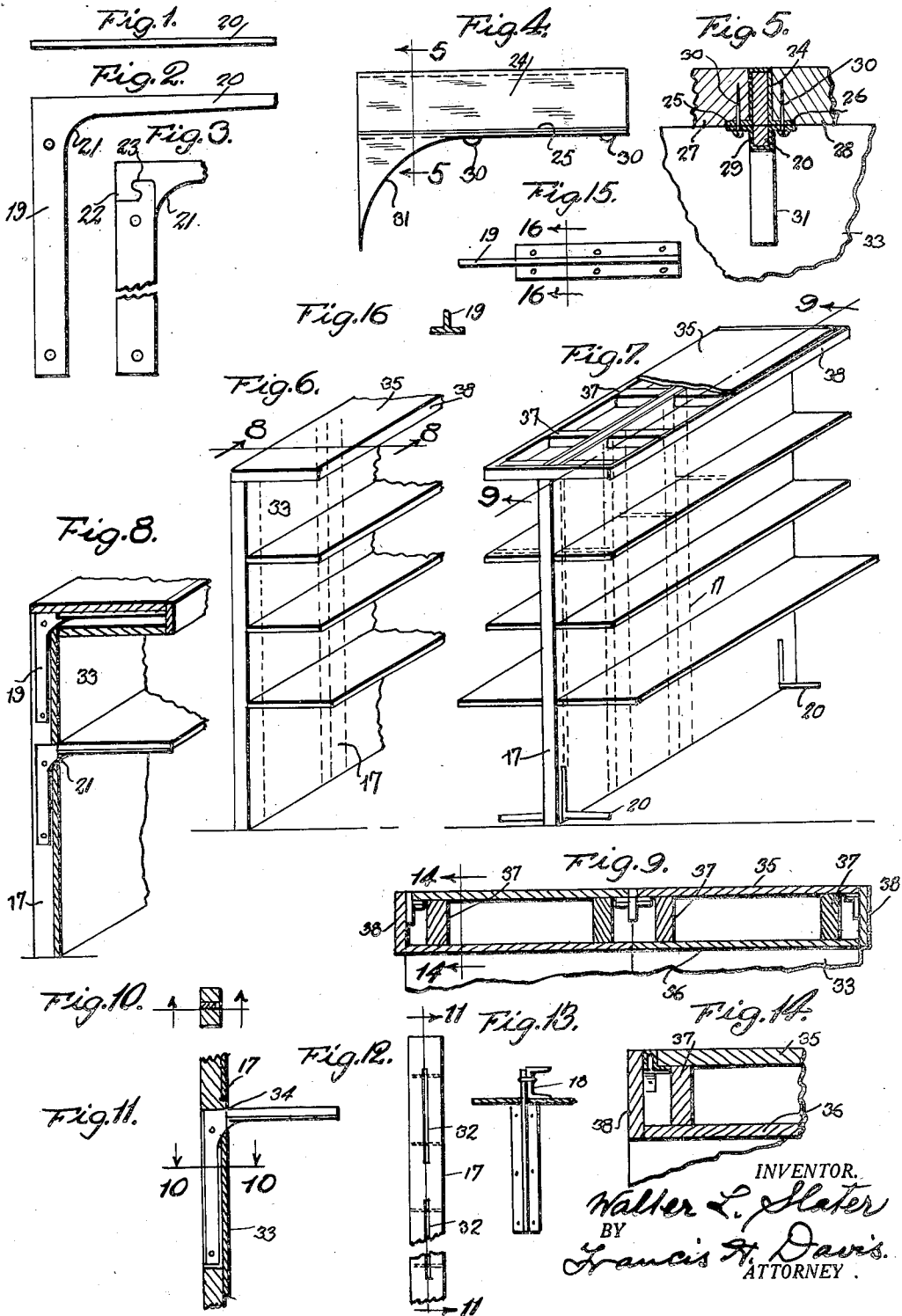
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SHELVING BRACKET AND SYSTEM OF SHELVING

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SHELVING-BRACKET AND SYSTEM OF SHELVING

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4 Claims. (Cl. 248—18)

This invention relates to shelving brackets and system of shelving, and more particularly to a novel arrangement of shelving adapted to sustain relatively great weight, and at the same time provide for free longitudinal movement of goods upon the shelves without interfering partitions.

My present invention results from the need to provide more attractive display means in stores, groceries and other places, especially, in "cash and carry" establishments where the customers desire a neat and orderly arrangement of their prospective purchases combined with ability to secure, or inspect them.

The objects of my invention comprise the following desiderata:—

To provide an arrangement of shelving which may be manufactured as portable units adapted to be attached together end to end so as to extend the series for any desired length.

To provide a novel bracket having a horizontal member carrying lateral members to support the shelf ends and a preferably concealed, blade-like vertical member carrying said horizontal member in line with the narrow edge thereof.

To provide means whereby, as a saving in material, said horizontal and vertical members may be demountably secured together instead of being stamped out of stock the full width of the bracket.

To provide an embodiment in which the shelf-supporting elements are detachable from said horizontal member, together with further objects and advantages which will hereafter appear, be particularly pointed out in the claims and illustrated in the drawing attached hereto and made part hereof, in which,—

Figure 1 is a top plan view of the bracket per se according to my invention.

Figure 2 is a side elevational view of Figure 1.

Figure 3 is a view similar to Figure 2 showing demountable means for the vertical and horizontal members.

Figure 4 is an assembled view of the saddle shelf-support shown on a larger scale.

Figures 5 is a section taken on the line 5—5 of Figure 4 showing positioned shelf ends.

Figure 6 is an isometrical projection of a single shelf-unit according to my invention.

Figure 7 is an isometrical projection of a double shelf-unit.

Figure 8 is a section taken on the line 8—8 of Figure 6.

Figure 9 is a section taken on the line 9—9 of Figure 7.

Figure 10 is a section taken on the line 10—10 of Figure 11.

Figure 11 is a section taken on the line 11—11 of Figure 12, showing the bracket assembled.

Figure 12 is an elevational front view of an upright member slotted to receive the brackets.

Figure 13 is a plan view of my bracket attached to the side of a vertical channel support.

Figure 14 is an enlarged detail of the construction adjacent to the left of the line 14—14 of Figure 9.

Figure 15 shows another embodiment of said horizontal member, and

Figure 16 is a section taken on the line 16—16 of Figure 15.

Similar reference indicia refer to similar parts throughout the several views.

To carry out my invention in its simplest form I provide certain upright members to which my brackets are attached in various horizontal planes; said uprights being suitably spaced apart according to the load the shelving is to carry.

Figure 6 illustrates a unit of single shelving adapted to be placed against a wall; whereas, Figure 7 shows a unit having shelving on both sides thereof suitable to be placed in an aisle.

Said uprights may be scantlings as (17) or of any suitable structural steel form, for instance, the steel channel (18), shown in Figure 13.

The bracket

This element is susceptible of different embodiments without departing from the spirit of my invention; which is also true of the means whereby said bracket is attached to said upright members.

As embodied in Figures 1 and 2, said bracket is represented as being of flat, relatively thin stock, preferably steel. It comprises the vertical limb (19) and the horizontal limb (20). The interior corner (21) is preferably rounded to impart additional strength and present a graceful appearance. The under portion of said horizontal member tapers upwardly from said round to the outer end thereof.

As embodied in Figure 3 said respective limbs are shown as separate entities joined together by a demountable interlocking joint comprising the respective complementary members (22) and (23); an arrangement by which said bracket may be stamped with less waste and is more convenient for shipment.

In the above forms wherein the entire bracket is of blade-like construction I provide the saddle

(24) shown in Figure 4, which rides on said horizontal limb and provided with the flanges (25) and (26) to carry the shelf ends (27) and (28) all well shown in Figure 5, together with the sheathing member (29) secured to the under side of said flanges by Parker screws as (30) which also secure said shelf ends, an arrangement which hides all joints and leaves nothing of the bracket assembly exposed save the curve (31) and said sheath member, which being of very thin stock is scarcely noticeable, and when embellished as by oxidation or electro-plating imparts an artistic appearance to the whole which is very desirable for display purposes in certain establishments such as art studios, libraries, jewelers, etc.

A second embodiment of said horizontal member is shown in Figures 15 and 16, wherein an inverted T structure is used.

The vertical limb (19) may be secured to the side of an upright as shown in Figure 8, or mounted in a slot (32) shown in Figure 12.

It will be noted that the panel (33) is secured to the front of said upright members, the slot indicated at (34) being notched out to fit snugly at each side said horizontal limb.

It will be observed however, by reference to Figures 7, 8, 9 and 14 that all the brackets of the topmost shelf (35) are entirely concealed by the board (36) fastened beneath the spacers (37) which extend beneath said top shelf, the whole being boxed in by a casing as (38), which, although shown plain, may well be a molding of any desired form.

To make provision for the respective end brackets to fit snugly against the respective end casings, the adjacent flange (25) or (26) may be hammered flat up against the adjacent side of said saddle; when an additional unit is to be added the corresponding end casing is removed and the flange returned to the horizontal.

It should be stated that in the form shown in Figure 7 the panel (33) may be omitted, thereby

permitting, not only free traverse of goods lengthwise of the shelving, but also crosswise traverse to opposite shelves.

It is believed that my invention and the advantages to be gained by the use thereof are fully explained. In reducing the invention to practice, certain minor features in construction, combination and arrangement of parts may necessitate alteration, to which the patentee is entitled, providing such alteration is comprehended in the scope of what is claimed.

What I claim is:—

1. A bracket comprising blade-like vertical and horizontal limbs, a saddle member of inverted U-shape carried by the horizontal limb with the upper end of the saddle resting on the limb, and lateral flanges on the lower side edges of the saddle member adapted for the support of shelf-board ends with the upper edge of the saddle and shelf-boards in the same horizontal plane.

2. A bracket having a horizontal limb and a flanged saddle for the support of shelf board ends, and a sub-attached sheath member arranged to inclose the underside of the horizontal limb below the flanged saddle and means for securing the two saddles and shelf board ends together.

3. In a shelving system having a bracket comprising vertical and horizontal limbs reenforced at the inner corner and adapted for mounting with the vertical limb concealed and the horizontal limb and corner reenforcement exposed and a sheath attached to the underside of the horizontal limb and overlying the corner reenforcement.

4. Supporting means for shelving comprising a bracket having a vertical and a horizontal limb of blade-like formation, said vertical limb adapted to be secured to the lateral face of an upright support and detachable means carried by the horizontal limb for receiving and supporting store shelving.

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