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E. O. BULMAN

1,897,187

SHELVING APPLIANCE

Filed June 3, 1929

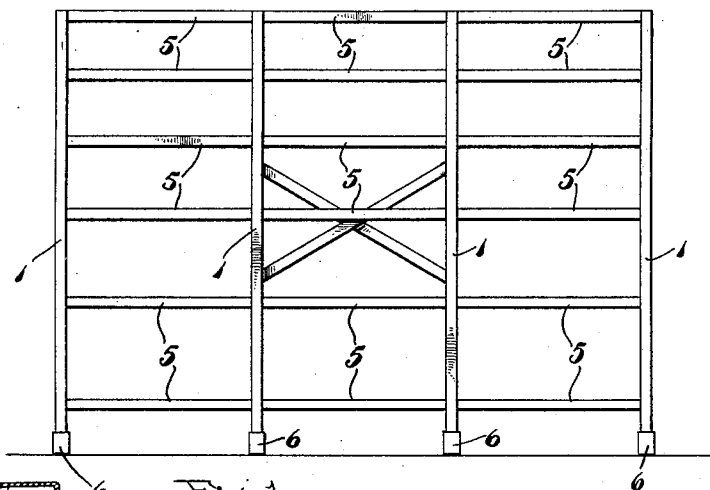


Fig. 1.

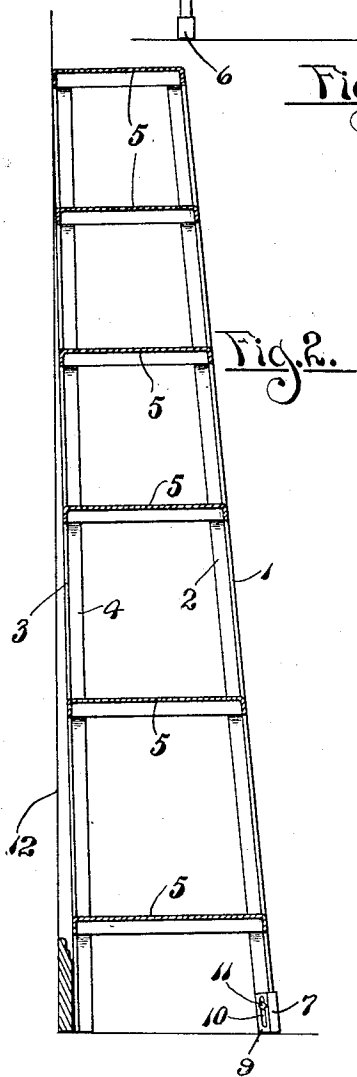


Fig. 2.

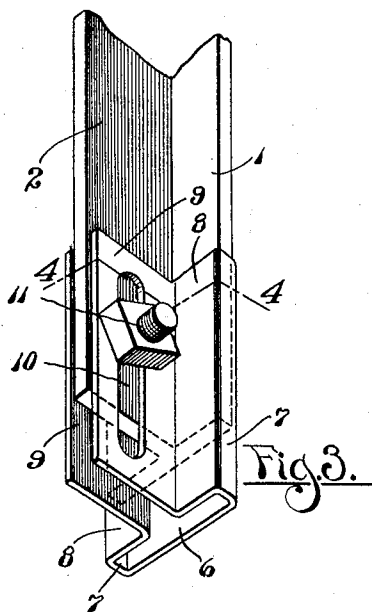


Fig. 3.

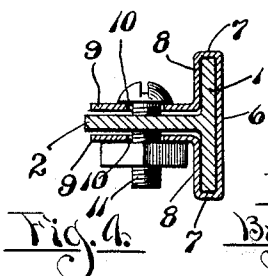


Fig. 4.

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UNITED STATES PATENT OFFICE

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SHELVING APPLIANCE

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This invention relates to an appliance adapted to be attached to shelving constructions, both for the purpose of properly leveling the shelving should a floor on which it stands be uneven or depressed at certain portions below that of others, and for tilting the shelving to the rear to insure against its tipping forward at any time and at the same time eliminate any necessity of permanently securing the shelving to the wall. More specifically, it is an object and purpose of the present invention to provide a simple, readily attached and quickly and easily adjustable foot-member to the legs of shelving construction for securing the proper leveling and adjustment of the shelving and for rearwardly tilting the same. The rearward tilting which insures against any undesired forward tipping of the shelving when it is weighted with merchandise is of advantage for the reason that the shelving remains a detached fixture and does not become a part of the realty, which condition occurs upon securing the shelving to the wall of the store to which it is placed.

An understanding of the invention for the attainment of the ends stated may be had from the following description taken in connection with the accompanying drawing, in which,

Fig. 1 is a front elevation of a section of shelving having the appliance of my invention connected thereto.

Fig. 2 is a transverse vertical section through the shelving, the view being somewhat enlarged and illustrating the rearward tilting of the shelving through the attachment of said appliances.

Fig. 3 is a fragmentary enlarged perspective view showing the manner in which the appliance is adjustably and yet securely attached in position at the lower end of a supporting leg of the shelving, and

Fig. 4 is a horizontal section on the line 4-4 of Fig. 3, the section being taken immediately above the securing bolt.

Like reference characters refer to like parts in the different figures of the drawing.

In the construction of the shelving, front and rear legs for supporting the same are

disposed at spaced apart distances. Said legs are preferably of T-bar form the front legs having front flanges 1 and rearwardly or inwardly extending tongues 2 integral with the flanges 1, while the rear legs are reversed in position, the flanges 3 being at the rear and the tongues 4 extending forwardly. A plurality of sheet metal shelves 5 are disposed in spaced relation between the various pairs of supporting legs in the length of the shelving which is to be installed, and are secured to the legs in any desired and suitable manner. Preferably the front and rear legs converge somewhat toward their upper ends and the upper shelves are correspondingly decreased in width.

The appliance which is used in conjunction with this shelving is formed from a single length of sheet metal and bent to provide a front or face section 6 from which narrow sections 7 are bent rearwardly and then turned inwardly, providing other sections 8 which extend toward each other and are parallel to the face 6, terminating in inwardly bent parallel flanges 9. This provides a foot-member which may be slipped over the lower end of any of the supporting legs of the shelving and embrace the T-bar form thereof, as fully shown in Figs. 3 and 4. The flanges 9 are formed with elongated vertical slots 10 and a bolt 11 is passed through the tongue or web 2 near the lower end of each of the front supporting legs of the shelving, passing through the slots 10 and being equipped with a nut which may be loosened or tightened in the usual manner.

When the appliance described is placed over the lower end of a supporting leg of the shelving and the nut on the bolt 11 is loosened, it may be adjusted to different positions within the range permitted by the length of the slots 10. On tightening the nut the two flanges 9 are drawn toward each other and toward the opposed sides of the tongue 2. In practice the distance between the inner sides of the flanges 9 is greater than the thickness of the tongue 2 so that when the nut is tightened the appliance is clamped snugly against the front face portion 1 and will remain in any position to which it has

been adjusted even though the weight of merchandise on the shelving is of a considerable amount.

It is evident that an appliance of this kind may be placed at the lower end of all of the front supporting legs of the structure, and of course, they may also be placed at the lower end of the rear legs if it is necessary. It is desirable many times that the lower end of all of the legs be supplied with the appliances in order to adjust the same to conform with irregularities or unevenness in the floor, and to locate the shelves in substantially horizontal or level position.

It is particularly desirable that the appliance at the lower ends of the front legs of the structure shall be adjusted so as to tilt the shelving to the rear and bring the upper rear portion of the shelving snugly against the wall, the line of which is indicated at 12 of Fig. 2. The shelving thereupon engages frictionally with the wall at its upper rear portion and there is no danger of its changing position after it has been properly installed, nor will it tilt forward no matter how the merchandise may be located on the shelves. This result is attained without the necessity of fixing the shelving to the wall of the store so that the shelving remains a removable fixture and does not become a part of the real estate, and may be moved from the store should any change in location take place, the shelving remaining the property of the storekeeper and not becoming the property of the owner of the building.

The description described is simple from the manufacturing standpoint, is easily attached and adjusted, but serves the purposes for which it is designed in a particularly satisfactory manner. The invention is defined in the appended claims and is to be considered comprehensive of all forms of structure coming within their scope.

I claim:

1. In combination with a supporting leg T-shaped in cross section, of a foot member formed of sheet metal to embrace and slidably engage the lower end of the leg and including spaced apart flanges located one at each side of the web of said leg, each of said flanges having an elongated slot therein, and a bolt passing through said slots and the web of said leg to draw said flanges toward said web and clamp the foot member tightly upon the leg in any position to which adjusted.

2. In combination with a supporting leg T-shaped in cross section and having a hole near one end through its web, of an adjustable foot-member comprising an integral plate of sheet metal bent into form to provide a face section, two edge sections bent at right angles from the vertical edges of the face section and extending therefrom for a short distance, and then bent inwardly toward each other and parallel to said face

section and terminating in two spaced apart flanges located at right angles to said face section, each of said flanges having an elongated vertical slot therein, said slots being adapted to be in alinement with the hole through the web of the leg and said flanges adapted to be slightly spaced from the web of said leg and bolt means extending through said slots and hole for the purpose described.

In testimony whereof I affix my signature.
ELVAH O. BULMAN.

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