

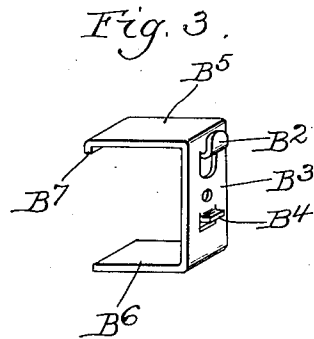
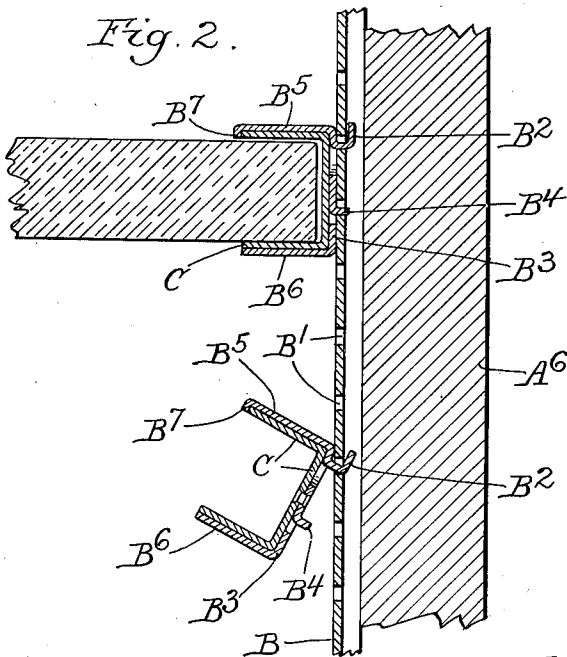
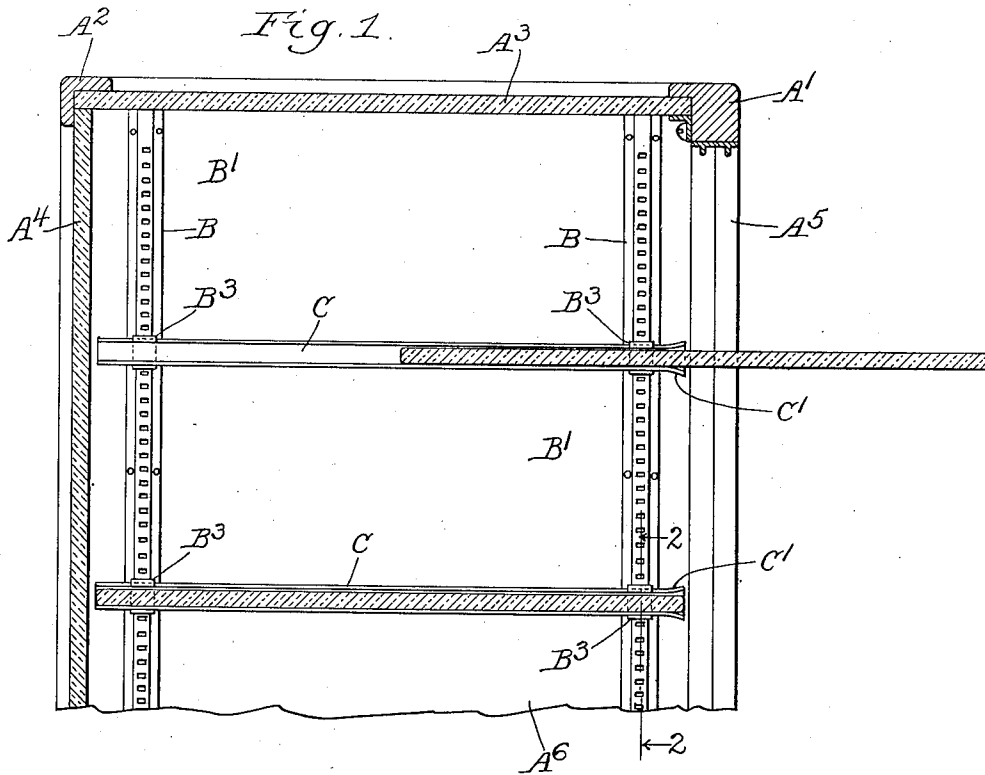
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W. T. SHERER

ADJUSTABLE SHELF SUPPORT

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UNITED STATES PATENT OFFICE.

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ADJUSTABLE SHELF SUPPORT.

Application filed February 5, 1923. Serial No. 616,957.

To all whom it may concern:

Be it known that I, WILLIAM T. SHERER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Adjustable Shelf Supports, of which the following is a specification.

My invention relates to improvements in attachments for supporting shelves in show cases and has for particular object to provide a shelf support which will permit a shelf to be slid into and out of the show case without interfering with the adjustment of the support and without disturbing the articles supported or displayed on the shelf. Another object is to provide an adjustable guide or support for the shelf, which will permit withdrawal of the shelf without interfering with its support and which will hold the shelf, when partially withdrawn, in its normal plane. Another object is to provide for an adjustable guide and support adjustable to different sizes of shelves and to different locations of the shelf supporting members. Other objects will appear from time to time in the course of the specification and claims.

I illustrate my invention more or less diagrammatically in the accompanying drawings wherein:

Figure 1 is a section through a show case with my shelf support in use.

Figure 2 is a section on line 2—2 of Figure 1.

Figure 3 is a detail view of one of the shelf track supporting members.

Like parts are indicated by like characters throughout the specification and drawings.

A¹, A² are the longitudinal corner frame elements of a show case. A³ is the top glass of the show case and A⁴ is the front glass thereof. A⁵ are sliding doors closing the rear of the show case and A⁶ is an end or intermediate transverse panel. Mounted on said panel are the vertically disposed perforated ladders B, B having the spaced perforations B¹, B¹ which are adapted to be engaged by the upwardly turned lugs B² on the track support B³. The small lugs B⁴ beneath the lug B² engage the apertures in the ladder, next beneath those engaged by the lugs B².

The support B³ has outwardly projecting arms or flanges B⁵, B⁶ at its top and bottom respectively, the upper flange B⁵ terminating

in a downwardly turned lip B⁷, the purpose of which will later appear.

C is a channel iron or track, the rear end of which is preferably opened or flared as at C¹ to permit easy insertion of the shelf edge. When my invention is used as in Figure 1, the channel C is mounted in two of the supporting members B³, one of them being preferably secured against relative movement along the channel and the other being slidable therealong, thus permitting the channel to be applied to show cases in which the ladders B, B are separated by varying distances.

It will be realized that while I have illustrated an operative device, many changes might be made in the size, shape, number and disposition of parts without departing from the spirit of my invention. I therefore wish my description and drawings to be taken as in a large sense diagrammatic.

The use and operation of my invention are as follows:

In a show case of relatively large depth in which a number of shelves are used, it is often desirable to have access to articles in the front of the shelves. Where the shelves are fixed this is difficult without disturbing the entire contents of the shelf and I therefore provide a means for easily removing shelves without in any way tilting the shelves and disturbing the contents thereof. In using my invention, a salesman behind the counter simply pulls out a shelf along the tracks or channels in which it is supported, takes out the desired article or rearranges the contents of the shelf, and returns it easily to place.

If desired, the track element may be held against longitudinal movement simply by the spring of the supports or clips, but as a general rule it is preferable to secure one of the supports to the track, by brazing, punching or any other suitable means. There is then no chance of the track being withdrawn with the shelf, with a resultant dropping or tilting of the shelf. The second support being slidable along the track, the whole assembly may be applied to a counter regardless of variations of distance between the apertured ladder or other holding means. The downwardly turned lip of the top arm of the support or clip prevents the track from sliding forwardly out of the supports when the shelf is moved. The track is locked

against longitudinal movement by the engagement of the lugs on the support with the apertures of the ladder. When the shelf is removed, the track and the support may be removed from the ladders by an upward tilting movement which permits the upwardly turned lug to be withdrawn from the ladder apertures. This movement is impossible when the shelf is in place, only a very slight vertical play being then possible, depending upon the relative thickness of the lugs and the height of the ladder apertures.

The track being locked in relatively fixed horizontal position, the shelf can be withdrawn almost to the limit of its width without tilting or tipping. As a result, the user gains access to articles placed on the front of the shelf and the entire area of the shelf is made convenient for display purposes.

The presence of the track or channel makes the setting up of the shelf more simple, since by inspection of the channel one can guard against its being inclined, thereby insuring that all four corners of the shelf will be supported at the same height.

I claim:

1. An adjustable shelf support comprising a plurality of adjacent supporting elements, holding members vertically adjustable upon each of them and a shelf supporting track mounted in said holding members, said track being secured against longitudinal movement in relation to one of said holding members and being in slidable contact with the other of said members.

2. An adjustable shelf assembly comprising a plurality of adjacent ladders, each provided with vertically aligned apertures, holding brackets adapted to penetrate and be supported by said apertures, bracket arms projecting forwardly therefrom, a shelf supporting track supported between said arms, and a shelf slidably supported by said track.

3. An adjustable shelf support comprising a plurality of adjacent ladders, each provided with vertically aligned apertures, holding brackets adapted to penetrate and

be supported by said apertures, bracket arms projecting forwardly therefrom, and a shelf supporting track supported between said arms, said track being secured against longitudinal movement in relation to one of said holding members and being in slidable contact with the other of said members.

4. An adjustable shelf support comprising a plurality of adjacent ladders, each provided with vertically aligned apertures, holding brackets adapted to penetrate and be supported by said apertures, bracket arms projecting forwardly from the top and bottom thereof, a shelf supporting channel gripped between said arms, and a downwardly depending lip along the outer edge of the upper of said arms, and in engagement with the upper flange of said channel.

5. An adjustable shelf assembly comprising a plurality of adjacent ladders, each provided with vertically aligned adjusting apertures, holding brackets adjustable thereupon adapted to penetrate and be supported by said apertures, shelf supporting channels mounted on said brackets and shelves slidably supported in said channels, said channels being secured against longitudinal movement in relation to one of said brackets and being in sliding contact with another of said brackets.

6. An adjustable shelf assembly comprising a plurality of adjacent ladders, each provided with vertically aligned adjusting apertures, holding brackets adjustable thereupon adapted to penetrate and be supported by said apertures, gripping flanges projecting forwardly from the tops and bottoms of said brackets, shelf supporting channels gripped between said flanges, and shelves slidably supported in said channels, said channels being secured against longitudinal movement in relation to one of said brackets and being in sliding contact with another of said brackets.

Signed at Chicago, county of Cook, and State of Illinois, this 27th day of January, 1923.

WILLIAM T. SHERER.