No. 880,827. PATENTED MAR. 3, 1908.

A. D. RESLER.

SHOW CASE.

APPLICATION FILED MAY 14, 1907.

2 SHEETS—SHEET 1.

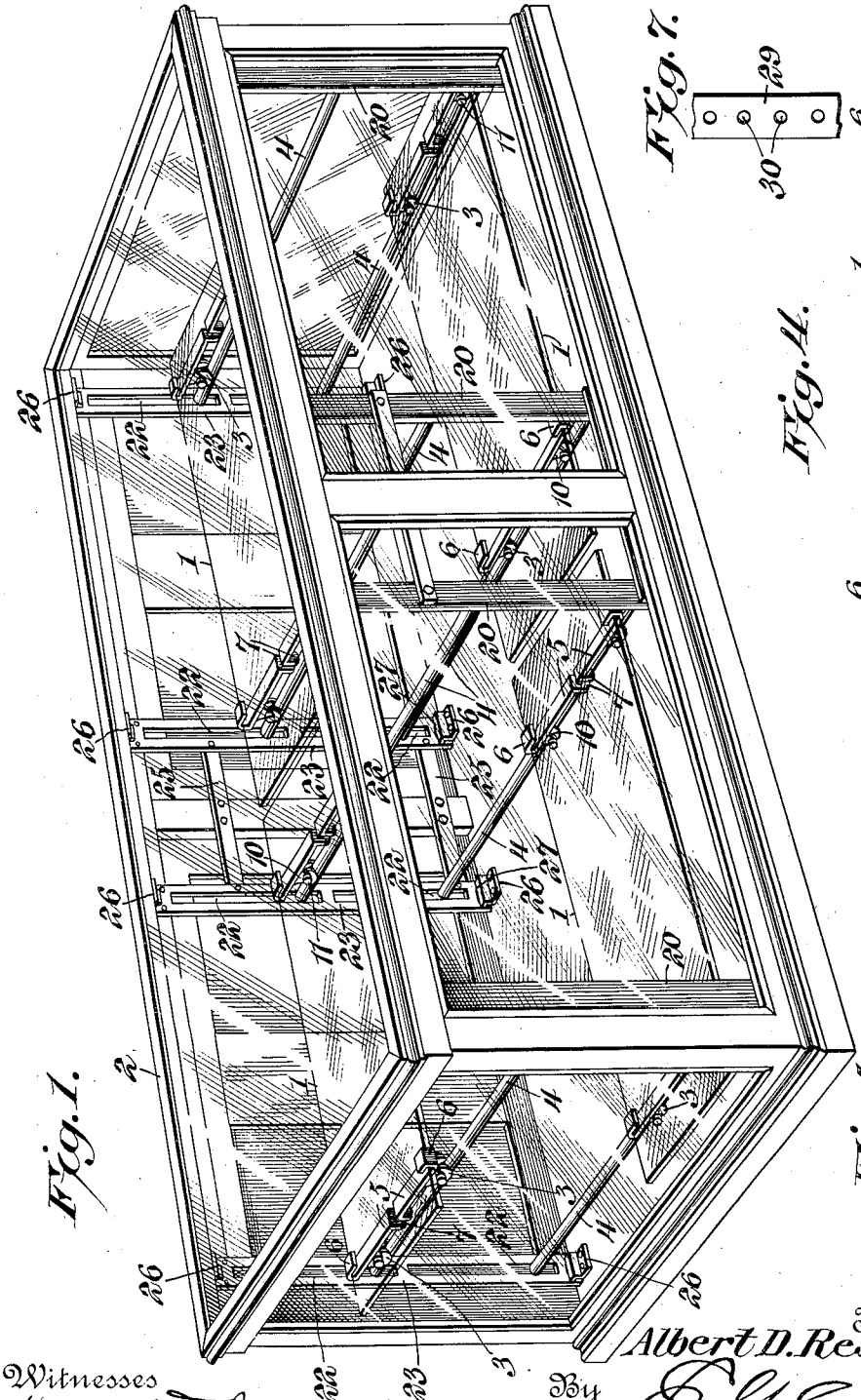


Fig. 1.

Fig. 4.

Fig. 7.

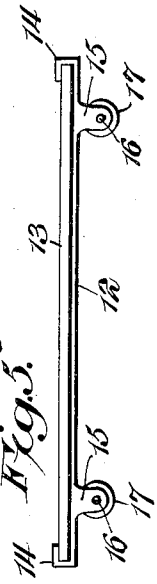


Fig. 5.

Witnesses

Howard D. Orr.

J. F. Riley

Inventor,

Albert D. Resler,

By

C. G. Siggers.

Attorney

No. 880,827. PATENTED MAR. 3, 1908.

A. D. RESLER.

SHOW CASE.

APPLICATION FILED MAY 14, 1907.

2 SHEETS—SHEET 2.

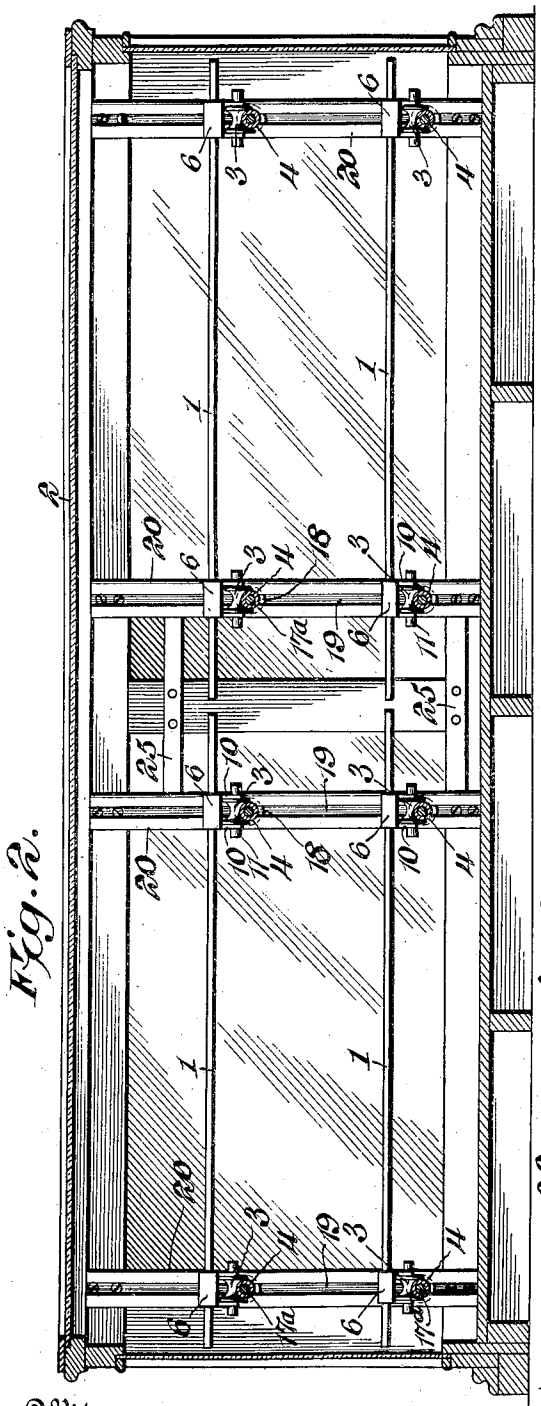


Fig. 2.

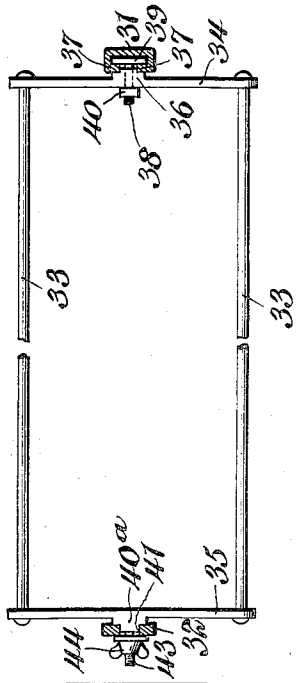


Fig. 6.

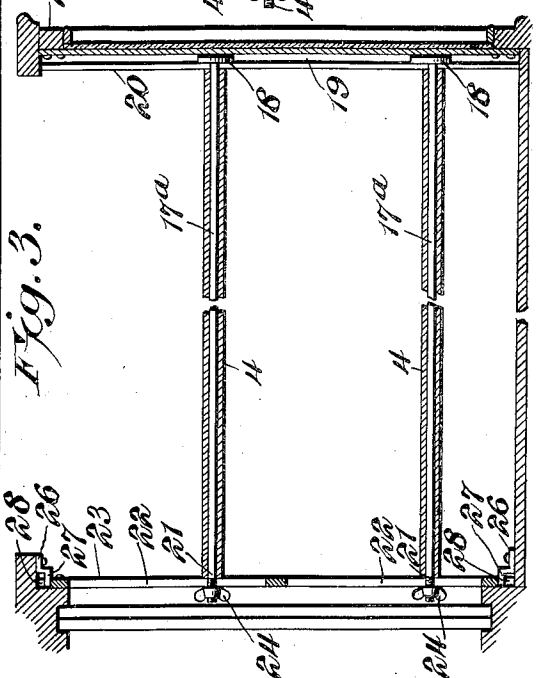


Fig. 3.

Witnesses
Howard D. Orr.
H. F. Riley

Albert D. Resler,
Inventor,
By E. G. Siggers.
Attorney

UNITED STATES PATENT OFFICE.

ALBERT D. RESLER, OF MONTESANO, WASHINGTON.

SHOW-CASE.

No. 880,827. Specification of Letters Patent. Patented March 3, 1908.

Application filed May 14, 1907. Serial No. 373,697.

To all whom it may concern:

Be it known that I, ALBERT D. RESLER, a citizen of the United States, residing at Montesano, in the county of Chehalis and State of Washington, have invented a new and useful Show-Case, of which the following is a specification.

The invention relates to improvements in show cases.

The object of the present invention is to improve the construction of show cases, more especially the means for mounting the shelves for displaying the goods, and to provide simple, inexpensive and efficient means for enabling the shelves of a show case to be moved either backward or forward, whereby easy access may be had to any article within the show case, without kneeling or stooping, and without liability of disarranging the contents of any of the shelves, or of upsetting, breaking or otherwise injuring any of the articles displayed on the shelves.

A further object of the invention is to provide a show case of this character in which any desired number of shelves may be employed and which will enable the shelves to be readily raised or lowered and securely held at the desired elevation.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings:—Figure 1 is a perspective view of a show case provided with adjustable shelves, constructed in accordance with this invention. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a transverse sectional view. Fig. 4 is a detail sectional view illustrating the manner of adjustably clamping the rollers on a glass shelf. Fig. 5 is a similar view, showing another means for securing the rollers to a glass shelf. Fig. 6 is a detail view partly in section, illustrating another manner of adjustably connecting the rails with the front and rear posts. Fig. 7 is a detail view of a portion of a rear post, illustrating a modification of the invention.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1—1 designate horizontally movable shelves, arranged within a show case 2 and constructed of a width less than the distance between the front and rear walls of the show case, and adapted to slide backward or forward to arrange them in the desired position for displaying their contents more advantageously, and for also permitting ready access to be had to any of the articles displayed, without kneeling or stooping, and without liability of disarranging, breaking or otherwise injuring any of the goods. The shelves may be of any desired number, and the show case may be constructed in any preferred manner and as the shelves are applicable to the various kinds of show cases, windows and analogous places employed for displaying or storing articles.

In the accompanying drawings, the show case 2 is shown equipped with two upper shelves and two lower shelves, constructed of glass, but wood or any other material may be employed in the construction of the shelves. The shelves 1 are provided with rollers or wheels 3, arranged to run on rails 4, located at the inner and outer ends of the shelves and extending from the back to the front of the show case, as clearly illustrated in Figs. 1 and 3 of the drawings. When the shelves are constructed of wood, the casings or frames of the rollers or wheels may be screwed or otherwise secured to the lower faces of the shelves, but when glass shelves are employed, the rollers or wheels may be attached to the same by means of adjustable clamps, composed of two sections or members 5, consisting of flat bars fitted against the lower faces of the shelves and disposed transversely thereof, as clearly shown in Fig. 4 of the drawings. The outer ends of the sections are bent upwardly and inwardly to form substantially L-shaped jaws 6 for engaging the front and rear edges of the shelves 1—1, and the inner ends 7 of the sections of the clamp are bent downwardly at right angles and are pierced by a connecting bolt 8, having a thumb nut 9 and constituting adjustable means for connecting the sections of the clamp together. The bolt 8 with its thumb nut are adapted to draw the jaws 6 of the clamp into engagement with the front and rear edges of the shelf 1. The sections 5 of the clamp are provided near their outer ends with depend-

ing bearing ears 10 for the reception of spindles 11 of the rollers or wheels 3, which are grooved to receive the rails to prevent the shelves from accidentally slipping therefrom.

Instead of employing an adjustable clamp for mounting the rollers or wheels on the shelf, a clip 12 may be used. The clip 12 consists of a flat bar or piece, disposed transversely of the shelves 13 and having its terminals 14 bent upwardly and inwardly to form substantially L-shaped jaws or engaging portions, which embrace the front and rear edges of the shelves. The clip or clamp 12 is provided near its ends with depending bearing ears or flanges 15, which receive the spindles 16 of the rollers or wheels 17.

The rails illustrated in Figs. 1 to 3 of the accompanying drawings are tubular and receive clamping rods 17ª, provided at their front ends with heads 18, which are arranged in ways 19 of front posts 20. The rear ends 21 of the rods pass through slots 22 of the rear posts 23, and are provided with thumb nuts 24, engaging the rear faces of the rear posts and adapted to clamp the same and to also draw the heads 18 of the front ends of the rods tightly against the front posts, whereby the latter are clamped firmly between the heads 18 and the adjacent ends of the tubular rails. The ways of the front posts are formed by bending the side edges of the said front posts inwardly to form inwardly extending substantially L - shaped flanges, which are spaced apart to receive the rods. The slots 22, which extend longitudinally of the rear posts, terminate short of the center and ends thereof, as clearly illustrated in Fig. 3 of the drawings. The grooved rollers or wheels of the shelves fit the rails and they enable the shelves to slide freely, when moved backward or forward. The front end posts are secured to the framework of the show case by screws, or other suitable fastening devices, and the intermediate front and rear posts, which are located adjacent to the inner ends of the shelves, are arranged in pairs and are preferably connected by horizontal bars or members 25, which are secured to the center posts of the front and back of the show case. When more than two sets of shelves are employed, the horizontal bars or members 25, which connect the posts, may be secured to any convenient portion of the frame of the show case.

The rear end posts are connected at their ends with the top and bottom of the show case by means of angularly bent plates or pieces 26, secured to the top and bottom of the show case and provided with projecting L-shaped portions 27, which extend into terminal recesses 28 of the rear posts.

Instead of employing slotted rear posts for supporting the rear ends of the rails, posts 29 having perforations 30, may be used. The perforations 30 are arranged at intervals, and are adapted to permit a vertical adjustment of the rails to arrange the shelves at the desired elevation. Also instead of employing a post at each end of the intermediate rails, the latter may be supported by a centrally arranged front post 31 and a correspondingly arranged post 32. The intermediate rods 33 are secured at their ends to horizontal front and rear connecting bars 34 and 35. The front connecting bar 34 is provided at its center with an enlarged portion or lug 36, which fits against the front post 31 and which is recessed to extend into the space between the side flanges 37. The front connecting bar 34 is adjustably secured to the front post 31 by means of a bolt, or fastening device 38, having an enlarged head 39 and threaded to receive a nut 40. The head is arranged within the post 31 and the nut engages the inner face of the connecting bar 34.

The rear connecting bar 35 is provided with a centrally arranged lug 40ª, recessed to extend into one of the slots 41 of the post 32 and having a threaded stem or shank 43, which receives a thumb nut 44 for engaging the rear face of the rear post. By this means the rear connecting bar 35 is adjustably clamped to the rear post. In the form of invention illustrated in Fig. 6, where the intermediate rails are connected by the front and rear bars 34 and 35, solid rails or rods may be employed. The ends of the rails or rods 33 may be secured to the terminals of the horizontal connecting bars 34 and 35 in any preferred manner.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. The combination with a show case, of front and rear posts arranged within the same, horizontally disposed rails, means for adjustably connecting the terminals of the rails with the front and rear posts for raising and lowering the rails, and shelves having wheels arranged to run on the rails.

2. The combination of a show case, front and rear posts mounted therein, tubular rails extending from the front to the rear post and engaging the same, clamping rods passing through the tubular rails and provided with terminal means coöperating with the adjustable tubular rails for clamping the said posts, whereby the rails are secured in their adjustment, and shelves supported by the rails.

3. The combination with front and rear posts, the front post being provided with vertical ways, tubular rails extending from the front to the rear posts, clamping rods passing through the tubular rails and having terminal portions slidable in the ways of the front posts, adjustable means for securing the rear ends of the rods to the rear posts and for

causing the rods and rails to clamp the front posts, and shelves slidable on the rails.

4. The combination of front and rear posts, the rear post being provided with slots, adjustable tubular rails, clamping rods passing through the rails and through the slots of the rear posts and provided with means for engaging the front posts, means carried by the clamping rods and coöperating with the rails to secure the latter in their adjustment, and shelves supported by the rails.

5. The combination of front posts having inwardly extending flanges spaced apart and forming ways, rear posts, tubular rails, clamping rods passing through the tubular rails and having heads arranged within the front posts and engaging the flanges thereof, said rods being provided at their rear ends with screw threads and passing through the rear posts, and nuts arranged on the threaded ends of the rods and engaging the rear posts, said nuts being also adapted to cause the rails and the heads of the rods to clamp the front posts.

6. The combination of a show case, intermediate front and rear posts arranged in pairs, horizontal bars connecting the members of each pair of posts and secured to the show case, end front and rear posts mounted within the show case at the ends thereof, rails supported by the posts, and shelves slidable on the rails.

7. The combination of a show case, rails, posts supporting the rails and provided at their upper and lower ends with terminal recesses, plates or members mounted on the show case at the top and bottom thereof and having reduced projecting portions engaging the terminal recesses of the posts to interlock the same with the show case, and shelves supported by the rails.

8. The combination of rails, means for supporting the same, a shelf, rollers or wheels, and clamps for securing the rollers or wheels to the shelf, said clamps being composed of sections or members having terminal jaws for engaging the opposite edges of the shelf, and means for adjustably connecting the sections.

9. The combination of a shelf, rollers or wheels, and clamps for securing the rollers or wheels to the shelf, said clamps being composed of two sections or members arranged on the under side and having terminal jaws for engaging the opposite edges of the shelf, and means for adjustably connecting the sections.

10. The combination of rails, means for supporting the same, a shelf, rollers or wheels, and clamps for securing the rollers or wheels to the shelf, said clamps being composed of sections extending across the bottom of the shelf and provided at their outer ends with jaws for engaging the opposite edges of the shelf, the inner terminals of the sections being extended downwardly, and a fastening device piercing the inner end of the sections and adjustably connecting the same.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

ALBERT D. RESLER.

Witnesses:
H. O. CAMP,
JOSEPH H. FITZ.