

H. METZGER.
SHOW CASE AND THE LIKE.
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1,181,331.

Patented May 2, 1916.

Fig. 1.

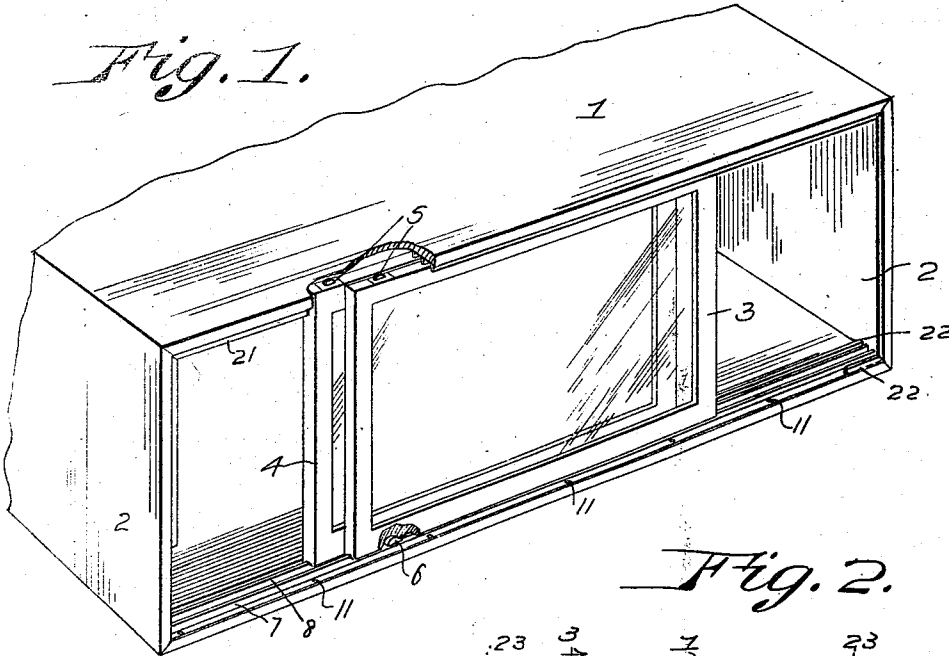
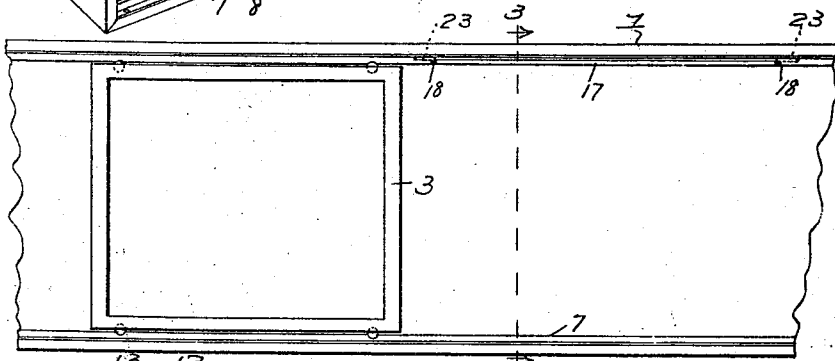
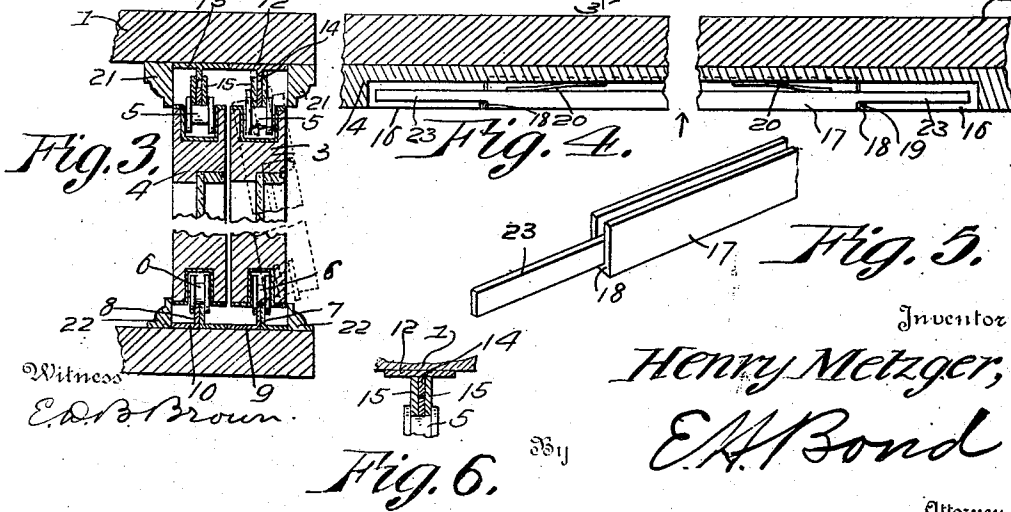


Fig. 2.



UNITED STATES PATENT OFFICE.

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SHOW-CASE AND THE LIKE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HENRY METZGER, a citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented certain new and useful Improvements in Show-Cases and the like, of which the following is a specification.

This invention relates to certain new and useful improvements in removable sash for show cases, windows, cupboards and the like, and it has for its objects among others to provide a simple, yet efficient and durable construction whereby the sash may be readily removed for cleaning or for other purposes without interference by inside shelving and also for easy repair purposes without inconveniencing any one behind a counter; also one which shall be dustproof, applicable to any style of movable sash and so constructed as to prevent its leaving the track by any ordinary usage of the sash or sashes.

It has for a further object to provide a construction readily applicable to any kind or style of existing case fronts, the track being entirely separate and attachable to any manner of case, either wood, metal or glass, and without adding materially to the cost thereof. The tracks may be made of metal or any other suitable material readily attached to the desired support and when in position easily movable upon the tracks.

Other objects and advantages of the invention will hereinafter appear and the novel features thereof will be particularly pointed out in the appended claim.

The invention is clearly illustrated in the accompanying drawings, which, with the numerals of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a perspective view showing a portion of a show case with my improvements applied. Fig. 2 is a detail view with portions broken away, showing one of the sashes in position. Fig. 3 is a cross section on the line 3—3 of Fig. 2, looking in the direction of the arrows. Fig. 4 is a detail in longitudinal section showing a portion of the track in elevation. Fig. 5 is a perspective detail of a portion of the movable section of the track. Fig. 6 is a sectional detail showing the movable track and portion of one of the cooperating rollers, the track being shown in its compressed condition.

Like numerals of reference indicate like parts throughout the several views.

Referring to the drawings, 1 designates a structure which may be a show case or any other inclosure, of which 2 is the open side and 3 and 4 sashes designed to close the opening and slidable upon tracks in the usual manner except as hereinafter specified. In opposite edges of the sash are rollers 5 and 6. In the present instance the rollers 5 at the top are shown as provided with a greater space between their side flanges than the space between the flanges of the lower rollers 6 for a purpose which will hereinafter appear. The lower rollers are guided upon the flanges 7 and 8 of the tracks 9 and 10, which latter are secured in position in any suitable manner as by screws or the like 11. These tracks are attachable to show cases or other articles of any nature without any special construction of the latter and may be formed in any suitable way, either two-ply, as seen in Fig. 3, or otherwise.

The upper tracks 12 and 13 comprise each a base portion adapted to be secured to the show case or other article by screws or the like and from each base portion there extends downward a central web or flange 14, as seen clearly in Figs. 3 and 6. The upper tracks are each provided with the depending side members 15 embracing the flanges 12 or 13, as seen in Figs. 3 and 6, and each of the upper tracks is provided with a slit 16 corresponding with the width of each sash and in each of these tracks, movable within the slits, is a track portion 17 provided with offsets 18, as seen in Fig. 4, which engage pins or the like 19 passed through opposite walls of the side portions 15 to limit the outward movement of the portion 17. Each of the movable portions 17 is backed by a spring or springs 20, two being shown in Fig. 4, so that the portion 17 is normally forced outward so that its outer face is in alinement with the outer faces of the side portions 15. It is evident that one spring may be employed in lieu of the two shown.

To insert the sash in position, it is placed with its rollers engaging the movable portion 17 of the track and then pressure applied in the direction of the arrow in Fig. 4, when the movable portion 17 will be forced inward against the pressure of the spring or

springs until the rollers at the lower edge of the sash can be engaged over the flange of the bottom track. Then pressure is removed from the sash, when the springs or spring will force the movable portion 17 outward in alinement with the fixed portion of the upper track and the sash is held in position against accidental displacement, but can be readily slid along the track either to the right or to the left. When it is desired to remove the sash for cleaning purposes or otherwise, it is brought to position opposite the movable track section and then by pressure in the direction of the arrow in Fig. 4 against the tension of the spring or springs, the movable section will be forced inward when the lower rollers will be clear of the flange of the lower track and then the sash can be moved outward, as indicated by dotted lines in Fig. 3.

By providing the moldings 21 and 22 at the top and bottom, as indicated in Fig. 3, a dustproof structure is assured.

The extensions 23 of the movable portion 17 may be of greater or less length as may be found most expedient.

By the construction shown, the tracks are as neat in appearance as any other form and the sash may be quickly and easily inserted or removed. The track sections may be made of any desired width or length, of metal or any other suitable material.

Besides the convenience of cleaning or repairs, the sash may be easily removed and the construction shown not only saves hard work, but prevents breakage of the glass. The grooves in the rollers may be of any

desired depth and the movable portion may be disposed at any desired part of the track.

Modifications in details may be resorted to without departing from the spirit of the invention or sacrificing any of its advantages.

What is claimed as new is:—

In a show case, tracks attachable thereto and having securing flanges and roller-engaging flanges, tracks opposed to first-named tracks and each comprising a base portion with attaching flanges and a central web, side members embracing each web, said last-named tracks being provided with slits corresponding with the width of each sash, track portions movable within said slits and provided with offsets, pins passed transversely through said side members and engaging with said offsets in said slits to limit the outward movement of the movable track portions, said movable track portions having longitudinal extensions within said slits, and springs extending in said slits lengthwise of the track portions and bearing against the rear faces thereof between said pins and the central portions of track portions, and sash movable between said opposed tracks and having grooved rollers engaged with said movable track portions and between the flanges of which said side members are disposed.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY METZGER.

Witnesses:

HENRY HENNINGS,
M. BULSKI.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."