Jan. 3, 1939. M. E. MOORE 2,142,822

WINDOW SHADE

Filed March 22, 1937

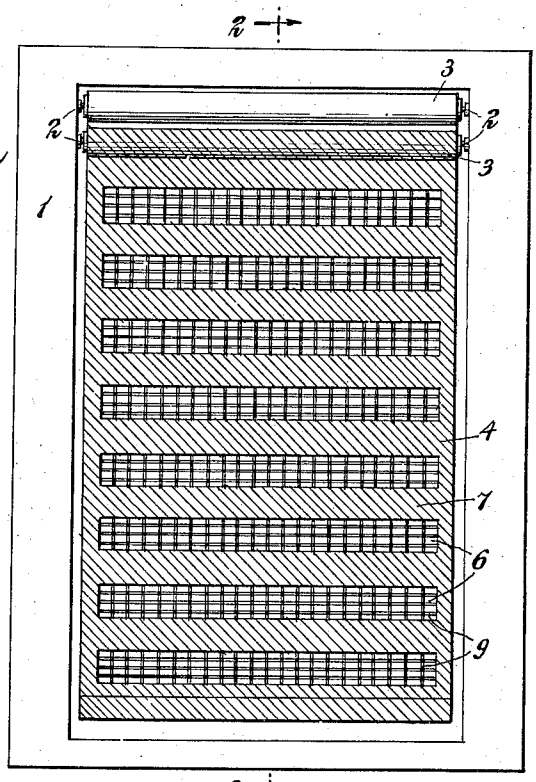



Fig. 1

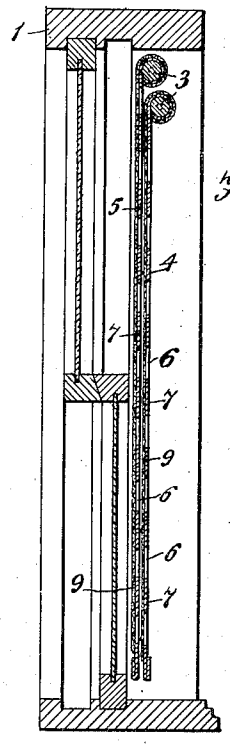



Fig. 2

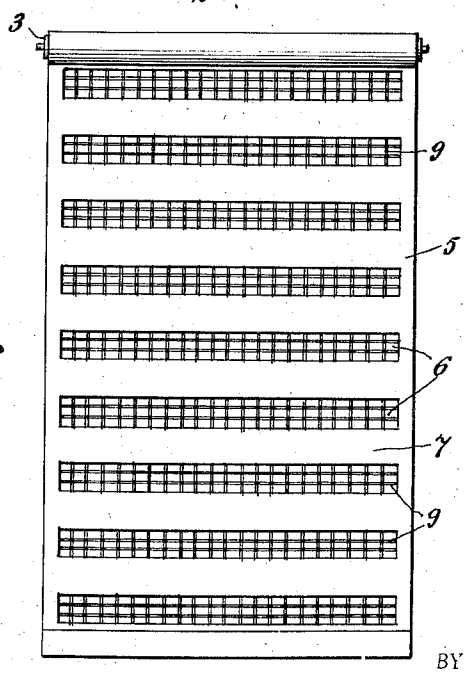



Fig. 3

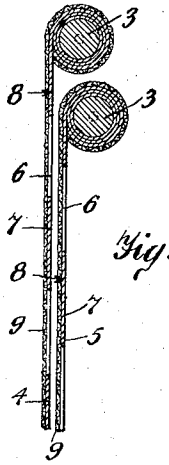



Fig. 4

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## WINDOW SHADE

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2 Claims. (Cl. 156—10)

This invention relates to roller window shades, and its principal object is to provide window shades of this type, wherewith the degrees of light penetration and light exclusion can be readily and efficiently controlled by the mere drawal of the shades, and wherewith such control of window light may be effected evenly, uniformly, and efficiently throughout the entire area of the window.

Heretofore, the regular roller window shades were in almost universal use, although they embody a number of disadvantages, particularly the inability to exclude light from the lower window sash without unduly darkening the room. But in recent years there has developed a tendency to adopt the Venetian type of window blinds to remedy the disadvantages of roller shades, as well as to obtain several additional advantages. These blinds however possess certain serious disadvantages, which many consider much worse than those of roller shades, in that the blinds are costly, heavy and cumbersome to operate, they tend to get out of order and are difficult to repair, they become dirty and are hard to clean, and they generally render it impossible to install window curtains.

It is therefore another object of the invention to provide improved roller shades, which will render the use of the above blinds unnecessary, and wherewith the disadvantages inherent in the regular roller shades will be remedied.

Other objects and advantages will hereinafter appear.

In the accompanying drawing,—

Fig. 1 is a front elevation, showing a window and window frame equipped with the roller shades of this invention.

Fig. 2 is a cross sectional side elevation of the window and shades shown in Fig. 1.

Fig. 3 is a front elevation showing one of the window shades.

Fig. 4 is a fragmentary cross sectional side elevation, in an enlarged scale, showing the shades as they appear when partially drawn.

The window frame 1 is equipped with the usual sockets 2 adapted to receive the regular spring rollers 3 that carry a shade 4 of dark opaque material at the rear and a shade 5 at the front of light color and partially translucent material. Each of the shades is provided throughout its extent with a series of horizontal open areas 6, as shown, which areas are separated by the closed areas 7 of the shade cloth, the closed areas 7 being wider than the open areas 6. The rear surface 8 of each of the shade cloths 4, 5 is lined throughout its extent with a gauzy lining 9, the function of which is to reinforce the shade, improve the appearance of the open areas 6, and render these areas less light transmissive.

With the utilization of this pair of shades, either of them may be drawn singly, as shown in Figs. 1, 3, to shade the window partially, or they may be both unrolled with their open areas 6 disposed in registry with each other, as shown in Fig. 2, to exclude more of the window light. Also, the shades 4, 5 may be both drawn so as to stagger their areas 6 and 7 to any degree required, as illustrated in Fig. 4, to regulate or control the amount of exclusion of the window light, or the shades may be unrolled to dispose the closed areas 7 of either into registry with the open areas 6 of the other to exclude maximum window light.

It will be evident that with this pair of window shades all of the advantages inherent in the regular roller window shades and Venetian type blinds are attained, while the disadvantages of both are fully remedied.

Variations may be resorted to within the scope of the invention, and portions of the improvements may be used without others.

Having thus described my invention, I claim:—

1. A window roller shade set having the combination of an upper spring roller equipped with a rear shade, a lower spring roller equipped with a front shade, said rear shade consisting of a material comprising laminations integral with each other, one of said laminations being of opaque substance and the other of transparent substance, said opaque substance having a series of open areas separated by a similar series of closed areas, said front shade consisting of a material comprising laminations integral with each other, one of said front shade laminations being of translucent substance and the other of transparent substance, and said translucent substance having series of open and closed areas similar to those of said opaque substance.

2. A window roller shade set having the combination of an upper spring roller equipped with a rear shade, a lower spring roller equipped with a front shade, each of said shades consisting of a material comprising laminations integral with each other, one of said rear shade laminations being of opaque substance and the other of gauzy substance, said opaque substance having a series of open areas separated by a similar series of closed areas, one of said front shade laminations being of translucent substance and the other of gauzy substance, and said translucent substance having series of open and closed areas similar to those of said opaque substance.

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