D. SPIVAK.

WINDOW SHADE.

APPLICATION FILED SEPT. 13, 1913.

1,112,940. Patented Oct. 6, 1914.

Fig. 3.

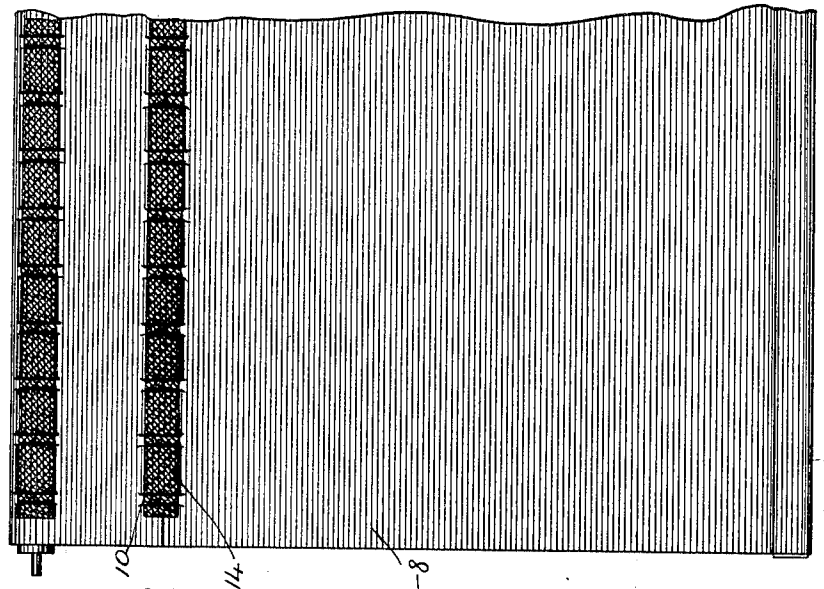
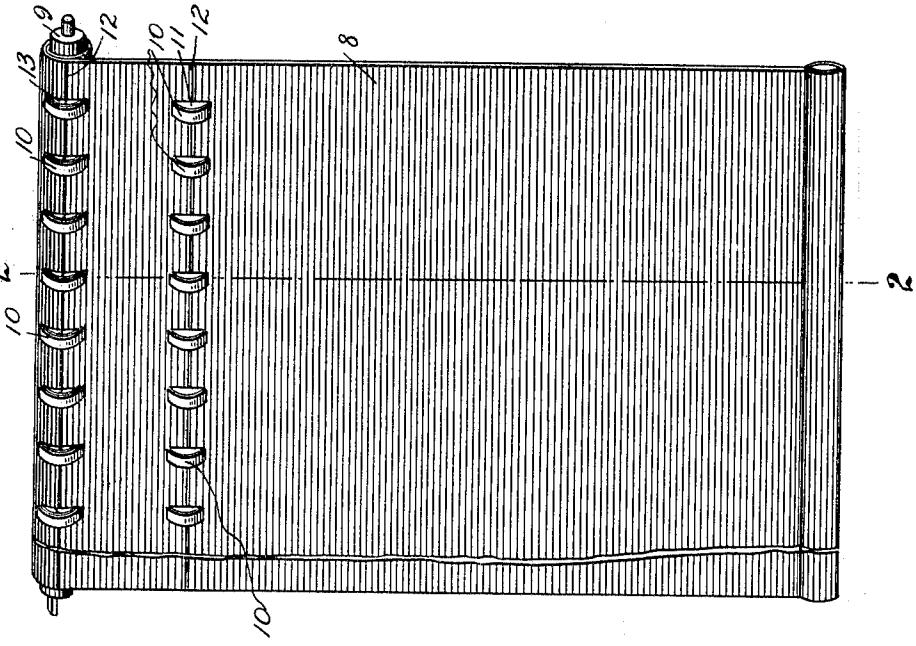


Fig. 2.



Fig. 1.



WITNESSES

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WINDOW-SHADE.

1,112,940. Specification of Letters Patent. Patented Oct. 6, 1914.

Application filed September 13, 1913. Serial No. 789,621.

To all whom it may concern:

Be it known that I, DAVID SPIVAK, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Window-Shade, of which the following is a full, clear, and exact description.

Among the principal objects which the present invention has in view are: to provide means for ventilating a room provided with a curtain shade, the ventilators being incorporated in the shade; to provide a window shade with ventilating apertures arranged to obstruct light, while giving free access to air; and to provide means whereby window shades constructed as outlined may be rolled as in the conventional manner.

In the drawings, Figure 1 is a perspective view of a window shade constructed and arranged in accordance with the present invention; Fig. 2 is a vertical section taken on the line 2—2 in Fig. 1; Fig. 3 is a view of a modified form of the invention.

In the embodiment of the invention shown in the drawings, the shade 8 is constructed of conventional material, and is operatively secured upon a winding roller 9 of conventional make, and preferably of the so-called "Hartshorn" type.

The shade 8 is provided at intervals with severed and outwardly-bowed portions 10. The portions 10 are suitably reinforced to maintain the bowed shape shown in the drawings, so that openings 11 at the sides of the portions 10 furnish a free passage for air entering and leaving the room which is provided with curtains so constructed. Where deemed necessary, the bowed shape imparted to the portions 10 may be secured by parting the material of the shade 8 on the lines 12, the severed edges of the material at this point being overlapped to contract the length of the curtain and secure the necessary bulge of the portions 10. The bulged portions 10 are preferably arranged in line across the width of the shade 8, as shown in Fig. 1 of the drawings. The various lines of the portions 10 are spaced apart a distance so calculated that when the shade is wound on the roller 9, said portions 10 will register or overlay one upon the other, thus making it possible to roll a shade when thus constructed. For this purpose, the roller 9 is preferably provided with a series of form blocks 13, which extend in the first of the portions 10 to rest on the roller 9, and thereafter to prevent the crushing of said portions 10 by the remainder of the curtain 8 being wound thereover.

In Fig. 3 of the drawings, the modified form provides principally for the employment of a strip of netting 14 or open-mesh material, which covers the back of the shade 8 in line with the portions 10, and is pressed into the hollow of the portions 10 to form sockets to hold previously-wound portions 10.

When the shade is provided with the netting 14, the netting operates as a screen to prevent the entrance of flies, mosquitoes, or other insects, while permitting air to pass for ventilating the chamber provided with the shades 8 constructed as above described.

Claims.

1. A shade, having a plurality of series of alined, spaced-apart, surface-projected sections, the individual sections in successive series being arranged to overlie the individual sections of preceding series, to permit rolling said shade.

2. A shade, having a plurality of series of alined, spaced-apart, surface-projected sections, the individual sections in successive series being arranged to overlie the individual sections of preceding series, to permit rolling said shade; and a meshed covering for the openings formed by said sections.

3. In combination, a shade having a plurality of spaced-apart projections, said projections being raised to provide lateral openings; and a roller having a series of form blocks shaped apart and shaped to coincide with said projections and to fit within the same.

4. A shade having a plurality of outwardly-bowed sections forming with the

body of the shade lateral openings, said bowed sections being arranged in horizontal lines in successive series; and a roller having a series of form blocks to register with and fit within said bowed sections when the shade is rolled thereon.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DAVID SPIVAK.

Witnesses:
E. F. MURDOCK,
PHILIP D. ROLLHAUS.

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