

(No Model.)

G. W. McGILL.

WINDOW SHADE.

No. 347,434.

Patented Aug. 17, 1886.

Fig. 1.

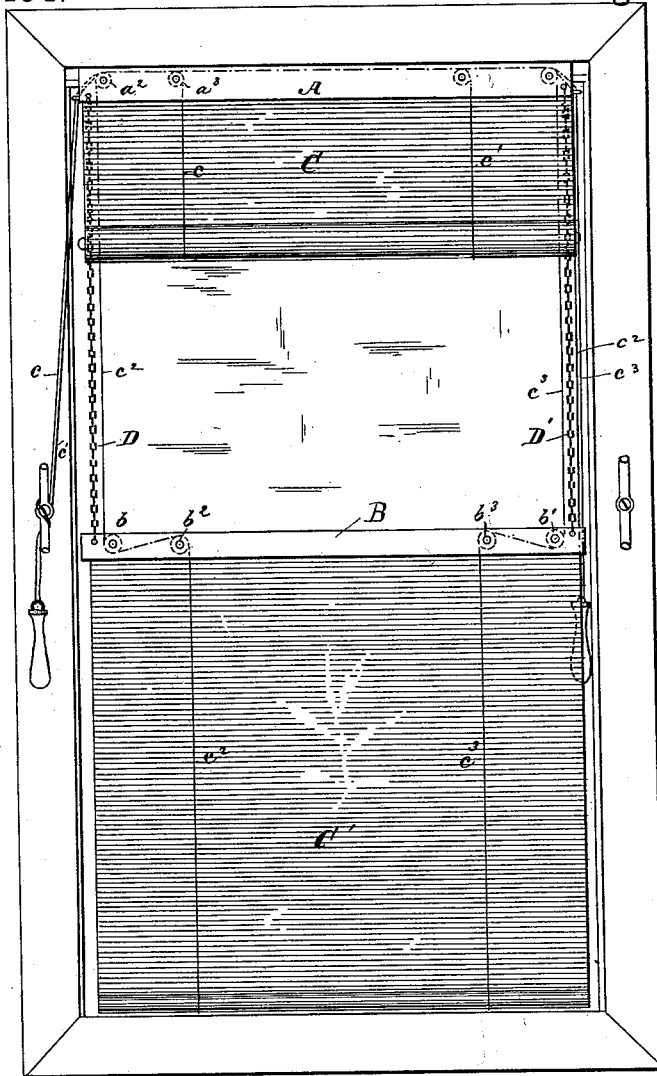
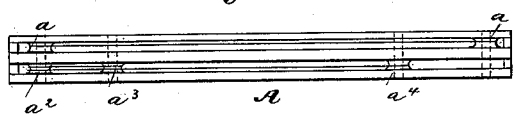


Fig. 2.



WITNESSES:

Henry E. C. King
A. G. W. Vermilyea

INVENTOR

BY George W. McGill
J. P. Fitch.
his ATTORNEY

UNITED STATES PATENT OFFICE.

GEORGE W. MCGILL, OF SALINEVILLE, OHIO.

WINDOW-SHADE.

SPECIFICATION forming part of Letters Patent No. 347,434, dated August 17, 1886.

Application filed November 18, 1885. Serial No. 153,153. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. MCGILL, of Salineville, in the county of Columbiana and State of Ohio, and a citizen of the United States of America, have invented certain new and useful Improvements in Window-Shades, of which the following is a specification, reference being had to the accompanying drawings, forming part of the same, in which—

Figure 1 is a face view of a window frame and shade embodying my invention, the pulleys and a portion of the suspending-chains being shown in dotted lines; and Fig. 2 is an upper face view of the bar or frame and pulleys from which the shade is preferably suspended.

My invention relates to window-shades constructed to cover the lower portion of the window independently of the upper portion, and the combination of such with a shade to cover said upper portion; and it consists in the devices and combination of devices hereinafter described and claimed.

A represents the suspending bar or frame, and consists, preferably, of three longitudinal strips secured together at the ends, with blocks between each two pieces at said ends, thus forming two longitudinal slots, in which are mounted pulleys in the rear slot, a and a' , one at either end, and in the front slot, a^2 and a'^2 , one at one end and two others near the respective ends, though the device might be constructed with only one slot having a pulley at either end; but this would compel the placing of the shade-roller cords one over another and so near to the ends of the roller as to be objectionable, for which reason I prefer to construct it as shown and described. This frame is preferably made independent of the window-frame and supported therein at the upper end; but, as will readily be seen, it might be constructed as the upper part of the window-frame itself. Secured to this frame A is a shade, C, of sufficient length to cover the upper part of the window and cords c and c' , the ends of which are attached thereto, preferably at the rear of the front slot, at points respectively opposite the two inside pulleys, a^2 and a'^2 . These cords are passed down and around the lower edge of shade C, and up on the other side over pulleys a^2 and a'^2 , respectively. The cord c is also

passed to the left and over pulley a^3 , and both cords are then passed out and down to a point where they may be reached by the hand for convenient manipulation.

To frame A, and preferably the rear part thereof, are also secured two chains or cords, D and D', of a length sufficient to reach the upper part of the lower portion of the window intended to be covered by the lower shade, and from the lower ends of these chains is suspended a bar, B, adapted to support the lower shade, C'. This shade C' is secured by its edge to the bar B, and is of a length sufficient to cover the lower part of the window. Cords c^2 and c^3 are secured to this bar, preferably at the rear part, and are passed down and about said shade C', and up on the other side to and over pulleys b^2 and b^3 , placed in slots formed in bar B, at points about in line with cords c and c' . They are then passed, respectively, to the sides and under pulleys b and b' , respectively, said pulleys being placed in slots near the respective ends of B, at points about in line with pulleys a and a' , though this arrangement is only preferable, as these cords might be secured at points in line with said pulleys a and a' , and after passing around the shade be carried directly through bar B, without pulleys, but at points in line with a and a' . From these points cords c^2 and c^3 pass upward over pulleys a and a' , c^2 preferably then going to the right and over a' , and then both it and c^3 out at the side and down to a point where they both will be easy of access for raising or lowering B and C'. Of course cords c^2 and c^3 might also be secured to A, and pass from thence down and around shade C', up through B, and thence, as described; but when arranged as shown the device is much easier in operation, as no more than two cords pass over any one pulley, and the cords so placed present a much finer appearance. If the pulleys at the top are placed in the window-frame itself, the cords may be led over them and down within the side frames through the weight-boxes, and out at the front side at points within easy reach, or around wheels placed at such points and arranged to be accessible to the hand.

The operation of this shade is as follows: If shade is desired at the upper portion of the window, cords c and c' are slackened, and

shade C unrolls itself to such a point as may be desired, when the cords may be secured to a cleat or in any other suitable way. If shade is desired at the lower part of the window, cords c^2 and c^3 are slackened for that purpose.

To roll up shade C, it is merely necessary to draw down cords c and c' , and to roll up C similar action is necessary with cords c^2 and c^3 ; but it will be observed that the cords for rolling up said shade pass through bar B, and that if, when said shade is fully rolled up, the operator continues to draw upon said cords c^2 and c^3 , it will tend to draw up said bar B, with its attached shade, and to carry it entirely to the top of the window-frame altogether out of the way of the light passing through said window, thus entirely removing all obstruction to the sight and all ungainliness which a rolled shade at the middle portion of the window would present, which action is the main purpose of my present invention.

What I claim, and desire to secure by Letters Patent, is—

1. As an improvement in window-shades, the shade C', secured to a bar, B, cords D D', secured to a frame at the upper part of the window and adapted to suspend said bar at a point below the top of said frame, and cords c^2 and c^3 , secured to a frame at or above the upper part of C', and passing around said shade C' and then up over pulleys b^2 b^3 and under pulleys b b' , respectively, thence to and over pulleys located in a frame at the upper part of the window and down to a point easily accessible, all as and for the purpose specified.

2. As an improvement in window-shades, the sections C and C', secured to frames, as described, C being provided with a cord passing about it and over a pulley at the upper part of the window, and C' being provided

with cords attached at or near the upper part of the window and to its frame, whereby the frame is suspended between the top and bottom of the window, and other cords passing about it and over pulleys at or near the upper part of the window, as and for the purpose specified.

3. As an improvement in window-shades, the frames A and B, and sections C and C', secured to said frames, respectively, the cords D and D', attached to and adapted to support said frame B, cords c c' , adapted to lift said section C, cords c^2 c^3 , adapted to lift said section C', and pulleys a a' , so located and arranged that said cords c c' c^2 c^3 may pass over and be guided into proper position by said pulleys, all constructed and arranged substantially as described, said frame A being independent of the window-frame, but provided with means for securing it thereto, and the remaining parts being supported by said frame, all as and for the purpose specified.

4. In a window-shade, the combination of a frame at the upper part of the window-section C, supported thereby, pulleys a a' a^2 a^3 , located as described, cords c c' , adapted to lift said section C, and to be passed over and guided by said rollers a a' , frame B, supported by cords D and D' and provided with pulleys b b' b^2 b^3 , section C', secured to said frame B, and cords c^2 c^3 , arranged to pass over pulleys b^2 and b^3 , under pulleys b and b' , and over pulleys a^2 , a' , and a^3 , respectively, and be by them guided into proper position, and adapted to lift said section C' and frame B, all substantially as and for the purpose specified.

GEORGE W. MCGILL.

Witnesses:

ELMER E. BLACK,
THOMAS CANLIN.