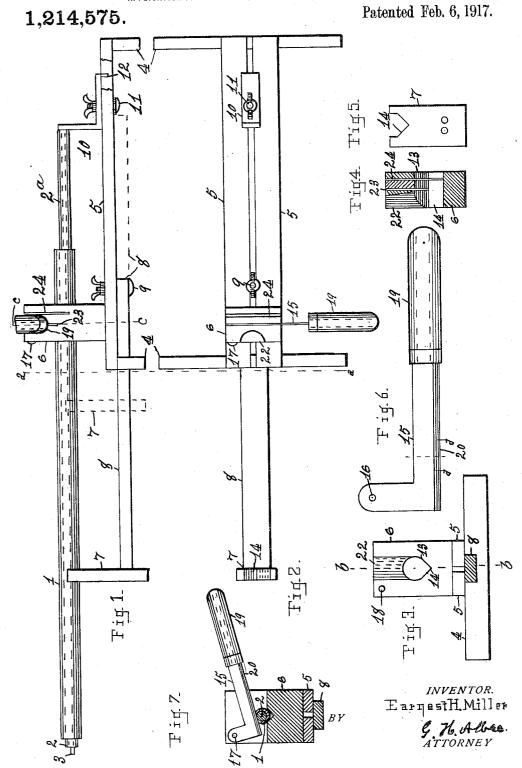
E. H. MILLER.
WINDOW SHADE TRIMMER AND ROLLER CUTTER.
APPLICATION FILED SEPT. 20, 1915. RENEWED JUNE 24, 1916.



## UNITED STATES PATENT OFFICE.

EARNEST H. MILLER, OF LADYSMITH, WISCONSIN.

## WINDOW-SHADE TRIMMER AND ROLLER-CUTTER.

1,214,575.

Specification of Letters Patent.

Patented Feb. 6, 1917.

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To all whom it may concern:

Be it known that I, EARNEST H. MILLER, a citizen of the United States, residing at Ladysmith, in the county of Rusk and State of Wisconsin, have invented a new and useful Window-Shade Trimmer and Roller-Cutter, of which the following is a specification.

My invention relates to the trimming of 10 one edge of the shade after it has been wound around the shade roller with one edge of the shade at a determined distance from one end of the roller, said end being in those fixtures that have a spiral spring 15 in one end, such as may be seen in the commonly used Hartshorn's patent spring roller, and then cutting the shade near the opposite end of the roller of the proper width for the window to which it is to be applied, 20 and also, in sawing off the roller at the last named end the same distance from the trimmed edge of the shade as it is around the roller at the other, or spring end thereof; and it consists of a light frame formed 25 principally of wood, upon which the shade when wound upon the roller as above described, can be placed and firmly held, an adjustable gage for the desired length of the roller and of the width of the shade, and a 30 knife block and knife therein and a saw re-

The device is shown in the accompanying

drawing in which,-

ceiving slot in said block.

Figure 1 is a side elevation of the device 35 with a part broken away, showing a roller and shade wound thereon in position for being trimmed and cut. Fig. 2 is a plan of the frame. Fig. 3 is an end elevation of the frame at the right of the line a, a, of Figs. 40 1 and 2. Fig. 4 is a vertical section of the knife holding block as it appears when looking toward the left of the line b, b, of Fig. 3. Fig. 5 is an end elevation of the support for the shade and roller mid way its ends while 45 the shade is being trimmed and the roller cut the required length. Fig. 6 is a side elevation of the shade trimming knife upon a larger scale than previous figures. Fig. 7 is a vertical section through the knife block 50 upon the line c, c, of Fig. 1.

Similar numerals indicate like parts in

the several views.

1, indicates a window shade; 2, the end of the roller upon which the shade is wound and in rollers having a coiled spring therein it is the spring end, the other end of the roller in the present case extending some distance outside of the shade. 3, a gudgeon pin upon which the roller revolves; 4, feet of the frame; 5, two strips arranged parallel 60 and connecting the two feet; 6, the knife block which serves as a support for one end of the roller; and 7, a support for the roller intermediate its ends. This support is made to slide toward and from the knife block by 65 means of the connecting piece 8, which is fitted to slide through the foot piece 4 as is shown in Fig. 3. The collapsible feature is for saving storage space when the frame is not in use. The piece 8 can be held in any 70 desired position by means of a thumb nut and bolt 9.

10, is a stop piece for gaging the length of the roller; 11, a thumb nut and bolt for securing the piece 10 in the desired posi-75 tion; and 12, a tongue depending from the piece 10 and between the strips 5 for holding said piece parallel with the strips as shown in Fig. 1.

As rollers of any one shipment are usually 80 of a uniform length and the part to be cut off is of less length than the part used, the end to be cut off has been provided with a gage, but I do not confine the use of the gage to any one end of the roller. The block 85 6 is secured upon the strips 5 and is provided with an aperture 13 for receiving the shade and roller.

The aperture is made circular around its upper half, but its form in that half is im- 90 material. The lower half forms approximately a right angle at its lowest point. This angular form is for the purpose of providing a firm rest for the round shade while it is being trimmed and the roller sawed off. 95 The same angular form may be applied to the upper end of the piece 7, although it is not as essential as in the knife block. For trimming the shade the desired width a knife 15 is employed. It will be observed 100 that instead of being a straight blade with its pivotal point in the straight part that it is angular and is pivoted through its angular extension, and consequently, the downward movement of its handle will produce 105 a shearing cut upon the shade and leave a smooth even cut with no ragged edges. A pivotal pin 17, is provided for insertion into the aperture 18 in the knife block and the blade is provided with a handle 19 and cut- 110 ting edge 20, the actual cutting part being between the points d, d.

The point upon the shade upon which it is desired to cut the shade in trimming it can be made with pencil before the shade and roller are placed within the aperture 13, 5 and the block is cut out at 22, from its top downward to the aperture 13 for the operator to adjust the mark on the shade to the slot 23 in which the knife is arranged. A slot 24 is provided for receiving a saw with which to cut the roller. The shade is trimmed after being marked and placed within the aperture 13, by swinging the knife by its handle with one hand while with the other hand the shade is turned 15 about  $\frac{3}{16}$  of an inch at each upward movement of the knife until the roller and shade have been turned a complete revolution. After the shade has been cut, the cut off portion is to be removed. This can best be 20 done by removing shade and roller and pulling off the cut off portion. After its removal the shade and roller are to be replaced in the same position as before and with a fine tooth saw inserted in the slot 25 24, the roller is to be sawed off. This completes the operation and the roller and shade can be removed and another inserted for a like operation.

Having described my invention, what I 30 claim and desire to secure by Letters Pat-

ent, is,—

1. A window shade trimmer and roller cutter comprising a frame, a block mounted upon said frame and having an aperture 35 therethrough for receiving said roller with a shade wound thereon and being adapted for supporting said roller and shade therein the lower half of the inclosing walls of said aperture terminating in an approximate right 40 angle at the lowest point thereof, a support for the roller and shade at a point between said block and the end of the roller that is to remain uncut having an open top, a stop for gaging the width of the shade and length the 45 roller is to be cut adjustable toward and from said block, said block having slots arranged parallel with each other across the roller and spaced apart the distance the roller is to be cut off beyond the edge of the shade, a knife 50 blade and a handle thereto pivotally mounted between the side walls of one slot and arranged to trim the shade by an upward and downward movement of the handle thereof and the side walls of the other slot 55 being spaced apart for receiving a hand saw to be reciprocated therebetween for cutting off said roller.

2. A window shade trimmer and roller cutter comprising a frame, a block mounted

upon said frame and having an aperture 60 therethrough for receiving said roller with a shade wound thereon and being adapted for supporting said roller and shade therein, a support for the roller and shade at a point between said block and the end of the roller 65 that is to remain uncut, having an open top, a stop for gaging the width of the shade and length the roller is to be cut adjustable toward and from said block, said block having slots arranged parallel with each other 70 across the roller and spaced apart the distance the roller is to be cut off beyond the edge of the shade, a knife blade having a handle at one end and an angular termination at the other pivotally mounted between 75 the side walls of one slot at a point above the transverse center of the knife blade and beyond a line passing vertically through the roller and arranged to trim the shade by an upward and downward movement of the 80 handle thereof, and the side walls of the other slot being spaced apart for receiving a hand saw to be reciprocated therebetween for cutting off said roller.

3. A window shade trimmer and roller 85 cutter comprising a frame, a block mounted upon said frame and having an aperture therethrough for receiving said roller with a shade wound thereon and being adapted for supporting said roller and shade therein, 90 the lower half of the inclosing walls of said aperture terminating in an approximate right angle at the lowest point thereof, a support for the roller and shade at a point between said block and the end of the roller 95 that is to remain uncut having an open top, a stop for gaging the width of the shade and length the roller is to be cut, adjustable toward and from said block, said block having slots arranged parallel with each 100 other across the roller and spaced apart the distance the roller is to be cut off beyond the edge of the shade, a knife blade having a handle at one end and an angular termination at the other pivotally mounted between 105 the side walls of one slot at a point above the transverse center of the knife blade and beyond a line passing vertically through the reller and arranged to trim the shade by an upward and downward movement of the 110 handle thereof, and the side walls of the other slot being spaced apart for receiving a hand saw to be reciprocated therebetween for cutting off said roller.

EARNEST H. MILLER.

Witnesses:

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