(No Model.)

D. CHASE.

CURTAIN FIXTURE.

No. 422,292. Patented Feb. 25, 1890.

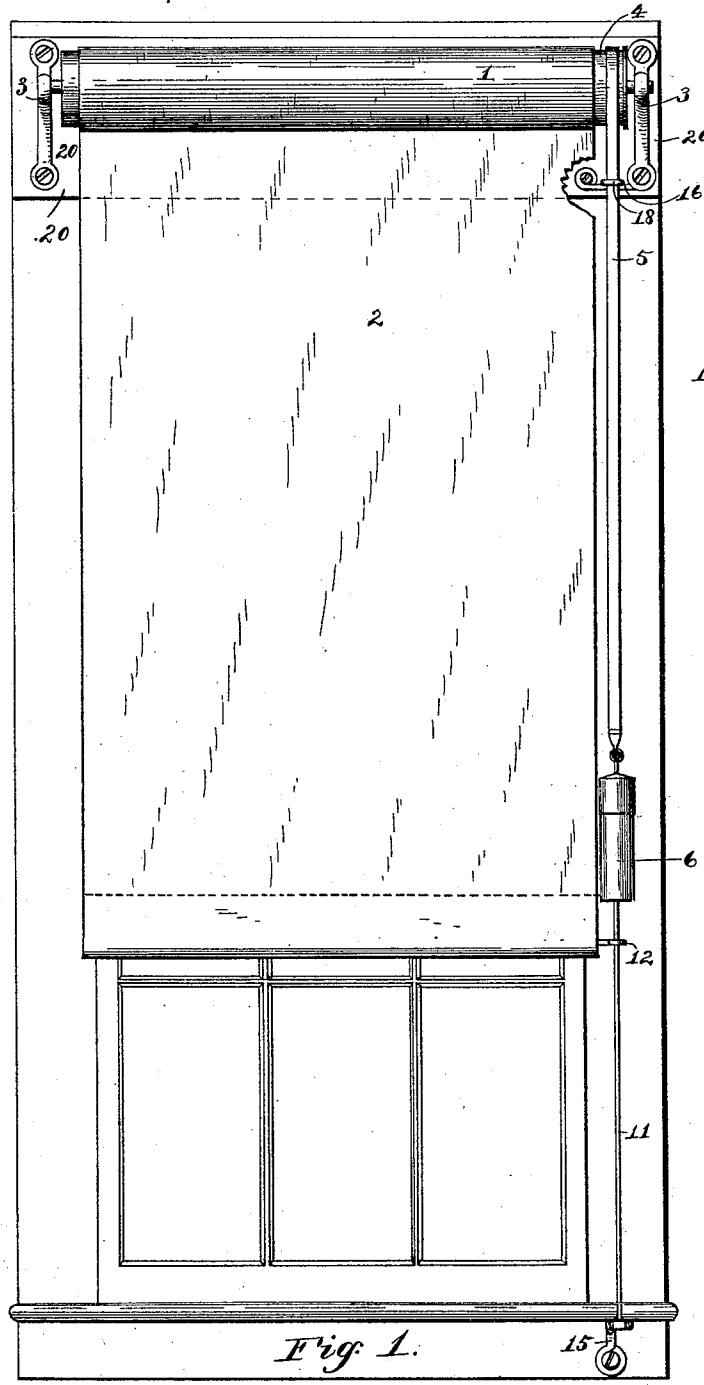


Fig. 1.

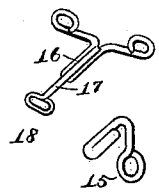


Fig. 3.

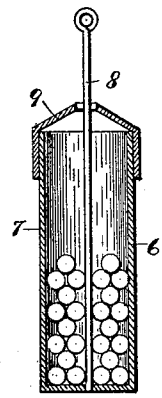


Fig. 4.

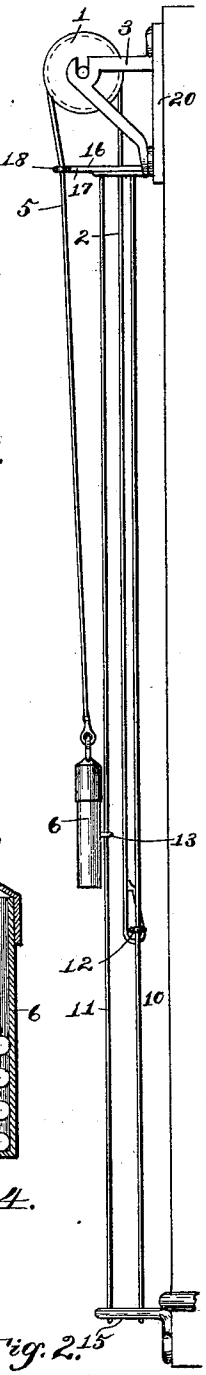


Fig. 2.

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UNITED STATES PATENT OFFICE.

DAVID CHASE, OF MIDDLEPORT, OHIO.

CURTAIN-FIXTURE.

SPECIFICATION forming part of Letters Patent No. 422,292, dated February 25, 1890.

Application filed June 19, 1889. Serial No. 314,845. (No model.)

To all whom it may concern:

Be it known that I, DAVID CHASE, a citizen of the United States, residing at Middleport, in the county of Meigs and State of Ohio, have invented certain new and useful Improvements in Curtain-Fixtures; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in curtain-fixtures; and it has for its object to provide means for balancing the shade and to insure proper coiling of the shade and its weighted cord around the shade-roll, so that should the shade be improperly hung it will still accurately coil or uncoil itself around the roll when the latter is rotated.

With these ends in view, and such others as pertain to my invention, I provide an ordinary shade with a cord which is adapted to be coiled around the shade-roll and has a weighted receptacle at its pendent end, whereby the shade is balanced and is adapted to remain or rest at the elevation to which it is adjusted.

In order to properly coil and uncoil the shade and to avoid interference of the shade and its counterbalancing-weight, which weight moves in an opposite direction from the shade, I provide two vertical guide rods or wires, which are arranged on one side of the window-jamb parallel with each other. Said guide-wires receive eyes which are fitted around the wires and are attached, respectively, to the lower end of the shade and to the counterbalancing-weight, and said guide-wires are attached at their lower ends to a single fixed bracket and at their upper ends to a horizontal fixture, which is provided with a horizontal extended arm provided with an eye, through which the weighted curtain-cord is passed and guided, all as will be more fully described hereinafter.

To enable others to understand my invention, I will now proceed to a detailed description thereof in connection with the accompanying drawings, in which—

Figure 1 is a front elevation. Fig. 2 is a side elevation, and Figs. 3 and 4 are detached detail views.

Like numerals of reference denote corresponding parts in all the figures of the drawings, referring to which—

1 designates an ordinary shade-roll, 2 the shade thereof, and 3 the usual fixtures in which the shade-roll is journaled. One end of this shade-roll is extended beyond the edge of the shade, as at 4, or said roll may be provided with a pulley, which is fixed to the end of the roll, as is obvious, in order to receive a weighted cord or band 5, which is coiled around the shade-roll and connected in any suitable way thereto in order to balance the shade. The pendent or lower end of this cord or band is provided with a weight 6, which I prefer to make in the form of a hollow receptacle 7, having a central stem or rod 8 attached to its bottom and to the cord or band, and a removable cover 9, which is adapted to be fitted over said receptacle to close the latter, and has a perforation in its upper end for the passage of the central stem or rod therethrough, the cover being adapted to slide on said stem in removing it from the receptacle and replacing it thereon. This receptacle I provide with a heavy substance, preferably metallic shot, so that the weight or heaviness thereof can be readily varied to adapt the counterbalancing-weight to shades of different heaviness.

10 11 designate the vertical guide wires or rods which are arranged at one side of the shade and parallel with each other, the wires or rods being separated a suitable distance to adapt the eyes 12 13 on the shade and weight to pass each other without interference, the eye 12 being suitably fixed to the end of the bar in the lower end of the shade 2 and the other eye 13 being fixed laterally to the receptacle 7 of the counterbalancing-weight. These guide wires or rods are supported by brackets 15 16, which are suitably fixed to the jamb at the upper and lower ends thereof and in the vertical plane of one of the fixtures of the shade. The lower bracket 15 is preferably made of a single piece of wire, which is bent to form the horizontal and vertical arms, the vertical arm being provided with an eye through which a screw is passed to secure the bracket in place, while to the horizontal arm of said bracket is secured the lower ends of the vertical guide-

wires. The upper bracket 16 is arranged in a horizontal position, the end of one arm thereof being fitted beneath one end of the fixture 3, and is secured in place by the same screw that secures said end of the fixture, while the other end of the bracket is secured to the jamb by a separate screw, the upper ends of the spaced parallel wires being secured to this horizontal bracket in any suitable way. Said upper bracket is provided with an extended arm 17, which has a guide loop or eye 18 at its outer extremity, that is located in a vertical plane slightly beyond the shade-roll, the cord or band 4 passing through this guide loop or eye just before it passes around the shade-roll, and is thereby guided so as to properly coil itself around said roll.

The operation of my invention is obvious. The shade can be pulled down to any desired elevation, and is held in such position by the counterbalancing-weight, and by pulling down the cord or band the shade-roll is rotated to coil the shade around the same. When the shade is elevated, the weight is lowered, and vice versa, and both the shade and cord or band are properly guided to accurately coil themselves around the shade-roll and at the same time without interference with each other, the shade being guided by its fixed eye, that slides over the wire or rod 10, and the cord or band by means of the loop on the arm 17 and by the eye on the weight 6 at the lower end of said cord, said eye sliding over the guide-wire 11 without coming in contact with the eye on the shade and serving to hold the weight out of the path of the shade.

With the guide-wires, the shade, and weighted cord or band arranged as shown and described herein, the shade and cord are properly coiled around the shade-roll at all times, even if the shade is improperly hung or arranged out of plumb, as is obvious.

In order to facilitate the adjustment or application of the shade to the window-casing and enable it to be applied by an unskilled person, as well as to avoid marring the appearance of the window-casing when the shade is taken down in removing from one house to another, I secure the brackets 3 for the shade-roll and the upper bracket 16 of the guide-wires to a horizontal batten or strip 20. This batten or strip is of such dimensions as to receive and support the shade-roll and its fixtures, and it can be very easily secured in an expeditious manner, by two screws, in a horizontal position on the upper part of the window-casing in the place usually occupied by the shade-fixtures.

The shade-fixtures, upper bracket for the guide-wires, and the shade and its guide and operating appliances can be applied to the batten or strip and placed in this condition for sale on the market, so that it is only necessary for the purchaser to secure the batten to the window-casing, secure the lower bracket 15 in place, and adjust the shade and its cord on their respective guide-wires.

I do not restrict myself to the exact details of construction and form and proportion of parts, as I am aware that slight changes therein can be made without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a shade-roll and a shade, of the lower and upper brackets 15 and 16, the vertical parallel guide-wires 10 and 11, fixed to said brackets, a horizontal extended arm 17, rigid with the upper bracket and having an eye or loop 18 at its outer end, which is arranged in the vertical plane of the shade-roll and beyond both guide-wires, a cord passing through the eye 18 and coiled around the shade-roll, an exposed weighted receptacle 6, secured to the cord and having an eye which fits over one of the guide-wires, and another guide-eye secured to the shade and fitting over the other guide-wire, substantially as described.

2. The combination, with a shade-roll and its attached shade, of the upper and lower brackets, the parallel vertical wires attached to the brackets, the cord, an exposed weighted receptacle attached to said cord and having a guide-eye which fits over one of the guide-wires, and another guide-eye attached to the shade and fitted over the other guide-wire, substantially as described.

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

DAVID CHASE.

Witnesses:
O. A. ROWLEY,
JAMES H. RALSTON.