

(No Model.)

D. F. McDONALD.

DEVICE FOR ADJUSTING WINDOW CURTAINS.

No. 442,590.

Patented Dec. 9, 1890.

Fig. 1.

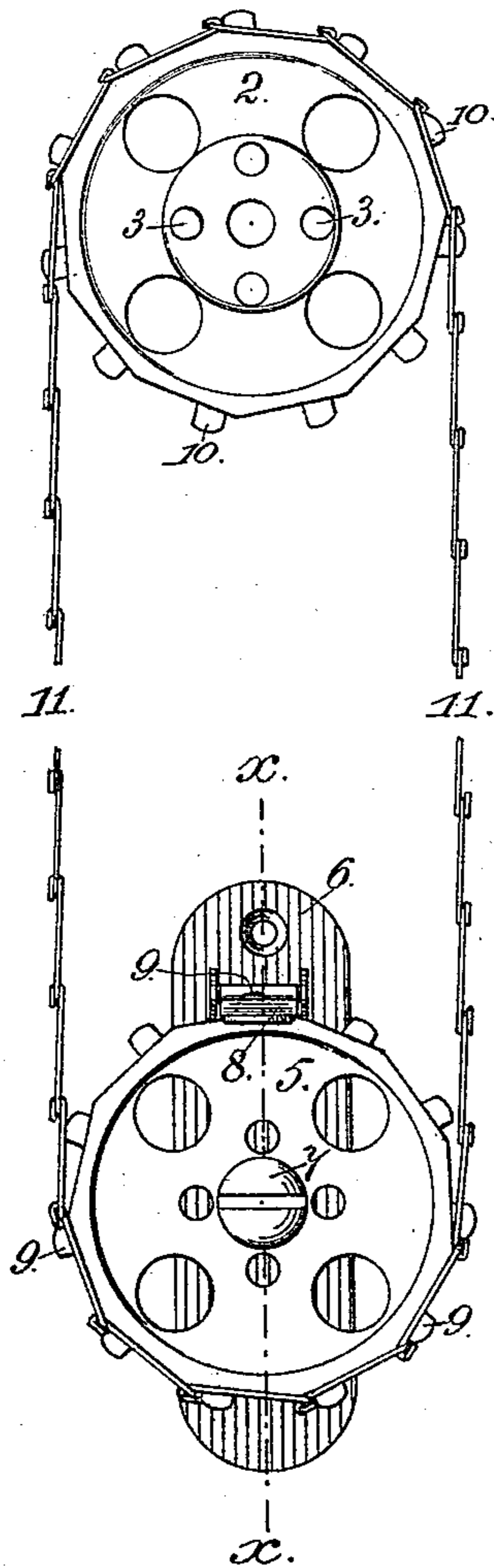
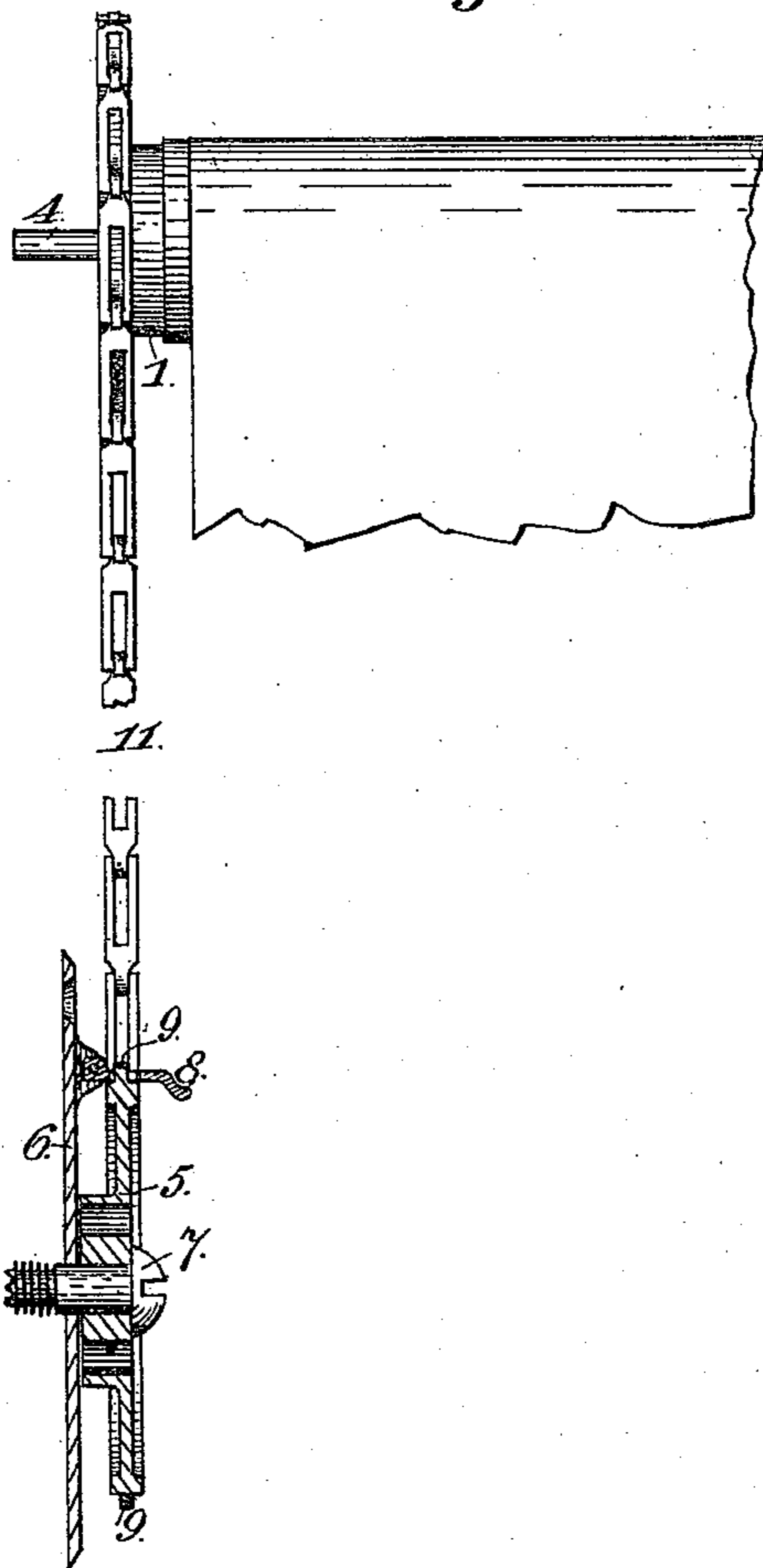


Fig. 2.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

DUNCAN F. McDONALD, OF BERKELEY, CALIFORNIA.

## DEVICE FOR ADJUSTING WINDOW-CURTAINS.

SPECIFICATION forming part of Letters Patent No. 442,590, dated December 9, 1890.

Application filed September 21, 1889. Serial No. 324,666. (No model.)

*To all whom it may concern:*

Be it known that I, DUNCAN F. McDONALD, a citizen of the United States, residing at Berkeley, in the county of Alameda and State of California, have invented certain new and useful Improvements in Devices for Adjusting Window-Curtains; and I do 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in window-curtain adjusters; and the object of my invention is to provide a device of simple construction, economical in cost, durable, easily operated, and reliable; to which end my invention consists of the features hereinafter described and claimed.

In the drawings is illustrated an embodiment of my invention, in which—

Figure 1 is a side elevation of my improved device, showing the same in position for use, but not attached or secured to the window-casing or the curtain-roller. Fig. 2 is a vertical section of the lower part of the device, taken on the line *x x*, Fig. 1, the upper portion being shown in front elevation secured to the curtain-roller.

In the views let the reference-numeral 1 indicate a curtain-roller, to one end of which is secured a sprocket-wheel 2, which is made stationary on the end of the roller in any suitable manner, as by nails or screws passing through openings 3 in the sprocket-wheel. The roller is provided with a journal 4 in each extremity thereof, by means of which the roller is secured in bearings in the casing.

5 is a second sprocket-wheel suitably secured to a plate 6, said plate being made fast to the window-casing at a suitable distance below the roller. A screw 7, passing through wheel 5 and plate 6, affords means of securing the plate to the casing, and also forms an axis for wheel 5.

8 is a locking device hinged to plate 6 and adapted to engage the pins or cogs 9 of the wheel 5 for the purpose of locking the device when desired.

11 is an endless chain working on wheels 2 and 5, the links of the chain being adapted to engage the pins 9 and 10 of the wheels 5 and 2.

In the use of my improved device the curtain is adjusted to any height desired by taking hold of the chain and raising up or pulling down, according as it is desired to raise or lower the curtain, which when properly adjusted may be held or locked in this position by the use of the device 8, which is thrown over wheel 5, this locking device being adapted to engage a pin 9 upon the wheel 5, or to engage the wheel between two pins 9, the locking-plate being of sufficient width to fit snugly between two pins 9. When it is desired to raise or lower the curtain, the lock is raised from its engagement with wheel 5 and the chain again used, as before described.

Having thus described my invention, what I claim is—

In a window-curtain adjuster, the combination, with the curtain-roller, of a sprocket-wheel 2, made fast to one end of the roller, a plate 6, made fast to the window-casing at a suitable distance below the roller, a sprocket-wheel 5, pivoted to plate 6, a chain having links adjusted to engage the pins in wheels 2 and 5, and a locking device 8, hinged to plate 6 and adapted to lie across the periphery of wheel 5, said device being provided with an aperture for the reception of a lug of the wheel, and also so fashioned as to fit nicely between two lugs of the wheel when in the locking position, substantially as described.

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

DUNCAN F. McDONALD.

Witnesses:

R. J. VAN VALKENBURG,  
S. BARNHILL.