

(No Model.)

G. B. MASSEY.  
CAR WINDOW SHADE.

No. 311,906.

Patented Feb. 10, 1885.

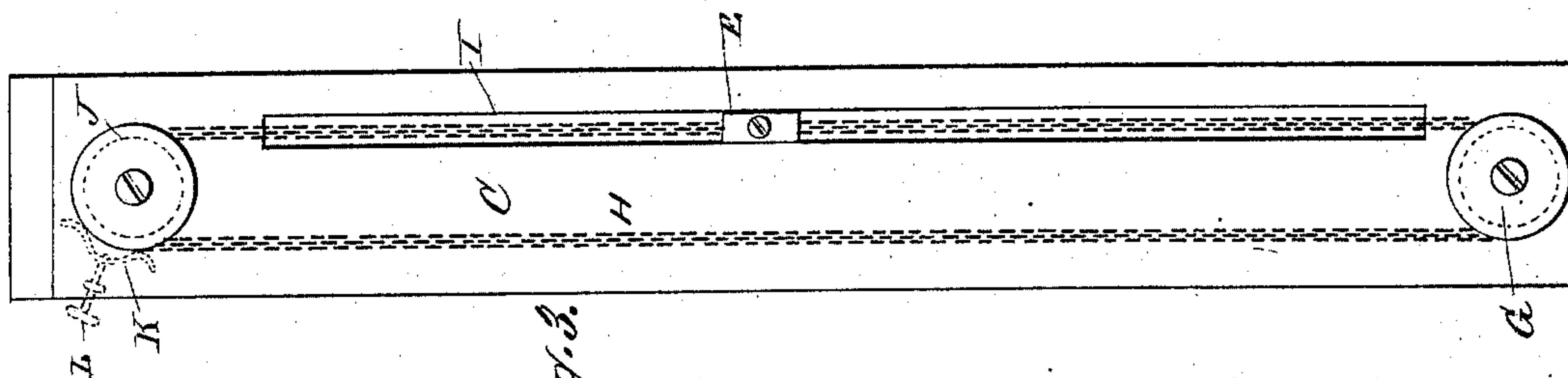


Fig. 3.

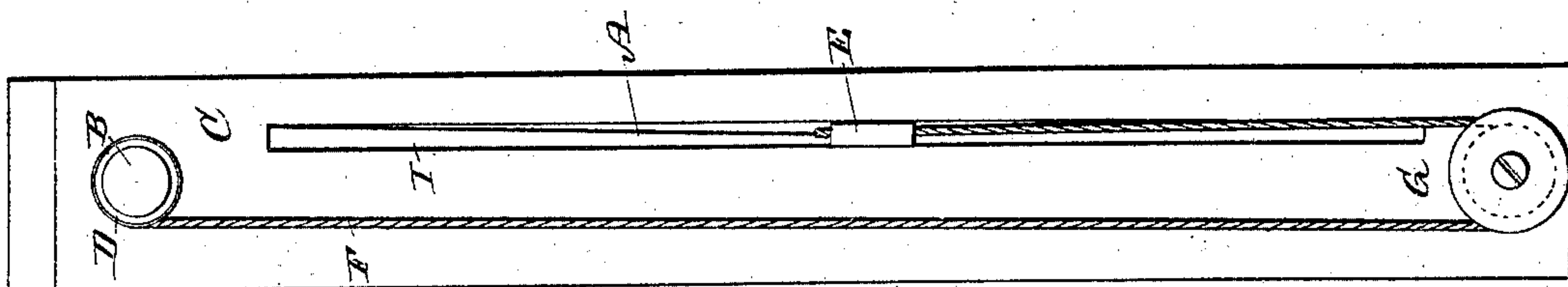


Fig. 2.

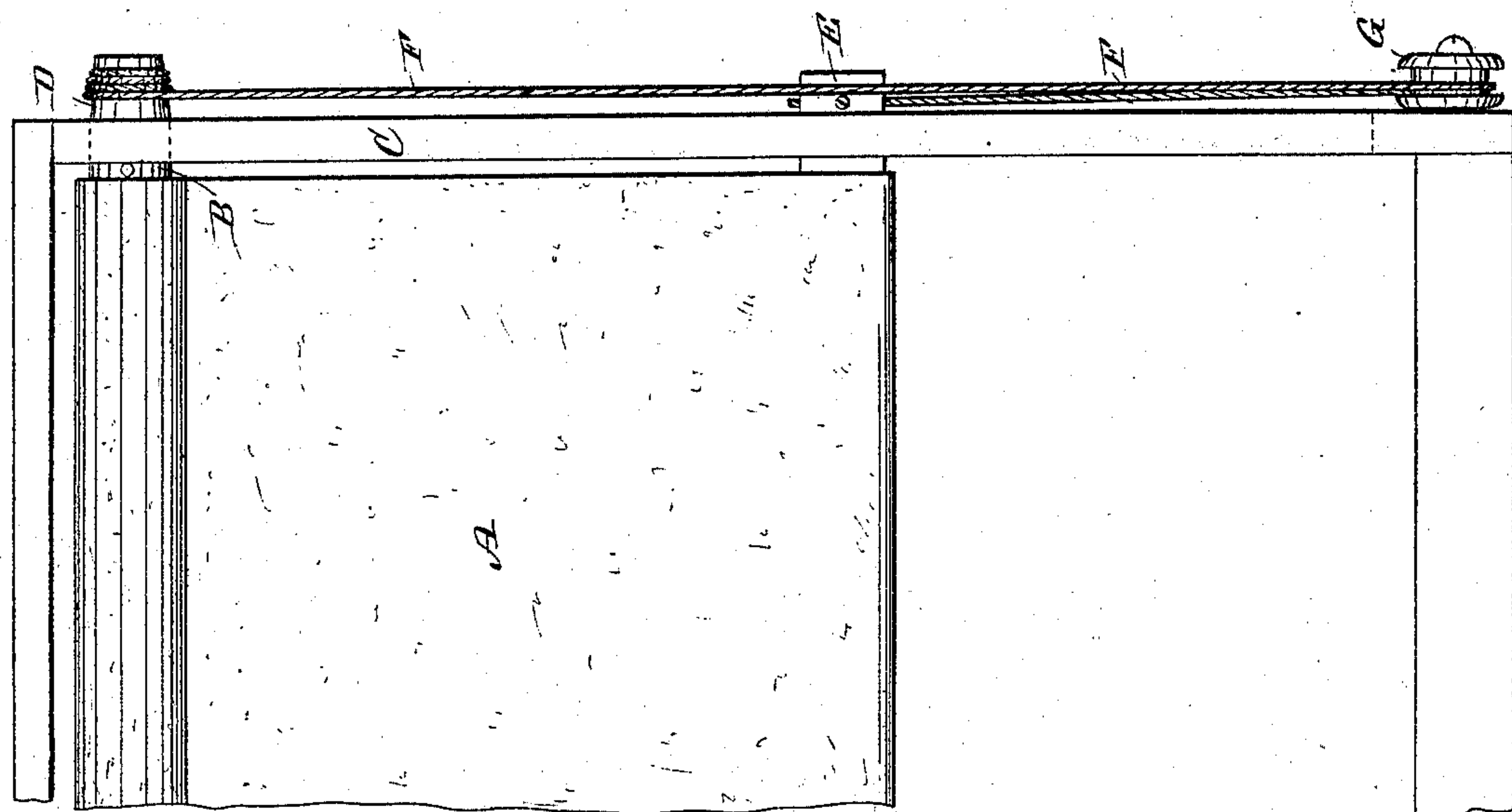


Fig. 1.

WITNESSES:

*Theo. G. Hoster*  
*C. Sedgwick*

INVENTOR:

*G. B. Massey*  
BY *Munn & Co*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

GIDEON B. MASSEY, OF MOUNT VERNON, NEW YORK.

## CAR-WINDOW SHADE.

SPECIFICATION forming part of Letters Patent No. 311,906, dated February 10, 1885.

Application filed April 8, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, GIDEON B. MASSEY, of Mount Vernon, in the county of Westchester and State of New York, have invented a new and Improved Car-Window Shade, of which the following is a full, clear, and exact description.

The object of my invention is to provide certain new and useful improvements in car-window shades whereby the said shades can be held easily in any desired position.

The invention consists in the combination, with a shade-roller and a shade secured to the same, of a vertically-slotted guide-standard, into the slots of which the ends of a strip secured on the free end of the curtain pass. Cords or wires are secured to the corresponding ends of the strip and roller, and pass over suitable pulleys.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a face view of part of a car-window shade provided with my improvement. Fig. 2 is an end view of the same, and a side view of the guide-strip for the shade. Fig. 3 is a side view of the strip, showing a modified construction.

The shade A is secured on a roller, B, journaled in the upper ends of standards C, the ends D of the roller projecting through the standard.

To the bottom edge of the shade a strip, E, is secured, the ends of which pass through vertical guide-slots I in the standards.

To each projecting end of the strip E a cord, F, is fastened, which passes over a grooved pulley, G, pivoted on the outer surface of the corresponding standard, C, at the bottom of the same, and which cord F has its opposite end secured to the corresponding projecting end of the roller B.

If the shade is pulled down, the cords F are wound on the projecting ends D of the roller B, and if the shade is raised and the strip E is pulled up the cords F are unwound from the ends D of the roller A. The friction of the cord on the ends of the roller and on the pulley G is sufficient to hold the shade in place. The ends D of the shade-roller are tapered, so that the tension of the cords F will remain uniform, for, as the diameter of the roller increases as more of the shade is wound

on it, the end of the roller must be beveled, so that more of the cord will be wound on the roller as rapidly as the shade is unwound, and, vice versa, as the shade is wound on the roller and the same increases in thickness, a comparatively smaller quantity of the cord must be unwound from the roller.

In place of the cords F, chains H may be used, which have their ends secured to the top and bottom edges of the projecting ends of the strip E, and these chains are passed over pulleys J on the ends of the roller, and the pulleys G on the bottoms of the standards C. The pulleys J are grooved or formed as sprocket-wheels. A brake-spring, K, rests against the roller, and is provided with an adjusting-screw, L, by means of which brake-shoe the friction on the roller can be adjusted as desired to hold the shade at any desired height. In place of the cords F, wire cables or wires may be used. Coiled-wire belting can be used in place of the cord F or chain H, which belting is secured to the bottom strip of the curtain and to the roller, or is passed around the pulley on the roller and the bottom pulley. If the coiled-wire belting is used, no compensating device need be provided, as the wire belting stretches sufficiently to compensate for the number of windings around the end of the roller.

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

1. The combination, with a shade-roller having tapered ends, and a shade secured on the said roller, of the standards C, having vertical guide-grooves I, the strip E, secured to the bottom of the curtain and having its ends passed through the slots I, the pulleys G at the lower ends of the standards, and the cords F, secured to the ends of the roller and to the ends of the strip E, substantially as herein shown and described.

2. The combination, with a shade-roller and a shade secured to the same, of a vertically-slotted standard, a strip secured to the shade and projecting through the vertical slots of the standards, and of cords or ropes secured to the rollers and to the said strip and passing around pulleys, substantially as herein shown and described.

GIDEON B. MASSEY.

Witnesses:

C. SEDGWICK,  
EDWARD M. CLARK.