W. C. HICKS.

Improvement in Curtain-Fixtures.

No. 128,489. Patented July 2, 1872.

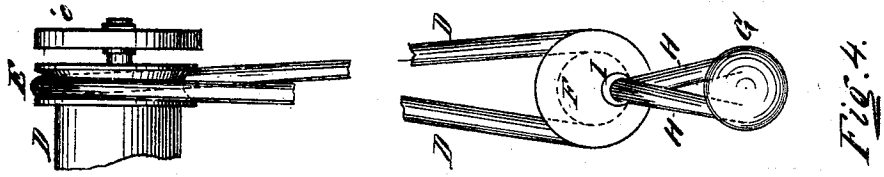

Fig. 4.

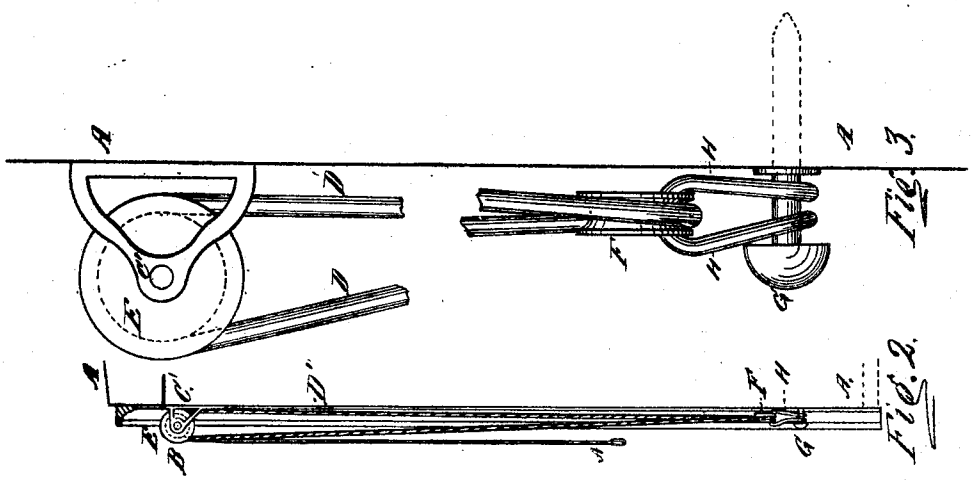

Fig. 3.

Fig. 2.

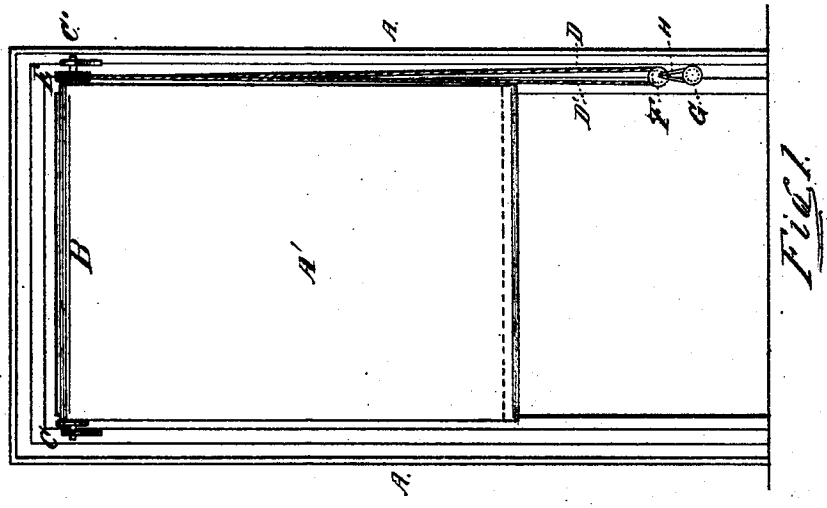

Fig. 1.

Witnesses:

Treadwell Cleveland

John Hicks

Inventor:

Wm Cleveland Hicks

UNITED STATES PATENT OFFICE.

WILLIAM CLEVELAND HICKS, OF SUMMIT, NEW JERSEY.

IMPROVEMENT IN CURTAIN-FIXTURES.

Specification forming part of Letters Patent No. 128,489, dated July 2, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, WM. CLEVELAND HICKS, of Summit, in the State of New Jersey, have invented a new and useful Improvement in Curtain-Fixtures; and that the following is a full, clear, and exact description and specification of the same.

The object of my invention is to render more convenient to use, more durable, and less liable to get out of order, the curtain-fixtures now in use, which are provided with a roller for winding and unwinding the shade, bearings attached to the window-frame for the support of said roller, a grooved pulley attached to the roller, over which an endless cord is passed for the purpose of revolving the roller, and an eye or staple in the window-frame to receive the endless cord, and ordinarily made adjustable to produce friction on the pulley of the roller, through the endless cord. To this end my invention consists of certain combinations and arrangements of the roller, endless cord, and staple in the window-frame, with an additional grooved pulley or eye and a spring, which tends to produce an elastic or yielding pressure on the roller through the endless cord, instead of the unyielding pressure ordinarily applied. These combinations are specified at the end of this schedule.

Figures 1 to 4, inclusive, represent views of my improvement attached to the curtain and its fixtures, in which A is the window-frame; B, the roller; C C′, the bearings for the roller on the window-frame; E, the grooved pulley; D D′, the endless cord which operates the roller; G, the staple in the window-frame; F, the pulley; and H, an endless elastic cord. Figs. 3 and 4 represent enlarged views of said fixtures, the endless roller-cord being broken and the parts placed nearer together. The pulley or eye F is provided with a small hole, I, made through it, between the center and circumference. Through this hole an endless elastic cord is passed double, so that two loops are formed, one on each side. These loops are then placed over the staple G by stretching them enough to produce the proper strain on the roller-pulley of the curtain A′, to prevent the curtain from dropping by gravity, to cause it to be wound up when the cord D′ is pulled downward, and to take up slack which would be made by the stretching of the curtain-cord. The grooved pulley F is made of any suitable material, and the spring H may be made of rubber or any elastic substance. The eye or pulley F does not revolve, and the eccentricity of the hole I is for preventing such an action.

The operation of my improvement is as follows: Supposing the curtain to be in the position shown in Figs. 1 and 2 of the drawing, by pulling the part of the cord D′ downward the curtain will be raised; by pulling the cord at D it will be lowered; but if we take hold of the part D and D′ and raise the pulley F slightly, so as to overcome the force of the spring H, the curtain will rapidly fall by its gravity. This is a very convenient feature of my improvement, and saves time and much wear of the endless cord D D′.

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

1. The combination, substantially as herein set forth, of a curtain-roller, endless cord, staple, and non-revolving grooved pulley or eye, and a double-looped elastic band for the purpose of producing an elastic or yielding pressure through said endless curtain-cord on the curtain-roller.

2. The combination, substantially as herein set forth, of a non-revolving grooved pulley or eye (arranged to receive a double-looped elastic band) with such an elastic band, for the purpose of producing an elastic or yielding pressure on a curtain-roller.

WM. CLEVELAND HICKS.

Witnesses:
JAMES MCDERMOTT,
JAS. M. HICKS.