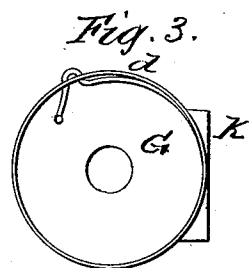
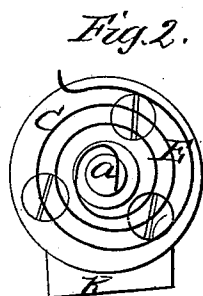
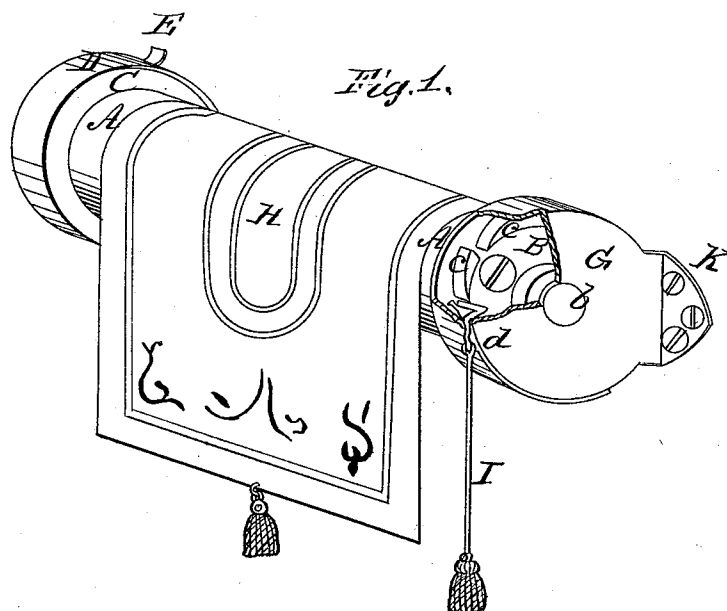


*G. R. Kelsey,*  
*Curtain Fixture,*  
*Nº 33,708,                      Patented Nov. 12, 1861.*



*Witnesses,*  
*Charles E. Thompson*  
*R. L. Stryguld,*

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# UNITED STATES PATENT OFFICE.

GEORGE R. KELSEY, OF WEST HAVEN, CONNECTICUT.

## IMPROVED CURTAIN-FIXTURE.

Specification forming part of Letters Patent No. 33,708, dated November 12, 1861.

*To all whom it may concern:*

Be it known that I, GEORGE R. KELSEY, of West Haven, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Curtain-Fixtures for Cars, Coaches, &c., as a new article of manufacture; and I do hereby declare that the following is a full, clear, and exact description of the construction, character, and operation of the same, reference being had to the accompanying drawings, which make part of this specification, in which—

Figure 1 is a perspective view of the fixture complete, except that one of the ends is broken away in part to show the ratchet-wheel and the spring-ratchet inside. Fig. 2 is a plan of the spring end of the fixture with the cap removed, showing the spring in its position. Fig. 3 is a plan of the inside of the cap of the ratchet-wheel end of the fixture, showing the spring-ratchet all inside.

My improvement consists in using the common volute or coiled spring to roll up the curtain, and a ratchet-wheel and spring-ratchet, as hereinafter described, to hold the curtain at the desired height.

I make the curtain-roller A A of wood or any other suitable material, either solid or hollow, and I fit disks of metal, as shown at B, Fig. 1, and at C, Figs. 1 and 2, on the ends of the roller, which contain or sustain the journals on which the roller revolves, as shown at b, Fig. 1, and at a, Fig. 2. For the end C of the roller I make a cap, as shown at D, Fig. 1, which passes onto the disk C, Figs. 1 and 2, and incloses the volute or coiled spring E, Fig. 2, (which is secured as represented in Fig. 2 or by any other well-known means,) so that when in use that end will appear as represented at C D E, Fig. 1. At the other end, on the disk B, I fit a ratchet-wheel or cast on or attach to the disk B blocks which serve as a ratchet-wheel, as represented at c, &c, Fig. 1. For this end I also make a cap, as G, Fig. 1, (also shown in plan in Fig. 3,) which furnishes the bearing for the journal b and support for the spring-ratchet, as shown at d, Fig. 1, when attached to the outer side of the cap, and, as shown at d, Fig. 3, when attached to the inner side of the cap, which spring-ratchet I make and attach substantially as represented in Fig. 1, or as shown in Fig. 3.

Having constructed the several parts of the fixture, as before described, I secure the curtain, as II, to the roller A A in the usual way and attach a cord, as I, to the spring-ratchet, as shown at d. I attach the inner end of the coiled spring E to the journal portion of the roller, as indicated near a, Fig. 2, and the outer end to the cap D, as indicated at E, Fig. 1, when the whole will be ready to put up for use, all as shown in Fig. 1. I secure this fixture to the window-frame by means of screws through brackets or ears, as shown at K, Fig. 1, or by any other suitable means. By drawing down the curtain H I revolve the roller A A, which winds up the spring E, and the spring-ratchet d will hold or retain the roller in any desired position. When I wish to roll up the curtain, I draw back the spring-ratchet d by means of a cord, as I, or by any other convenient means, and allow the spring to roll up the curtain as far as is desired.

The advantages of my improvement consist in the cheapness and simplicity of its construction, as the spring-ratchet is made of one piece and so formed and attached that no accident can occur from pulling too hard or too sudden on the cord, for, from the shape of the point of the ratchet and its position within the cap, it cannot be drawn out of place.

I am aware that coiled springs have long been used for rolling up "tape-measures," curtains, &c., and that ratchet-wheels and spring-ratchets are well known. I therefore do not claim either of these as such as my invention; but

What I claim as my invention, and desire to secure by Letters Patent, is—

The curtain-fixture consisting of the roller fitted with its disks and caps and operated by the coiled spring, ratchet-wheels, and spring-ratchet, when the whole is constructed, arranged, and fitted for use substantially as herein described.

GEO. R. KELSEY.

Witnesses:

CHARLES E. THOMPSON,  
R. FITZGERALD.