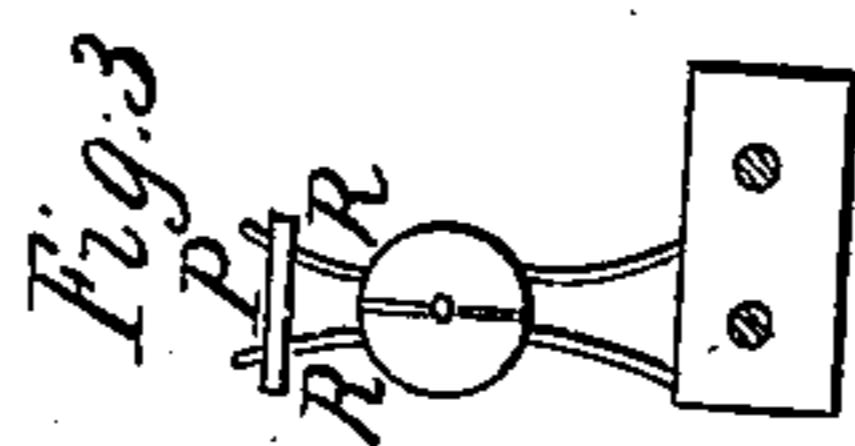
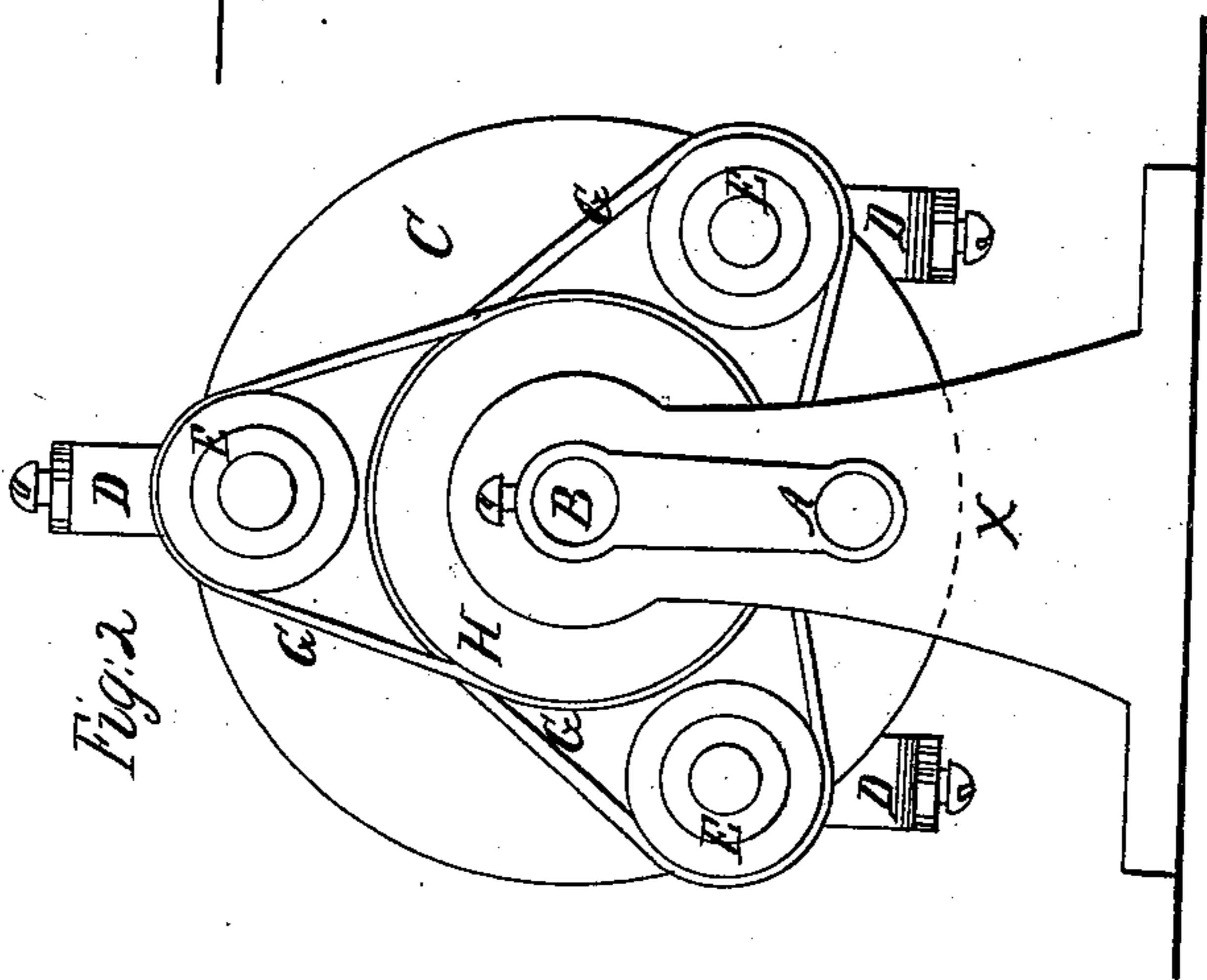
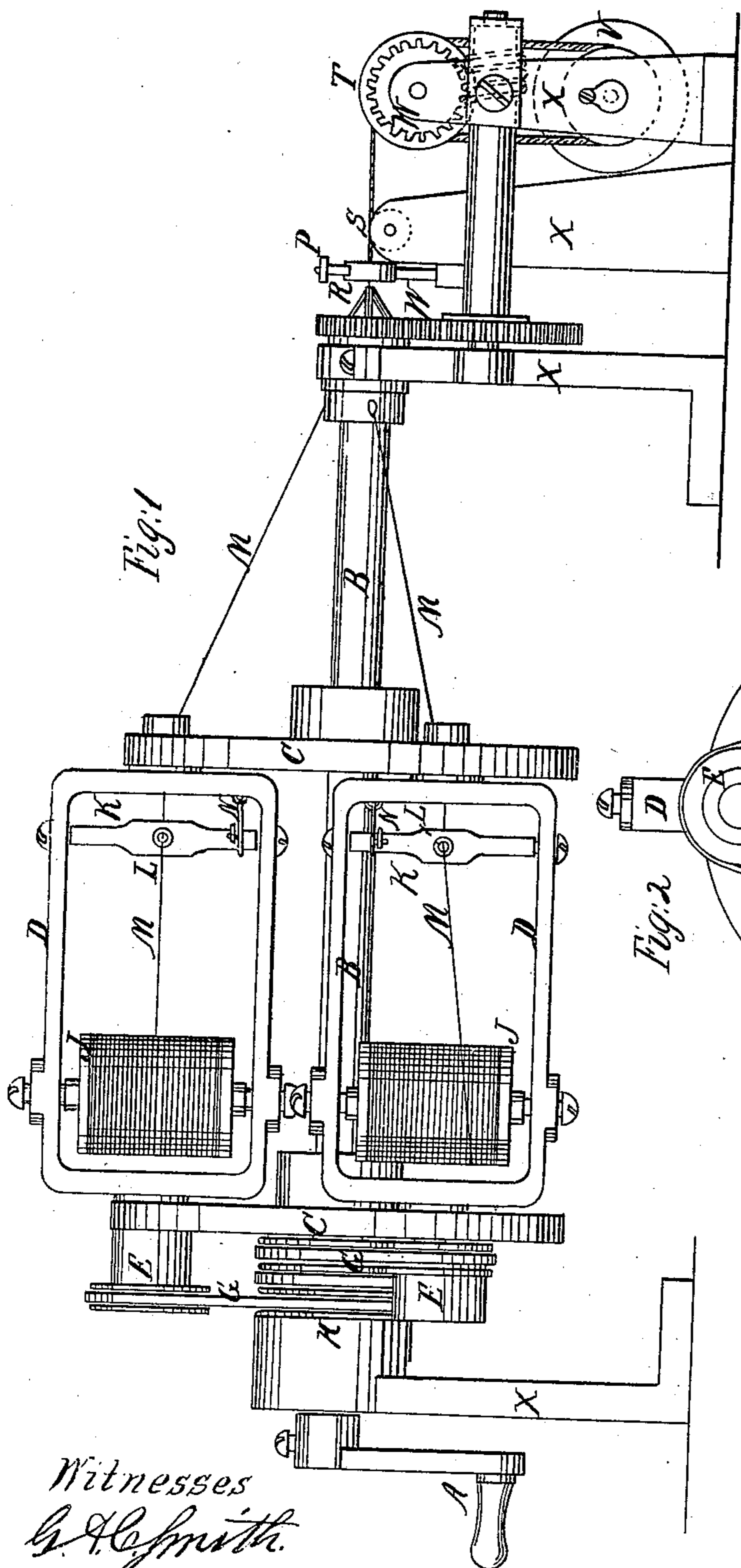


H. Perkins.
Mach. for Making Rope.
No. 40,466.
Patented Nov. 5, 1867.



Witnesses
G. H. Smith.
Theodore Lang.

Inventor
Howard Perkins

United States Patent Office.

HOWARD PERKINS, OF MANSFIELD, MASSACHUSETTS.

Letters Patent No. 70,466, dated November 5, 1867.

IMPROVEMENT IN ROPE-MAKING MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, HOWARD PERKINS, of Mansfield, county of Bristol, and State of Massachusetts, have invented new and useful Improvements on Machines for Making Rope, Cordage, Twine, or Fishing-Line; and I do hereby declare the following to be an exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification, in which—

Figure 1 represents a side elevation of the machine.

Figure 2, an end view of the rear part of the machine.

Figure 3, the adjustable springs, with their elastic holder or clamp, that yield and open to allow a knot or obstruction on the cord to pass through.

The nature of my invention consists in the construction of the self-adjusting regulators that control and regulate the tension of the strands or threads of the cord between the spools and the point where the strands unite and are convolved; also the adjustable springs, as controlled by the elastic holder or clamp at top.

A represents the crank or power that operates the horizontal shaft B of the cylinder C, in which the flyers D D D revolve. E E E are three pulley-wheels operating on the rear end of the cylinder C and driven by belts G G G surrounding the belt-wheel H. The wheels E revolve the flyers D, the spools J and adjustable regulators K operating therein. The adjustable regulator K is round at each end and square at its centre, with a countersunk aperture, L, in the centre through which the strand or thread M passes. The ends of the regulator K operate on pivot points that have set-screw heads, so as to remove or adjust the regulator to operate free or tight, as required. An elastic spring or cord, N, is attached to the regulator K, wound once round it, and then connected permanently to the frame of the flyer D, which serves to press the square sides of the centre of the regulator against the strand or thread, to stretch and give tension to the thread, with an easy yielding operation and effect. P is an India-rubber or elastic holder or clamp that is fitted over the top ends of the springs R R, and holds the ends together as a link or band, yet allows the springs to open and yield to a knot or obstruction on the cord so as to pass between the springs. As the strands M unite and convolve at the point of the shaft B the cord is formed and passes over a pulley, S, and around the grooved wheel T, thence to the reel V, that are operated by the gearing W. X represents the upright frame that supports the devices.

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

The self-adjusting regulators K, constructed as described, in combination with their elastic cords, N, as and for the purposes set forth.

HOWARD PERKINS.

Witnesses:

J. FRANKLIN REIGART,
JOHN S. HOLLINGSHEAD.