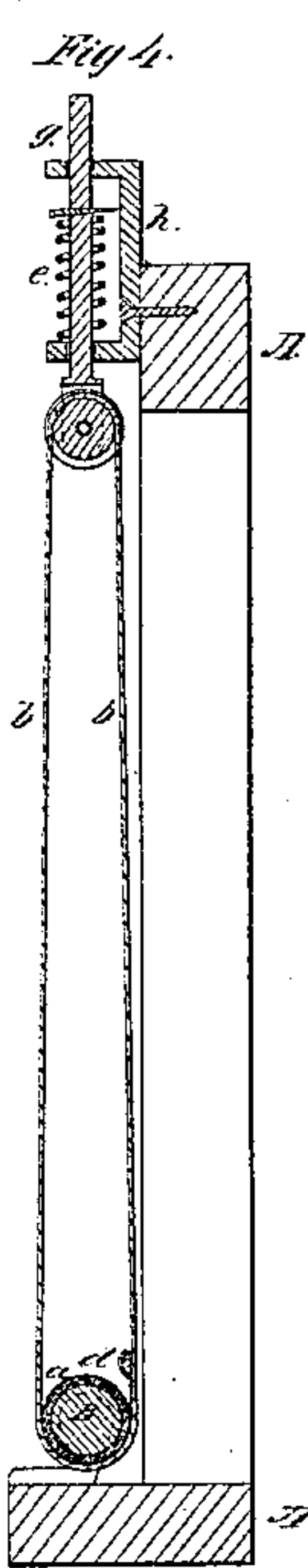
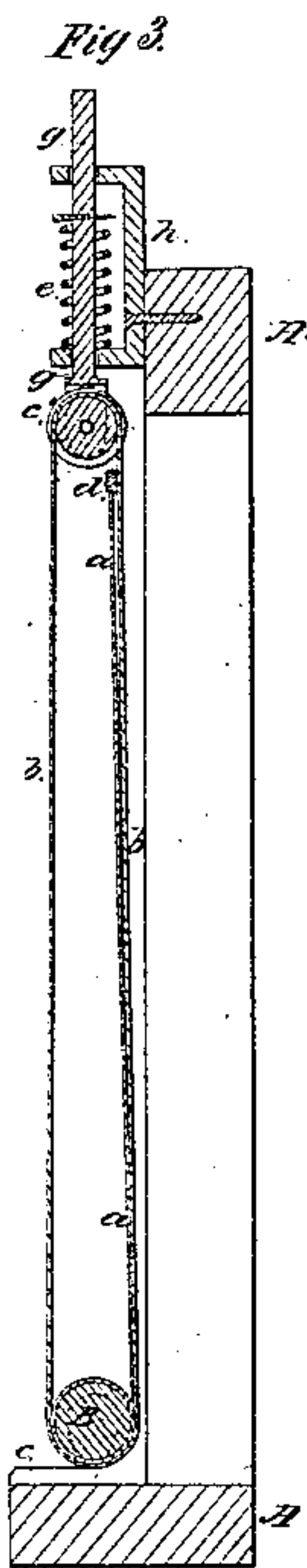
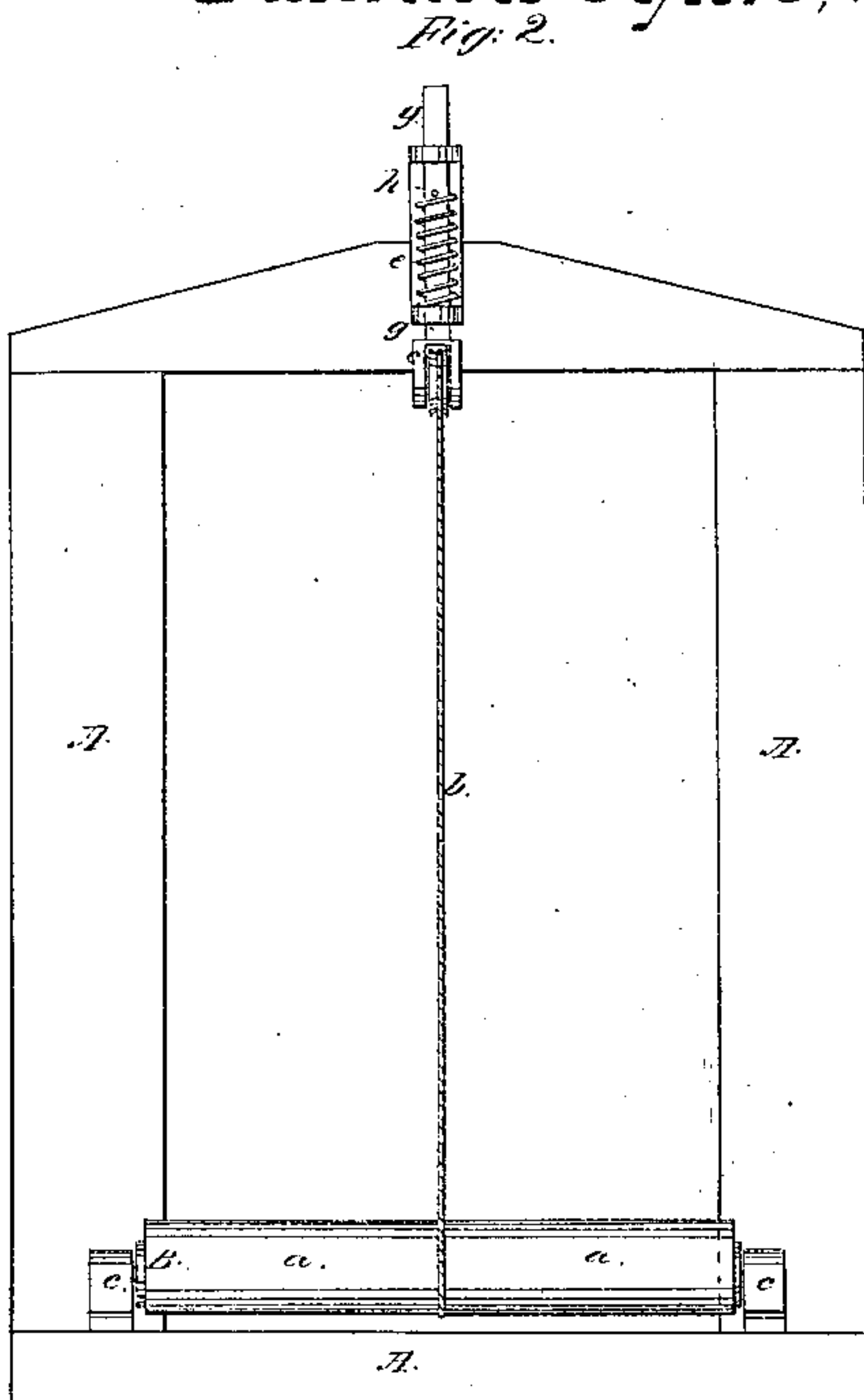
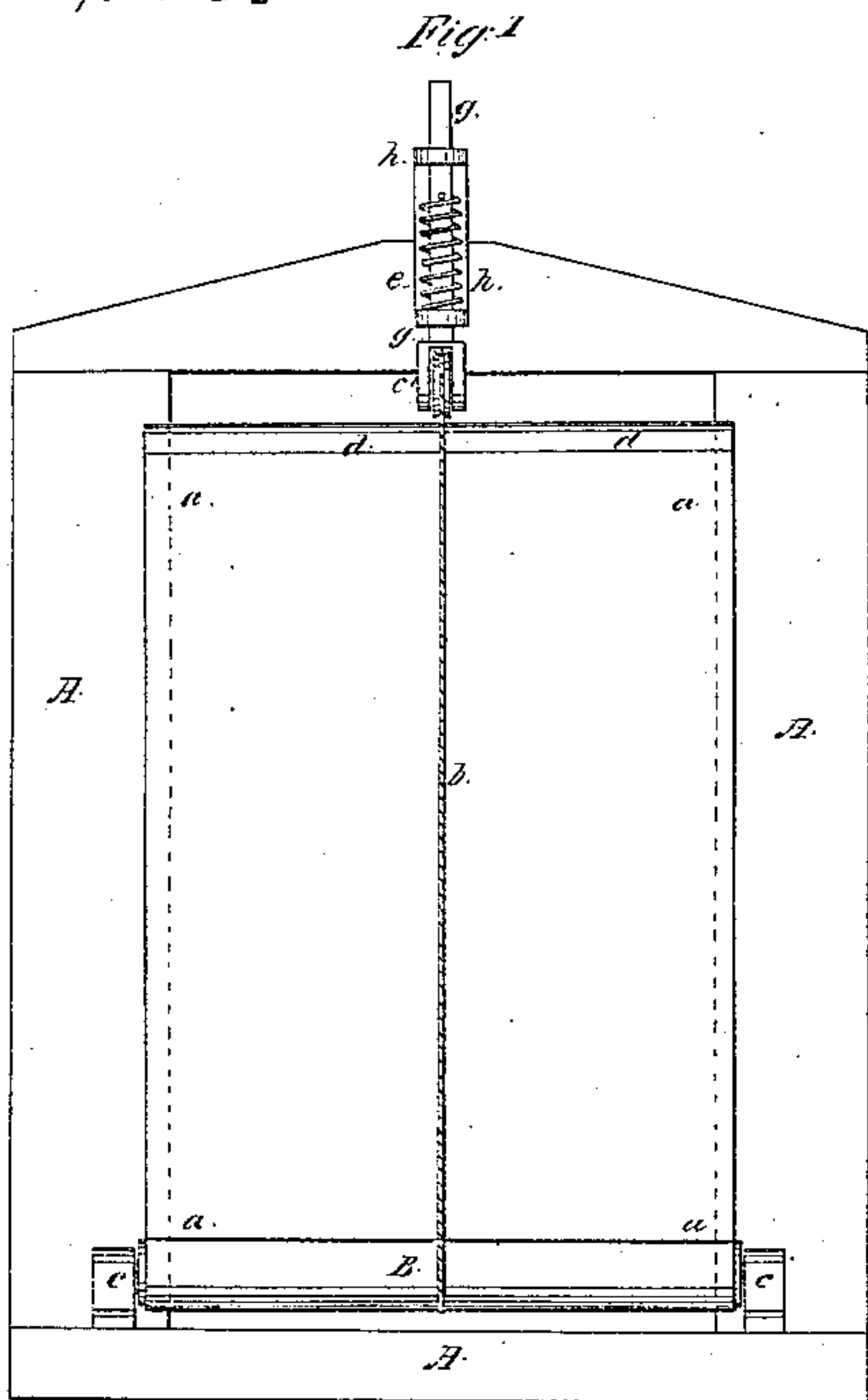


J. B. Tarr, Curtain Fixture

N^o 53,703.

Patented Apr. 3, 1866.



Witnesses.
W. Humphreys
Edw. Schaefer

Inventor.
J. B. Tarr
by
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UNITED STATES PATENT OFFICE.

JOHN B. TARR, OF CHICAGO, ILLINOIS.

IMPROVED CURTAIN-FIXTURE.

Specification forming part of Letters Patent No. 53,703, dated April 3, 1866.

To all whom it may concern:

Be it known that I, JOHN B. TARR, of Chicago, in the county of Cook and State of Illinois, have invented a new and Improved Shade-Fixture; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a front elevation of a window-frame having my improved shade-fixture applied to it, the shade being represented as drawn up. Fig. 2 is a similar view, showing the shade when it is drawn down. Figs. 3 and 4 are vertical sections, showing the shade in two positions.

Similar letters of reference indicate corresponding parts in the several figures.

The object of my invention is to provide for raising and lowering a window-shade where the roller upon which the shade is rolled is located at or near the bottom of the window-frame for the purpose of obtaining the light from above instead of from below the shade, employing for said purpose a single cord and a spring tension device, as will be hereinafter explained.

To enable others skilled in the art to understand my invention, I will describe its construction and operation.

In the accompanying drawings, A represents a window-frame; B, a roller upon which the curtain or shade *a* is rolled.

c c are the end bearings for the roller B, which may be secured either to the window-sill, as shown, or to the sides of the window-frame.

A cord, *b*, is passed beneath the roller B

and over a pulley, *c'*, at the upper part of the window-frame, and the ends of this cord are secured to the curtain-strip *d*, the cord being drawn tight when the curtain is unrolled, as in Figs. 1 and 3.

The pulley *c'* is arranged directly over the point where the two ends of the cord *b* are secured to the curtain or shade strip, which point is in the middle of the length of this strip, as shown in the drawings. The pulley *c'* is pivoted between the ends of a forked pin, *g*, which pin is acted upon by a spring, *e*, that is held in place by the bearing-plate *h*. The object of the spring *e* is to keep the cord *b* under proper tension when the curtain or shade *a* is unwound from its roller, and to allow of the pulley descending more or less, according to the increased diameter of the roller when the shade *a* is wound upon it, as shown in Figs. 2 and 4. By keeping the cord *b* tight the curtain or shade *a*, which is secured to said cord, will also be kept tight and in its place.

The spring-pulley *c'* may be applied to a shorter stem than that shown in the drawings, and this stem and its spring may be inclosed within a neat box, which will present a handsome appearance on the window.

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

The arrangement of the lower roller, B, endless cord *b b*, curtain *a a*, attached to the endless cord, and the tension-roller *c'*, substantially as set forth.

J. B. TARR.

Witnesses:

J. A. HOISINGTON,
C. L. JENKS.