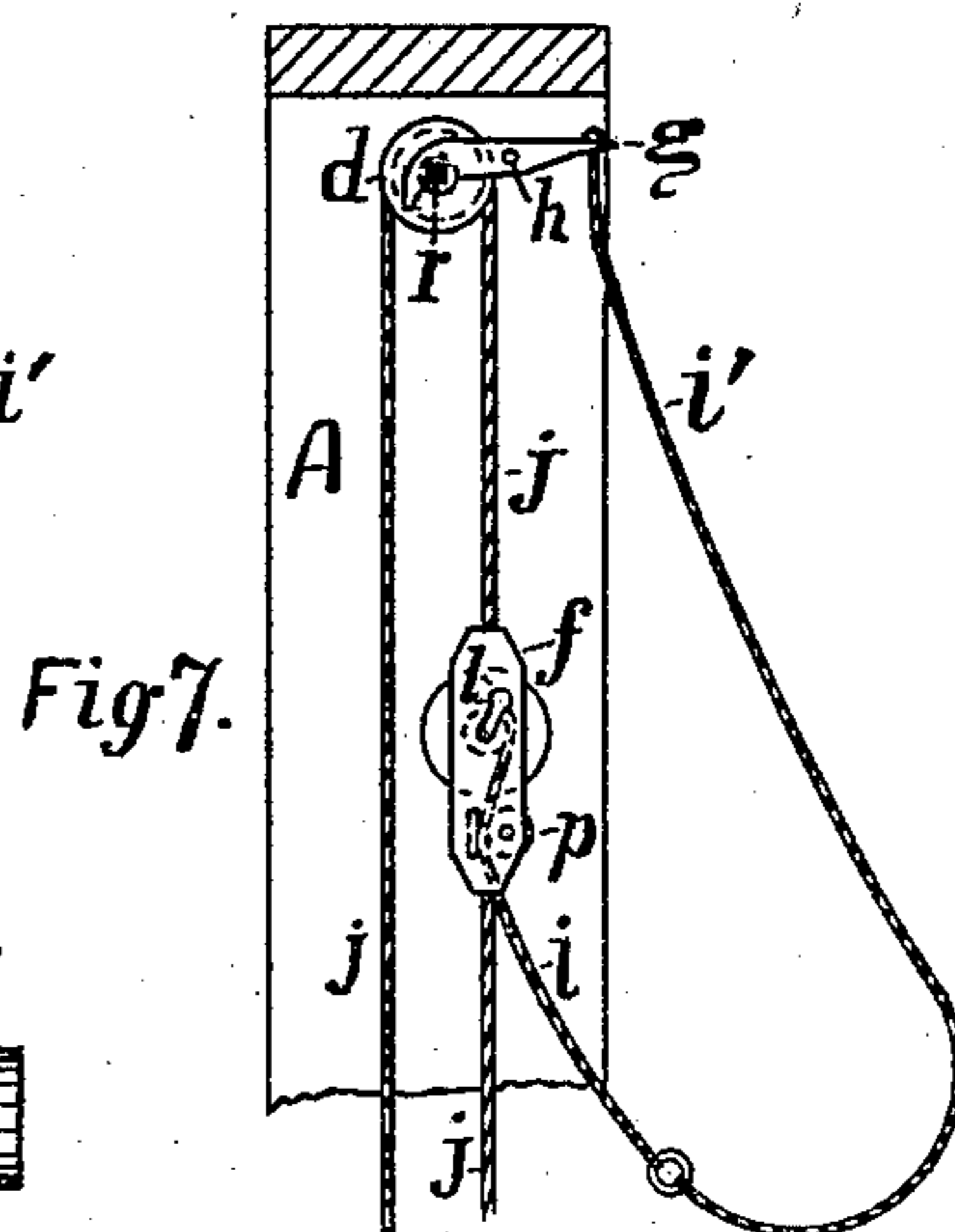
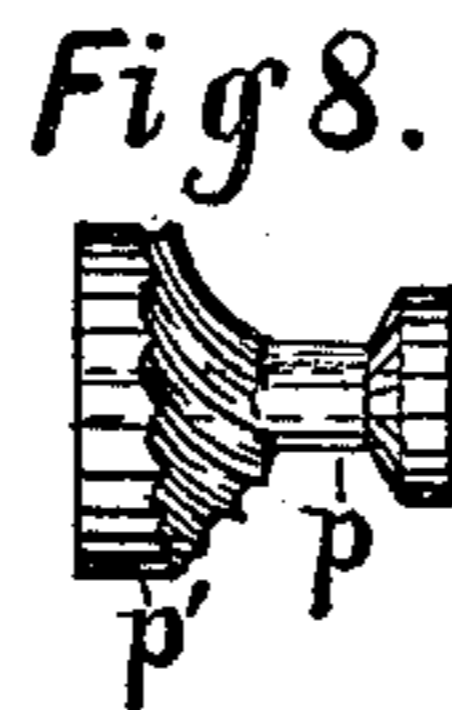
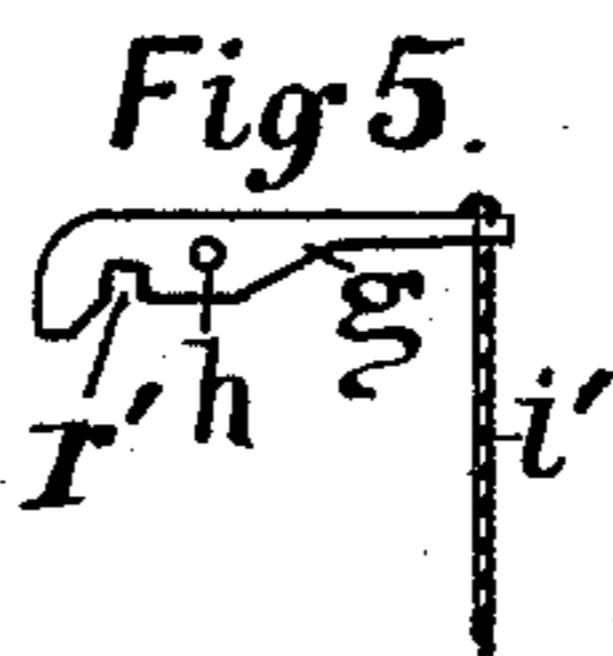
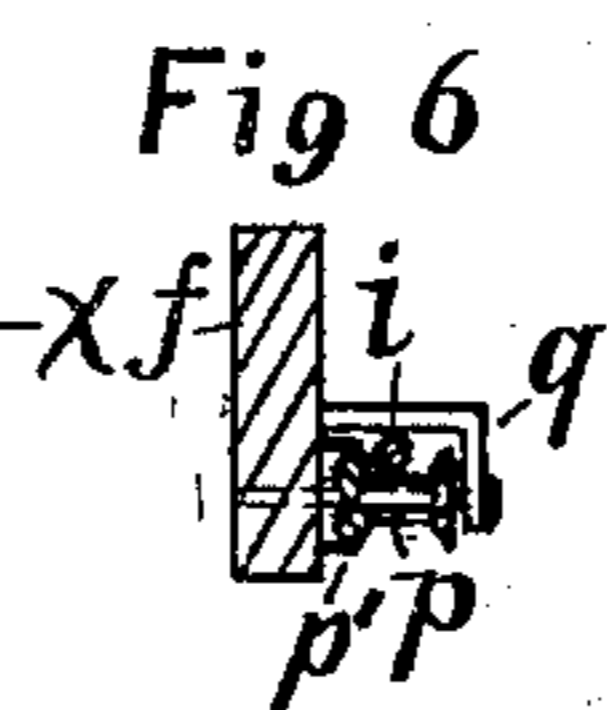
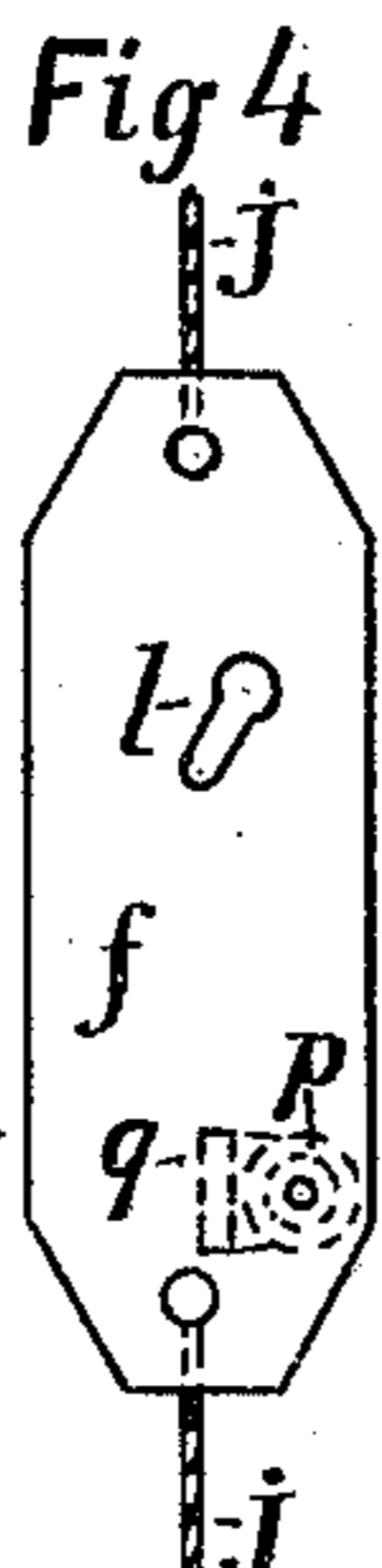
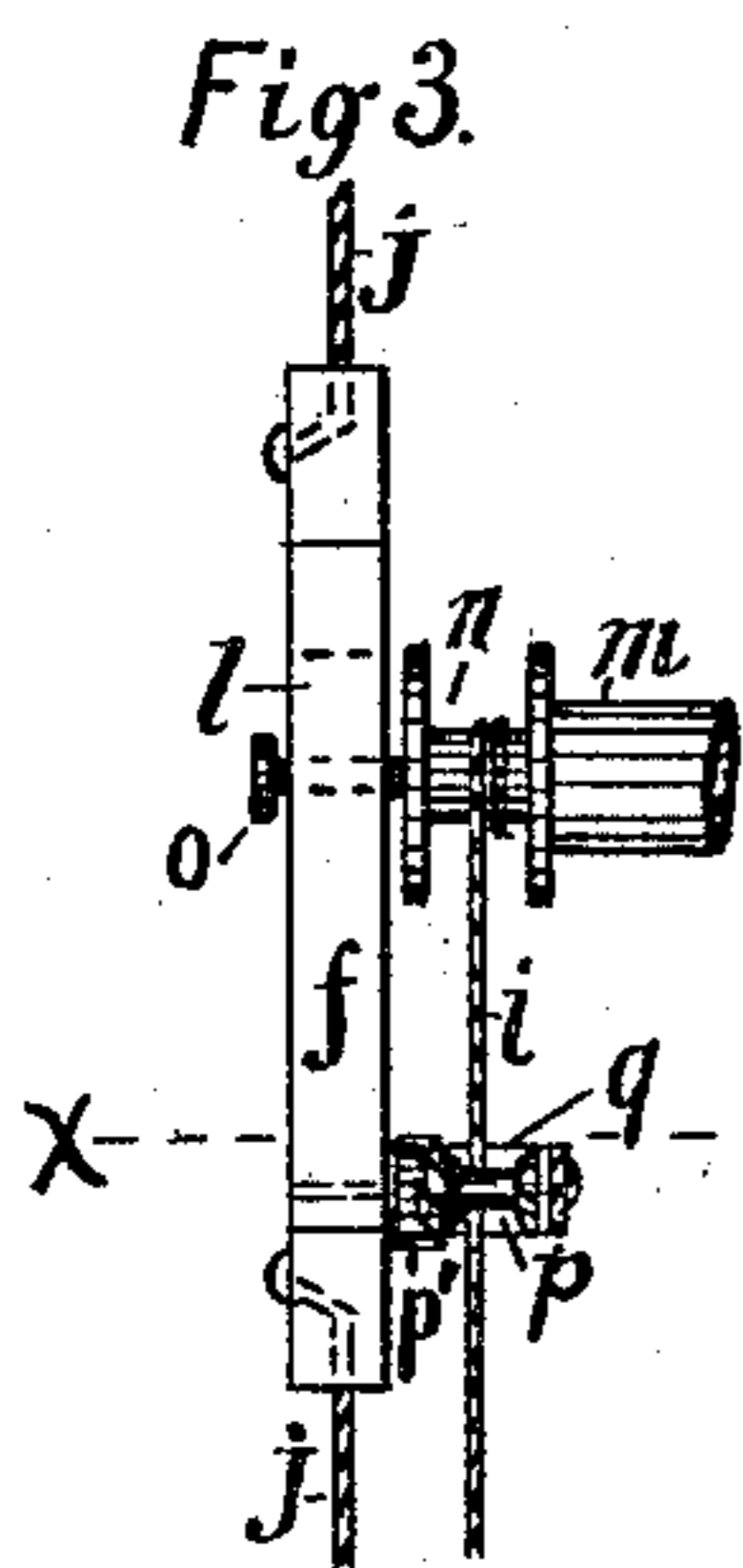
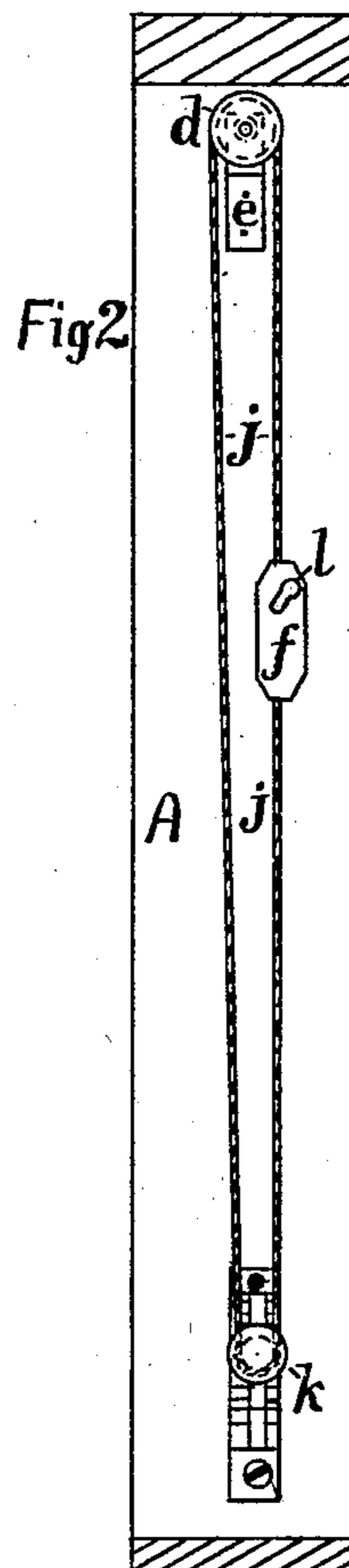
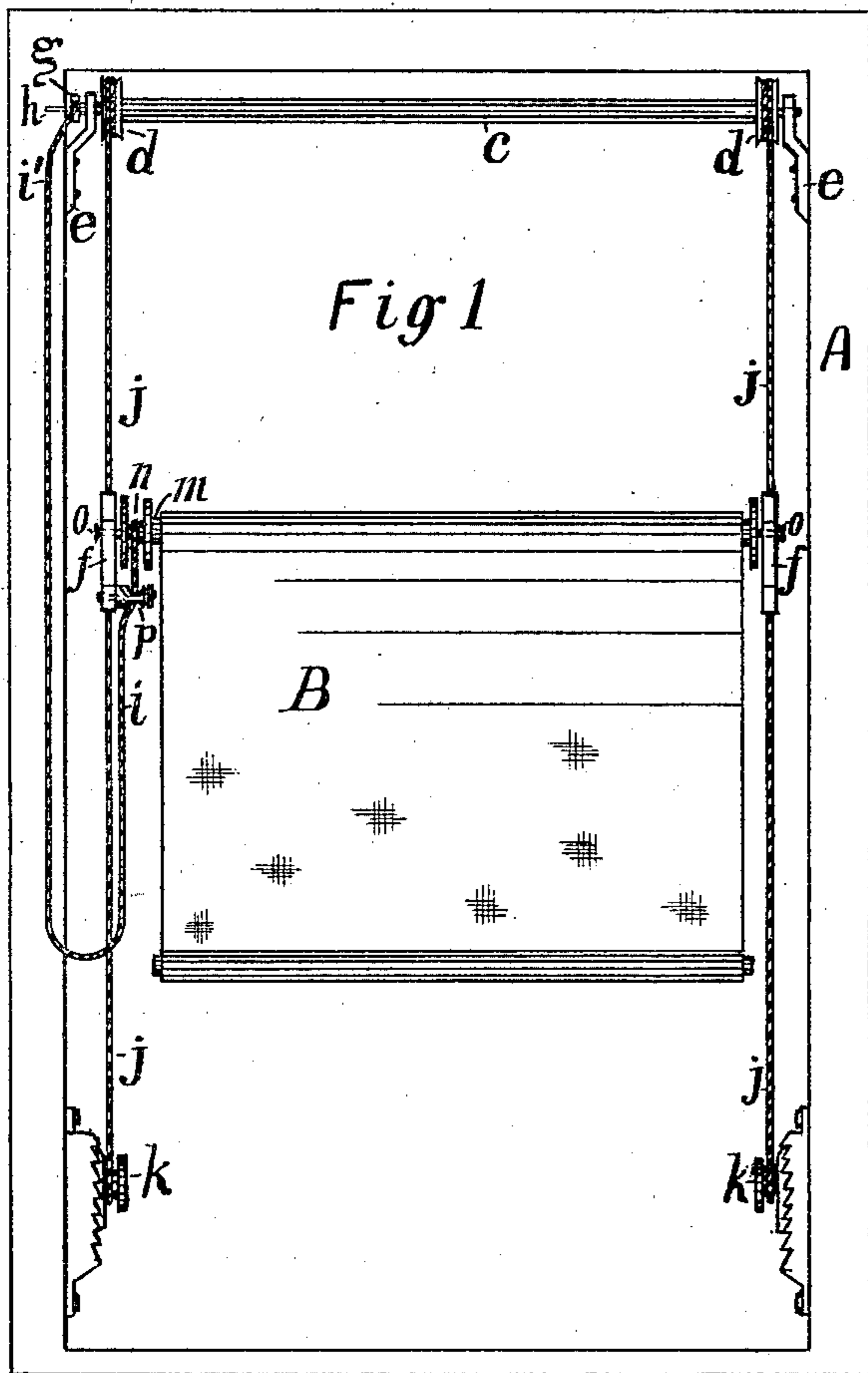


(No Model.)

L. ERIKSON.
CURTAIN FIXTURE.

No. 245,944.

Patented Aug. 23, 1881.



Witnesses
Wm Zimmerman.
Ludwig Hahn

Inventor.
Lars Erikson.
By Gridley & Co,
Attys.

UNITED STATES PATENT OFFICE.

LARS ERIKSON, OF CHICAGO, ILLINOIS.

CURTAIN-FIXTURE.

SPECIFICATION forming part of Letters Patent No. 245,944, dated August 23, 1881.

Application filed March 14, 1881. (No model.)

To all whom it may concern:

Be it known that I, LARS ERIKSON, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Curtain-Fixtures; and I hereby declare the following to be a full, clear, and exact description thereof, which will enable others skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawings, forming a part hereof, and in which—

Figure 1 represents a front view of a window-frame provided with my curtain-fixtures. Fig. 2 represents a side view of the same with the near side of the window-frame removed. Fig. 3 represents an enlarged view of the part *f* as viewed from the front, with curtain-roller *m*. Fig. 4 represents a side view of the same. Fig. 5 represents the hook *g* by itself. Fig. 6 represents a sectional view of Figs. 3 and 4, taken on the line *x x*; and Fig. 7 represents a side view of the near side, or side provided with the lever-stop *g* and cord-stop *p*. Fig. 8 is an enlarged view of the roller *p*.

Like letters of reference indicate like parts throughout.

The object of my invention is to provide a curtain-fixture of simpler and cheaper construction and more easily worked than any of like kind heretofore made, and by means of which the curtain may be held at any desired point, and also so constructed that the curtain may be lowered from the top of the window or raised from the bottom, or both simultaneously, which I accomplish by the construction and arrangement of the several parts, as hereinafter more fully described.

In the drawings, *A* represents the window-frame, at the upper end of which are fastened brackets *e*, which carry the roller *c*, provided at its ends with the pulleys *d* and bearings in the brackets *e*. Near the bottom of the frame *A* are fastened cord-tighteners *k*. Over the pulleys *d* and cord-tighteners *k* are passed endless cords *j*, both ends of which are fastened to a small metal plate, *f*, provided with a slot, *l*. The plates *f* are so arranged as to be opposite each other, and into the slots *l* are laid the journals *o* of the curtain-roller *m*. Said journals *o* are provided with heads at their outer ends to prevent them from slipping out of the

plates *f*. At one end said curtain-roller *m* is provided with a spool or drum, *n*, upon which is wound one end of a cord, *i*, and upon the plate *f*, which carries the end of the curtain-roller provided with the spool *n*, is also attached a small arm, *q*, which, with the plate *f*, carries a roller, *p*, provided at either or both ends with a thick flange, *p'*, the edge of which is formed into spirally-serrated teeth, and back of and between it and the arm *q* passes the cord *i* from the spool *n*, upon which it is wound, and the other end of said cord may pass up and be fastened to the outer end of the lever-hook *g*; or a separate cord, *i'*, may be attached to it. The inner end of the lever-hook *g*, pivoted at *h*, is provided with a square notch, *r'*, which fits over the outer and projecting end of one of the journals of the roller *c*, which is made square so as to fit into the notch *r'*. The endless cords *j* are wound around the pulleys *d* two or three times, so as to prevent their slipping, and are stretched tightly by means of the cord-tighteners *k*. The plates *f* may also be attached to the window-frame in place of the brackets *e*, and the stop *p q* attached to it for the purpose of holding and operating the curtain.

I do not claim the stop *p q*, broadly, but only as attached to and forming a part of the plate *f* of a curtain-fixture, as shown.

The manner of operating my improved curtain-fixture is as follows, to wit: When it is desired to roll the curtain upon the roller *m* the end of the cord *i* wound upon the spool *n* is pulled, which causes the roller to turn, and thus roll the curtain *B* upon it; or it may be caused to roll down by simply pulling the cord *i* down first, so as to relieve it from the teeth of the flange *p'*, and then release it; and its motion may be arrested and the curtain held at any desired point by pulling the cord *i* to one side, so that the serrated flange *p'* of the roller *p* may catch it between it and the arm *q*, when it will be held fast.

The roller *m* may be raised and lowered by pulling the cord *i'* so as to raise the hook *g* and cause it to release the square end *r* of the journal of the roller *c*. Then by pulling with the other hand one of the endless cords *j* it will raise or lower the roller *m*.

It will be seen from the foregoing description

that the roller *m* will always move parallel to itself, and thus cause the curtain to roll up true, that it may be made to shade any part of the window desired, and also that the curtain can be taken from the fixtures for cleaning and replaced without a ladder.

Instead of using the roller *p*, arm *q*, and spool *n* with its cord *i*, the roller *m* may be made to roll up automatically by means of any well-known spring or map roller.

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

1. The roller *m*, provided with headed journal-pins *o*, spool *n*, and cord *i*, plates *f*, provided with slotted bearings *l* and roller *p*, endless cords *j*, roller *c*, provided with fixed pulleys *d*, and stretchers *k*, all combined and constructed to operate substantially as and for the purpose specified.

2. The plate *f*, provided with journal-bearings *l*, and arm *q*, carrying a roller, *p*, pro-

vided with a spirally-serrated flange, *p'*, and endless cord *j*, in combination with the roller *c*, provided at its ends with pulleys *d*, having journals resting in the brackets *e*, and cord-stretcher *k* and cord *i*, all arranged to operate substantially as and for the purpose specified.

3. The plates *f*, provided with journal-bearings *l*, arm *q*, roller *p*, and endless cords *j*, in combination with the roller *c*, provided with pulleys *d*, journaled in brackets *e*, lever-hook *g*, and journal *r*, curtain-roller *m*, provided with spool *n*, and cord *i*, all arranged to operate substantially as and for the purpose specified.

4. The plate or bracket *f*, provided with journal-bearings *l*, roller *p*, provided with serrated flange *p'*, and arm *q*, all constructed and arranged to operate substantially as and for the purpose specified.

LARS ERIKSON.

Witnesses:

CHRISTIAN EMILSON,
JOSEPH CASPER.