

C. L. JOHNSON.

Improvement in Powers for Small Machinery.

No. 115,864.

Patented June 13, 1871.

Fig. 1.

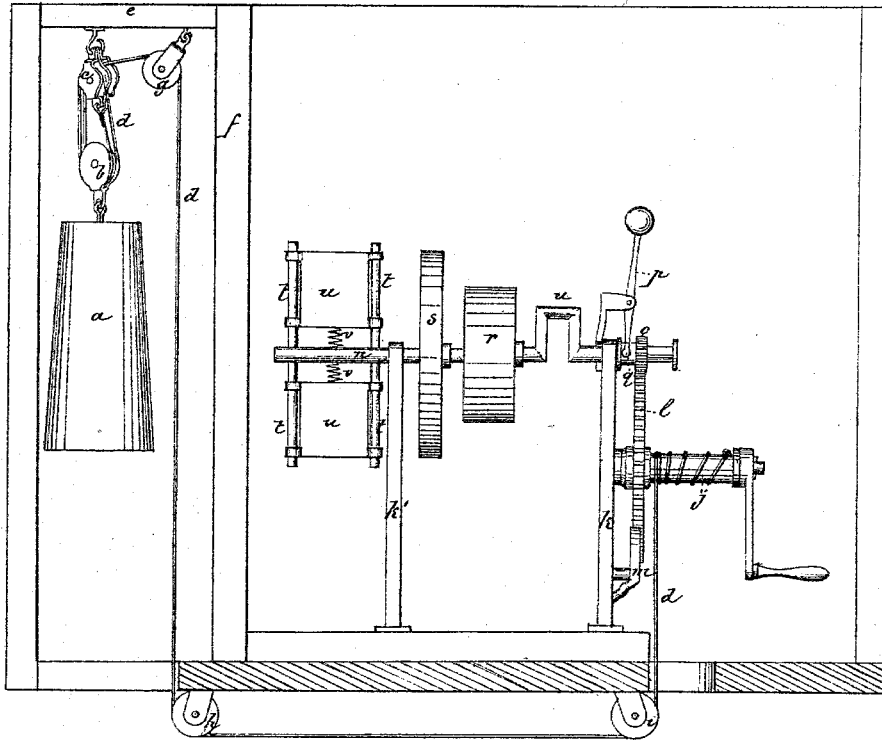
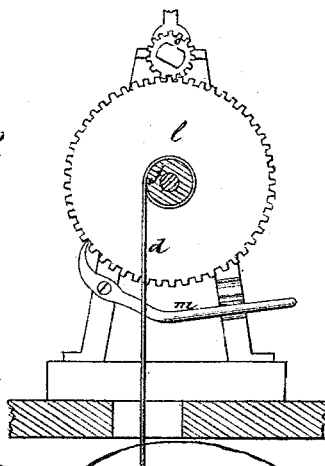


Fig. 2.



Witnesses:

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# UNITED STATES PATENT OFFICE.

CHARLES L. JOHNSON, OF OMAHA, NEBRASKA.

## IMPROVEMENT IN POWERS FOR SMALL MACHINERY.

Specification forming part of Letters Patent No. 115,864, dated June 13, 1871.

*To all whom it may concern:*

Be it known that I, CHARLES L. JOHNSON, of Omaha, in the county of Douglas and State of Nebraska, have invented a new and Improved Power for Small Machinery; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a side elevation, and Fig. 2 is a detached side elevation of the wheel *l*.

This invention consists in an arrangement of parts whereby a weight hung outside of a building may be made use of for the purpose of operating a mechanism placed within the building, by which mechanism, when thus operated, any small machinery may be driven, through suitable connections.

Referring to the drawing, *a* is the weight aforesaid, the same being hung to a system of pulleys, *b c*, connected by a cord, *d*, and suspended to a projection, *e*, outside the building *f*. The cord *d* passes over a sheave, *g*; thence downward outside the wall to a sheave, *h*, beneath the corner of the edifice; thence beneath the floor to a sheave, *i*; and thence up through the floor to a horizontal shaft, *j*, inside the house, which shaft is mounted in a standard, *k*, and bears a cog-wheel, *l*. A weighted detent, *m*, is hung to the standard *k*, beneath, and so as to engage with the wheel *l*. The standard *k*, in conjunction with a fellow standard, *k'*, supports a horizontal shaft, *n*, which

bears a sliding pinion, *o*, that, by means of a lever, *p*, may be thrown into gear with the wheel *l*, and be made to rotate the shaft *n* by means of a clutch, *q*. The shaft *n* bears a crank, *w*, a band-wheel, *r*, a fly-wheel, *s*, and a set of radial arms, *t*, with which are connected wings *u*, that slide in the arms *t*, being thrown outward by centrifugal force and drawn backward by counter-springs *v*, so as to operate as an automatic governor of the speed of the shaft *n*.

This apparatus can be employed to drive sewing-machines or any other small machinery.

The machinery driven is stopped by throwing the pinion *o* out of gear with the wheel *l*. The detent *m* stops the cog-wheel when required.

The weight *a*, being outside the house, is out of the way of the occupant, and may be boxed up, if desired.

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

The combination of a weight, *a*, when hung outside a building, by means of pulleys *b c g* and a cord, *d*, with the mechanism placed inside the building for driving small machinery, as specified.

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Witnesses:

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