(No Model.)

F. G. TALLERDAY.

DEVICE FOR TRANSMITTING MECHANICAL POWER.

No. 359,107. Patented Mar. 8, 1887.

Fig. 1.

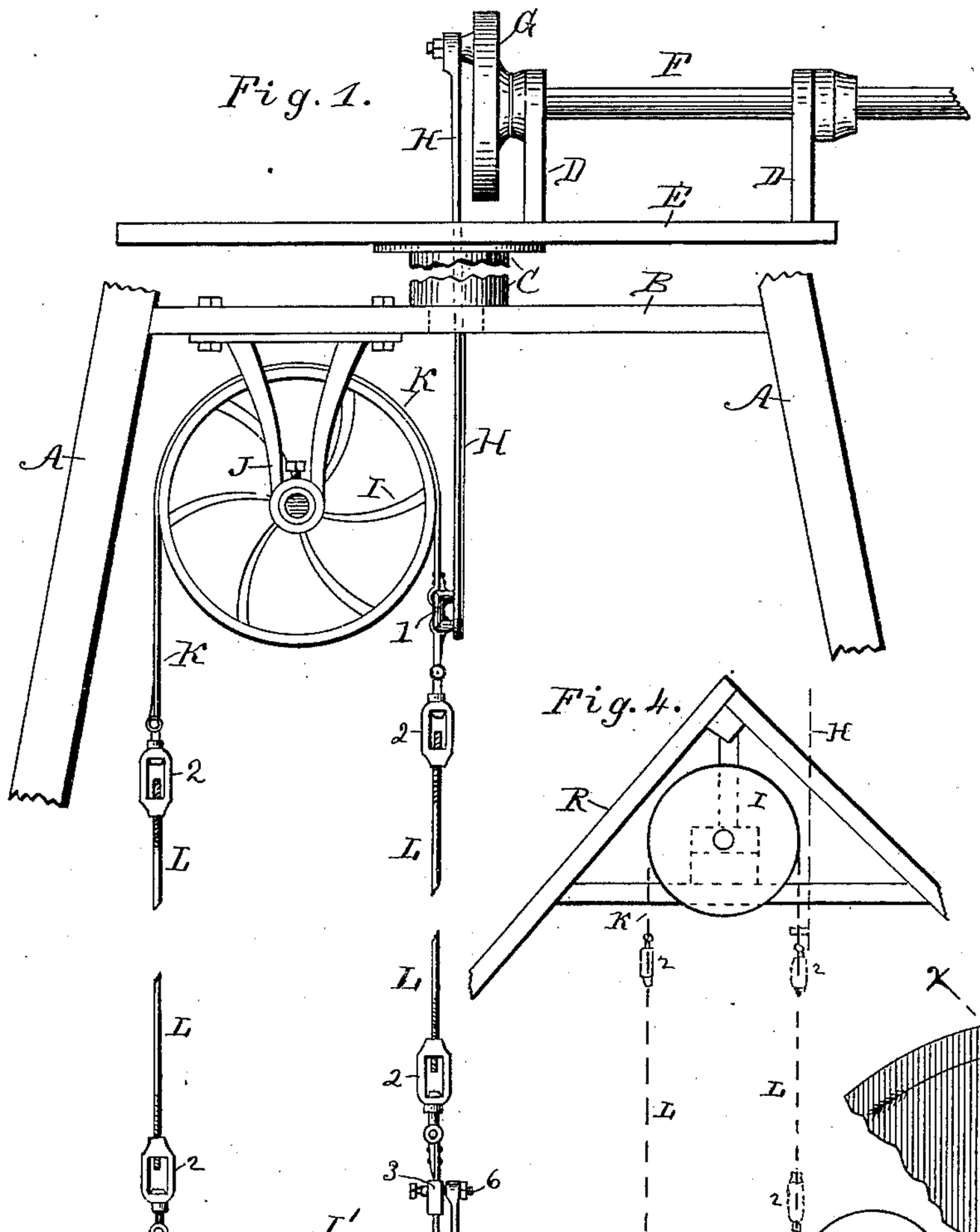
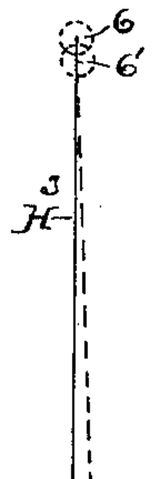


Fig. 4.

Fig. 2.



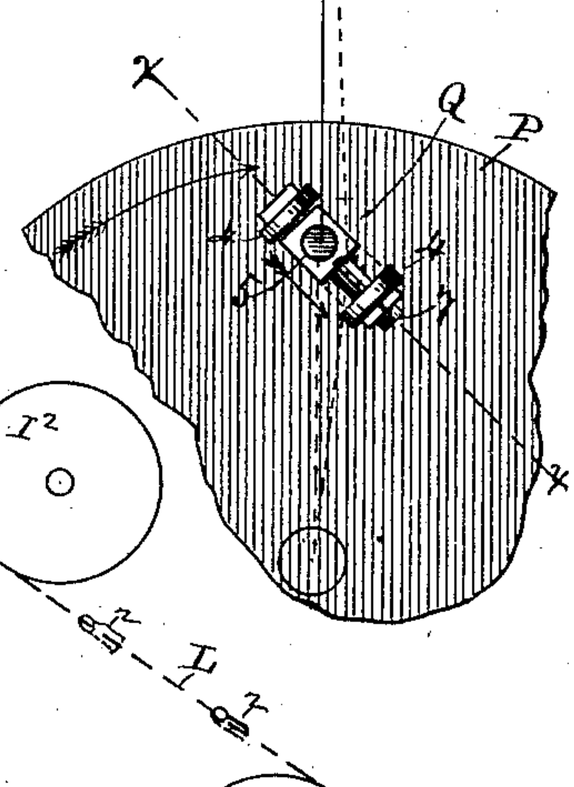
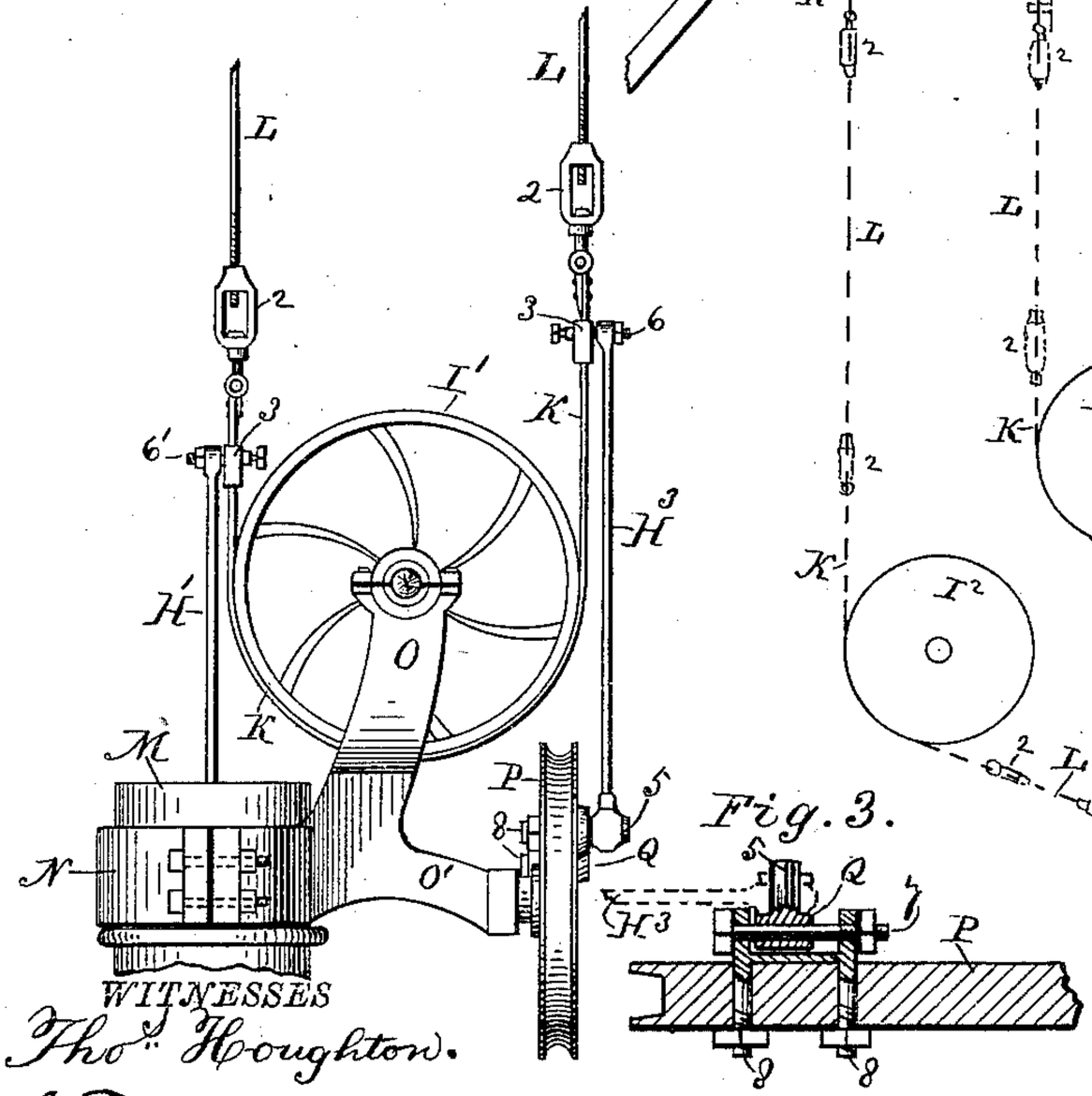


Fig. 3.



WITNESSES

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DEVICE FOR TRANSMITTING MECHANICAL POWER.

SPECIFICATION forming part of Letters Patent No. 359,107, dated March 8, 1887.

Application filed April 23, 1886. Serial No. 199,894. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN G. TALLERDAY, a citizen of the United States, residing at Poplar Grove, in the county of Boone and State of Illinois, have invented certain new and useful Improvements in Transmitting Mechanical Power; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to the transmission of power from a wind-wheel, and its object is to diminish waste of power in the transmission.

In the accompanying drawings, wherein like letters represent like parts, Figure 1 is a side elevation of such parts of a wind-wheel tower as are necessary to show the invention, my improvements being attached. Fig. 2 is a side elevation of a part of the pulley, marked P in Fig. 1. Fig. 3 is a section on the line *x x* of Fig. 2; and Fig. 4 is a modification of my device to adapt it to ordinary farm use.

A A are parts of the tower-frames. B is a bar within the tower to serve as a support. C is a cylinder surrounding the pitman H. D D are standards supporting the wind-wheel shaft. E is the turn-table of the wind-wheel. F is the wind-wheel shaft. G is the crank-head of the wind-wheel. H is a pitman for transmitting power from the wind-wheel. This pitman is provided with a staple, 1, by which it is connected, as shown, to a belt or band, K, passing over the pulley I, that is journaled in a bracket, J, bolted to the support B.

It is evident that the operation of the pitman H, which is to be swivel-jointed at some suitable part of its length within the cylinder C, so as to accommodate it to the shifts of the wind-wheel, gives a reciprocating motion to the band K and the pulley supporting it, which motion is transmitted to the pulley I'. The upper and lower parts of the band are connected by rods L L, provided with turn-buckles 2 2 to take up the slack of the bands. The band K is provided with clamps 3 3, governed each by a set-screw and having wrist-pins 6 6, to which are pivoted, respectively, the pitman or piston H' and the pitman H^3, the former acting upon the pump M and the latter upon the pulley P. A clamp, N, forms into a bracket, O, to carry the pulley I', and a bracket, O', to carry the pulley P. This pulley is intended to convert the reciprocating motion imparted by the band K into rotary motion by the familiar device of a band working upon and from said pulley. To overcome dead-center and prevent backward motion of the pulley, the pin Q slides to and fro upon a shaft, 7, set out from the face of the pulley upon brackets 4 4, bolted to the face of the pulley by the bolts 8 8, the proper angle to be given to the shaft being shown in Fig. 2, while the details of construction appear in Fig. 3.

In Fig. 4 the mechanism for transmitting power is shown as though the wind-wheel were mounted upon a barn, systems of pulleys I^2 I^3 being shown to carry the belting wheresoever desired, within or without the barn, for pumping, grinding, or other farm or mill work.

When my device is used for a single-acting pump, one side of the belting, may be weighted, to aid in effecting the upward or pumping stroke.

Having thus sufficiently described my invention, what I claim is as follows:

In mechanism for transmitting power, the combination of the pitman H, provided with a staple, 1, the band K, having clamps 3 3 and wrist-pins 6 6, the rods L L, provided with turn-buckles 2 2, the pulleys I and I', and the pitman H', for the purposes described.

In testimony whereof I affix my signature in presence of two witnesses.

FRANKLIN G. TALLERDAY.

Witnesses:

JOHN B. LARNER,

E. GUTHRIE.