

Patented Mar. 29, 1887.

Fig. 1.

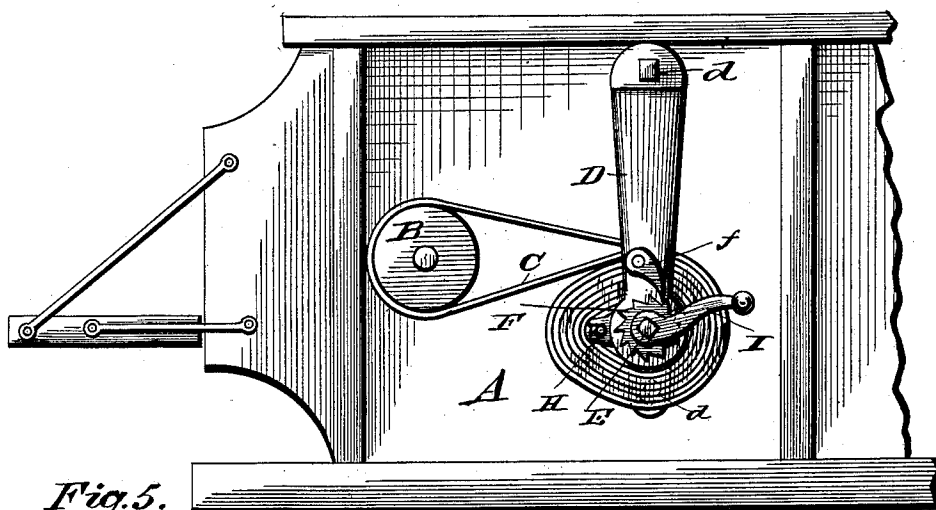


Fig.5.

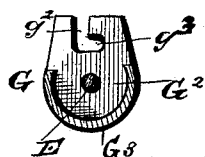


Fig. 2.

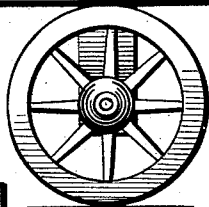
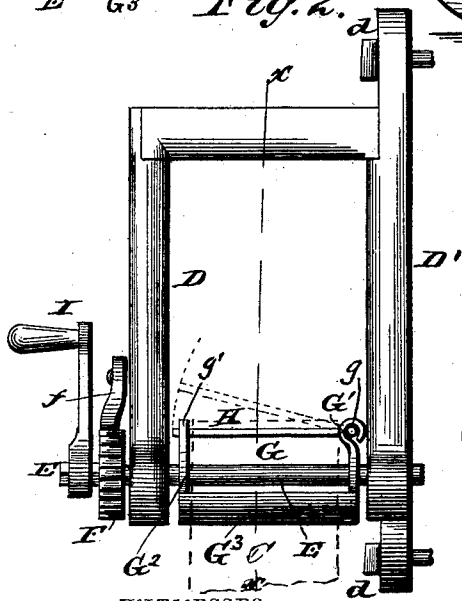
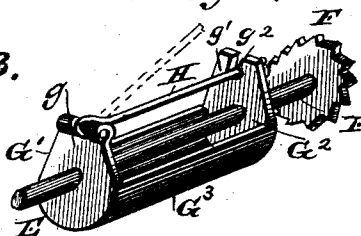


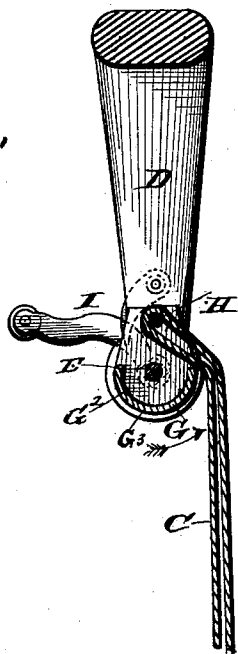
Fig. 3.

Fig.4.



WITNESSES

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ELMER J. WORDEN, OF CHARLOTTE, MICHIGAN, ASSIGNOR OF ONE-HALF
TO EBER PERRY, OF SAME PLACE.

BELT-REEL.

SPECIFICATION forming part of Letters Patent No. 360,399, dated March 29, 1887.

Application filed June 1, 1886. Serial No. 203,796. (No model.)

To all whom it may concern:

Be it known that I, ELMER J. WORDEN, a citizen of the United States, residing at Charlotte, in the county of Eaton and State of Michigan, have invented certain new and useful Improvements in Belt-Reels; 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.

15 This invention relates to belt-reels for thrashing-machines; and the novelty consists in the construction, arrangement, and adaptation of parts, as will be more fully hereinafter set forth, and specifically pointed out in the claim.

20 The object of the invention is to provide as an attachment to thrashing-machines a convenient device for reeling and storing the power-belt when the thrasher is not in use.

I locate my reel-frame vertically adjacent to 25 and behind one of the pulleys. The frame serves to guide the belt until it is tensioned taut upon the pulley.

The invention is illustrated in the accompanying drawings, which form a part of this 30 specification, and in which—

Figure 1 is a side elevation showing a part of any ordinary and approved thrasher with my improved reel mechanism attached. Fig. 2 is an elevation of the reel and frame detached, taken at right angles to the position 35 shown in Fig. 1. Fig. 3 is a detail in section, and Figs. 4 and 5 perspective details, of the reel detached.

Referring to the drawings, A designates the 40 body of any approved thrashing-machine, and B one of the power-pulleys thereof. C is the driving-belt.

D designates a rectangular frame having a side plate, D', provided with securing means, as bolts *d*. The frame D is secured vertically 45 to the body of the thrasher, adjacent to and behind the pulley B, and it furnishes journal-bearings for a shaft, E, carrying exterior to the frame a ratchet-wheel, F, and between the 50 standards of the frame a reel, G.

The reel G is composed of two heads, G' G², each connected rigidly to the shaft, and themselves connected together by a semi-cylindrical plate, G³. To a projection, *g*, upon the head G' is pivoted or hinged a latch, H, having its free end arranged to engage a recess, *g*², formed in the projection *g*' of the head G². 55 Within the recess *g*², I form a side recess, *g*³. The recess *g*³ holds the latch efficiently, while when the belt is unwound the latch H is released. 60

The belt C in passing from the pulley is guided by the sides of the frame D and requires no guide-rolls. A pawl, *f*, serves to control the ratchet-wheel F, and to prevent 65 the reel from unwinding, and a removable crank, I, allows the manipulation of the device at will.

The operation is obvious. The belt, being loosened from one pulley, is passed within the reel, and the latch passed to the position shown in Figs. 2 and 4. The reel being turned, the tension of the belt forces the latch into the recess *g*³, where it will be held until the tension of the belt will be sufficient to hold the 75 latch. The pawl *f* takes up and holds all slack until the belt is wound up and is brought to a tension upon the pulley B. In this position all the parts are held by the pawl. When it is desired to release the belt for use, it is 80 only necessary to disengage the pawl *f*, grasp the belt, and unwind the same from the reel. As the belt becomes unwound the latch releases itself by reason of the recess *g*³. 85

What I claim as new is—

The reel G, comprising the two heads G' G², the plate G³, and a latch, as H, arranged on the side opposite the plate G³, the shaft E, a ratchet-wheel secured on said shaft, a pawl 90 engaging said wheel, and a crank, I, all combined for joint operation as specified.

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

ELMER J. WORDEN.

Witnesses:

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F. G. SMITH.