

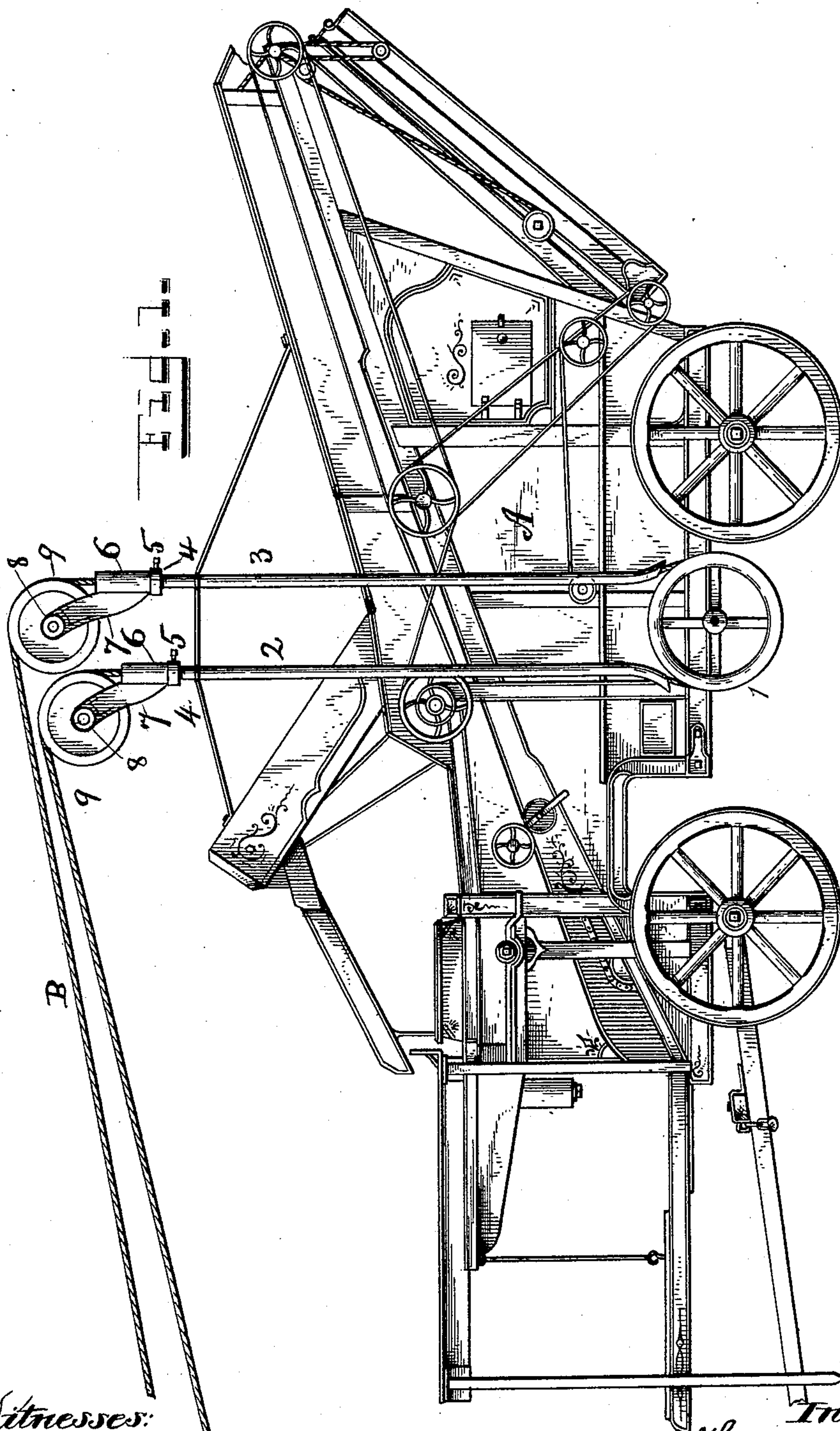
(No Model.)

2 Sheets—Sheet 1.

H., J. H. & A. D. GILLETT.
DRIVING MEANS FOR THRASHING MACHINES.

No. 405,309.

Patented June 18, 1889.



Witnesses:
J. Thomson Cross
Chas. M. Bates

Inventors
Harrison Gillett
James H. Gillett
per *Wm. H. Bates*
Attorney.

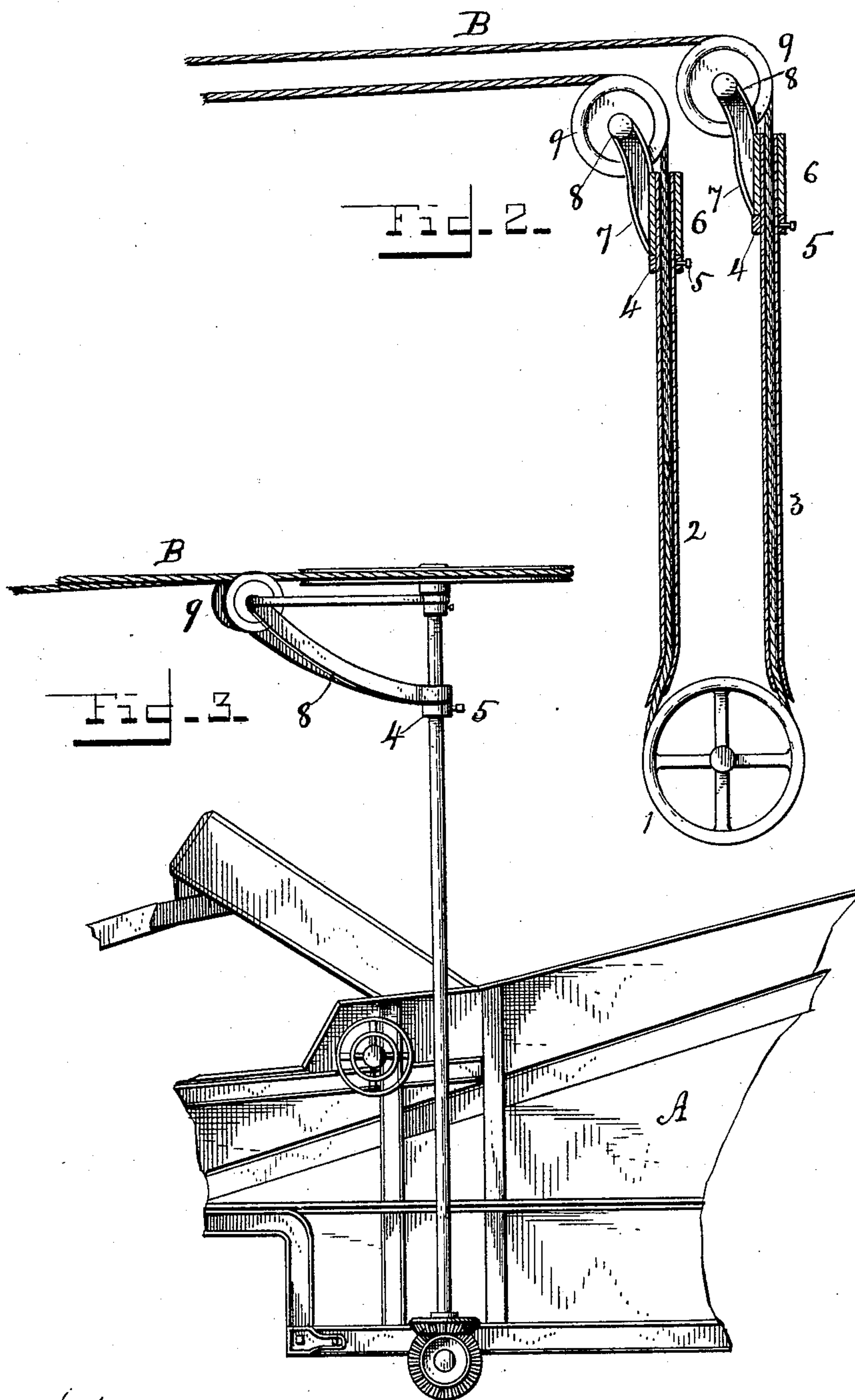
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UNITED STATES PATENT OFFICE.

HARRISON GILLETT, JAMES H. GILLETT, AND ASA D. GILLETT, OF LAKE CITY, MINNESOTA.

DRIVING MEANS FOR THRASHING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 405,309, dated June 18, 1889.

Application filed March 7, 1889. Serial No. 302,227. (No model.)

To all whom it may concern:

Be it known that we, HARRISON GILLETT, JAMES H. GILLETT, and ASA D. GILLETT, citizens of the United States, residing at Lake City, in the county of Wabasha and State of Minnesota, have invented certain new and useful Improvements in Driving Means for Thrashing-Machines, &c.; and we do hereby 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.

Our invention has relation to improved means for arranging and connecting a driving rope or cable of a portable engine to a thrashing-machine, and the object is to so construct the mechanism and arrange the driving rope or cable in connection therewith that the driving rope or cable will be in an elevated position above the machine, so that men and horses can pass thereunder, and also so that the power may be placed at any desired angle to the thrasher.

Our invention consists in the novel construction and application of parts and their combination, as will be fully described, and the same will be particularly pointed out in the claims.

We have fully illustrated our invention in the accompanying drawings, wherein—

Figure 1 is a side view of our invention applied to a thrasher. Fig. 2 is a detail view of the invention, the guiding-tubes being shown in central vertical section. Fig. 3 is a modification of our invention showing the guide-pulleys mounted on a vertical shaft and the driving rope or cable carried by a horizontally-arranged sheave or pulley.

A designates the thrashing-machine, which of course can be of any of the improved constructions generally in use. On this machine is mounted a shaft carrying a sheave 1, having its face grooved to take the rope or cable, substantially as shown. The shaft of this sheave is provided with suitable gearing, by belt or gear-wheels, to connect it with the other rotary parts of the thrasher mechanism. As this gearing-connection is not a part of our invention, and will be suggested to the mechanic, and since it may be of any suitable

character, we have not illustrated it in the drawings. On the side of the thrasher are secured and braced two guiding-tubes 2 3, arranged vertically and parallel with each other and having their lower ends in alignment with side faces of the sheave, substantially as shown. These guide-tubes serve as guides to the lines of the rope or cable, and also protect the rope or cable from outward accidents and influences. At the top part of the guide-tubes are secured annular collars or seats 4. These may be made integral with the tubes, or they can be adjustable thereon and secured by means of set-screws 5. On the tops of the guide-tubes are fitted sleeves 6, arranged thereon so as to turn readily on the tubes and be supported by the collars or seats 4. Formed on each sleeve 6 is an upwardly-extended and outwardly-projecting arm 7, bifurcated or slotted and formed with bearings 8 at their upper ends, and mounted in these arms are sheaves or pulleys 9, the horizontal radius of which terminates in alignment in one direction with the bores of the respective tubes over which the pulley is mounted.

B is a rope or cable arranged about the sheave 1, passed through the tubes up and over the sheaves 9, and thence carried to and about a sheave on an engine. The engine is not shown, as it is not deemed necessary. The tubes, with the sheaves mounted thereon, it will be perceived, extend above the highest part of the thrasher, so that the rope or cable is clear above the ground and above the machine, free from liability to contact with any of the workmen or with the teams which may be about the machine. The substitution or application of a rope or cable for the driving belt or means avoids the objections to a driving-belt existing on account of likelihood to be displaced by the winds.

It will also be perceived that by mounting the upper sheaves in rotatable brackets they can turn to any point within a circle, and at any of such positions the rope or cable in its relations to the machine will not be thrown out of alignment therewith. The accomplishment of this particular application of power to a thrasher, whereby the engine and the machine can be placed at any angle to each

other, is an essential and important feature of our invention, and the means employed being sheaves arranged to turn in their supports in any direction in a plane, the gist of
5 our invention is the mechanism to effect the purpose and to carry the rope or cable above the machine.

In Fig. 3 is illustrated the carrying and turning sheave serving to guide the rope or
10 cable about a horizontally-arranged sheave mounted on a vertical shaft having gear connecting it to the mechanism of the machine.

It will be perceived that application in a modified form of mechanism is within the
15 spirit and objects of our invention, since the rope or cable can be carried to the power at any angle within the bounds of a circle.

Having thus fully described our invention, what we claim as new, and desire to secure by
20 Letters Patent, is—

1. The combination, in a thrasher, of a pul-

ley on a shaft of the machine, vertically-arranged guide-tubes, guide-pulleys swiveled to the upper ends of said tubes, and a rope or belt, substantially as described, and for the 25 purpose set forth.

2. The combination, in a thrasher, of a pulley on a shaft of the machine, vertically-arranged guide-tubes, vertically and laterally adjustable guide-pulleys secured to the upper
30 ends of said tubes, and a rope or belt, substantially as described, and for the purpose set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

HARRISON GILLET.
JAMES H. GILLET.
ASA D. GILLET.

Witnesses:

ALLEN J. GREER,
LA FAYETTE KEITH.