

No. 612,739.

Patented Oct. 18, 1898.

E. LAMBERT.
HORSE POWER.

(Application filed Sept. 7, 1897.)

(No Model.)

Fig. 1.

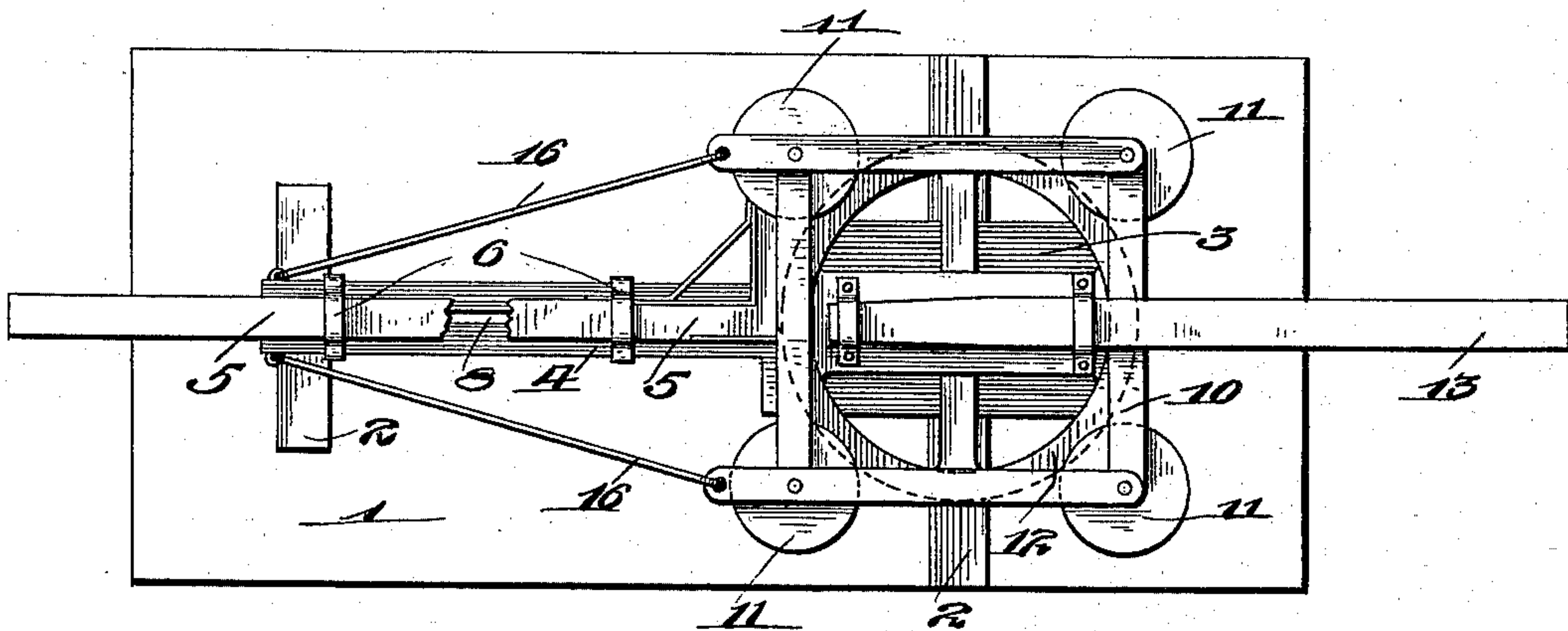
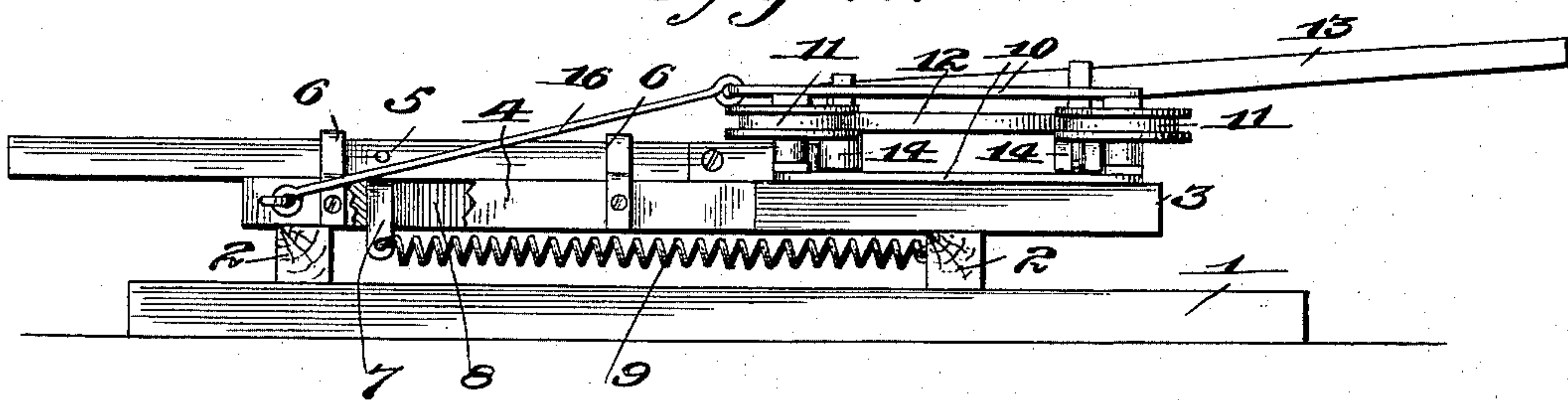


Fig. 2.



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EDWIN LAMBERT, OF DIXON, WYOMING.

HORSE-POWER.

SPECIFICATION forming part of Letters Patent No. 612,739, dated October 18, 1898.

Application filed September 7, 1897. Serial No. 650,822. (No model.)

To all whom it may concern:

Be it known that I, EDWIN LAMBERT, a citizen of the United States, residing at Dixon, in the county of Carbon and State of Wyoming, have invented certain new and useful Improvements in Horse-Powers; and I 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.

This invention has reference to a novel construction in a sweep-motor, the object being to provide a durable device of this kind which converts rotary into reciprocatory motion.

The invention consists in the features of construction hereinafter described and specifically claimed.

In the accompanying drawings, forming part of this specification, Figure 1 is a plan view of a motor constructed in accordance with this invention and with parts broken away for convenience of illustration. Fig. 2 is a side elevation of the same.

Referring now to said drawings, 1 indicates a base upon which the motor is mounted and which is provided with two cross-pieces 2. Mounted upon the rear cross-piece 2 is a plate 3, having an arm 4, that extends to and is secured upon the other cross-piece. The said arm 4 serves as a support for the pitman or plunger-rod 5 and is provided with the guides 6, which confine the pitman thereon. The pitman is provided with a depending finger 7, that extends through a slot 8 in the arm 4, and connected with said finger 7 and in the rear of the cross-piece 2 is a spring 9, that serves to draw the pitman to the rear. Mounted upon the plate 3 is the frame 10, which projects beyond the sides of the plate and between the upper and lower sides of which and at the corners thereof are mounted horizontally-arranged grooved pulleys 11, that serve as guide-pulleys for the master or power wheel 12, said wheel consisting, preferably, of an arm and spokes, it being noted that it is not provided with a central pivot, but is

centered by the grooved pulleys 11 at the corners of the frame and which engage the periphery of the wheel for upholding it. Secured to the upper side of the power-wheel 12 is the sweep 13, while on the lower side of this guide-wheel are the downward projections 14, that serve to engage the lateral projection or arm at the rear end of the pitman. There are two of these projections 14, and in operation it is seen that as the wheel is rotated the projections force the pitman forwardly against the action of the spring, and when one projection passes to one side of the pitman said spring draws the same to the rear and in position to be engaged by the other projection, so that as the sweep and wheel are rotated a reciprocatory motion is imparted to said pitman. The forward ends of the frame 10 are secured and braced by means of rods 16 to the front end of the frame 4.

The device is adapted for use more especially with baling-presses, although it is understood that it can be used wherever such a power is desired.

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

A sweep-motor comprising a plain disk or master-wheel, horizontal pulleys having parallel peripheral flanges engaging the periphery of said disk for centering and upholding the same, a sweep or power lever secured to the upper face of said disk to clear the grooved pulleys, a pitman or plunger-rod and means connected therewith and with the disk for imparting a reciprocating movement to said pitman or plunger-rod, all substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

EDWIN LAMBERT.

Witnesses:

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