

(No Model.)

2 Sheets—Sheet 1.

T. A. TEATE.
MECHANICAL MOTOR.

No. 512,764.

Patented Jan. 16, 1894.

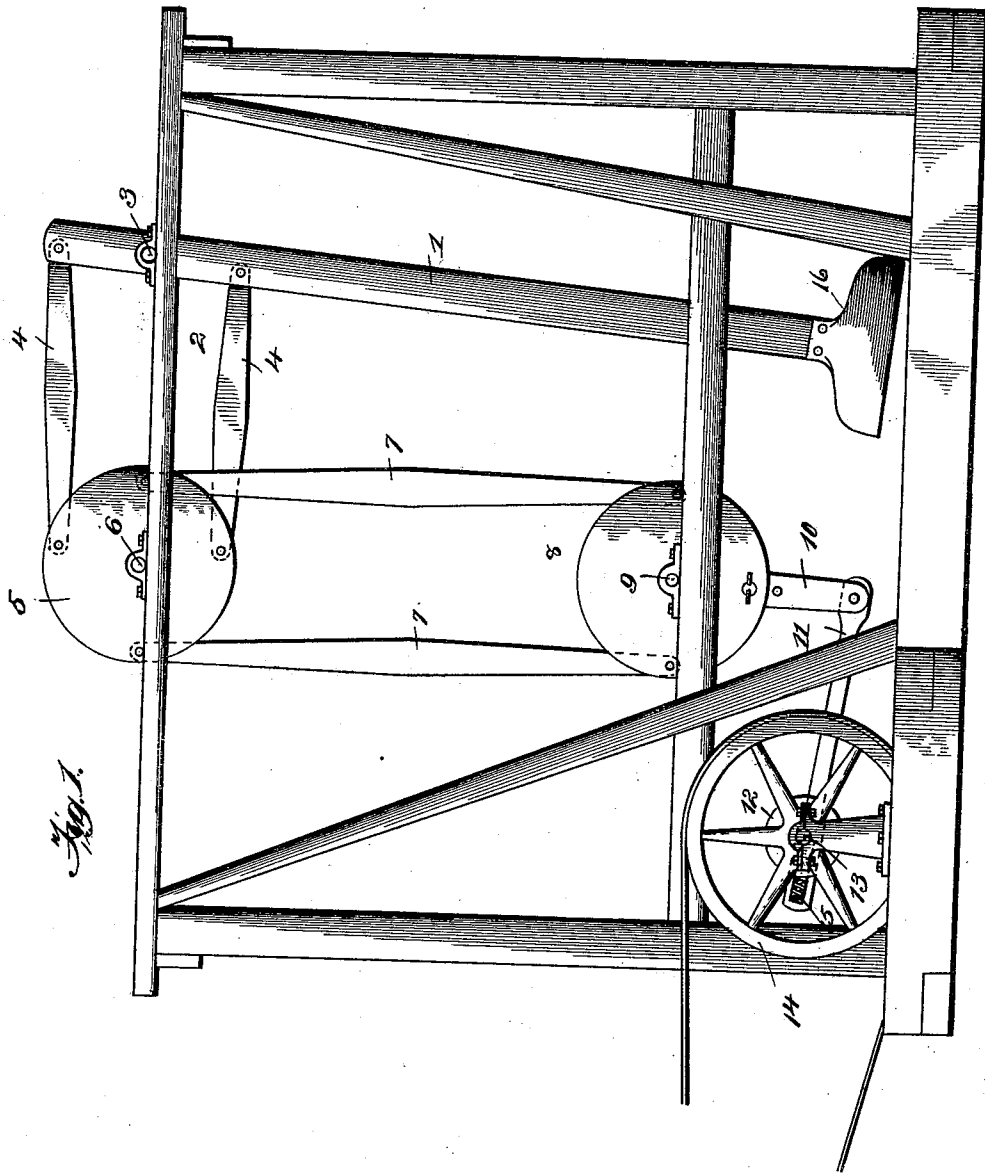


Fig. 1.

Inventor

Thomas A. Teate

Witnesses

John Shaw
H. Riley

By his Attorneys,

Chas. H. Co.

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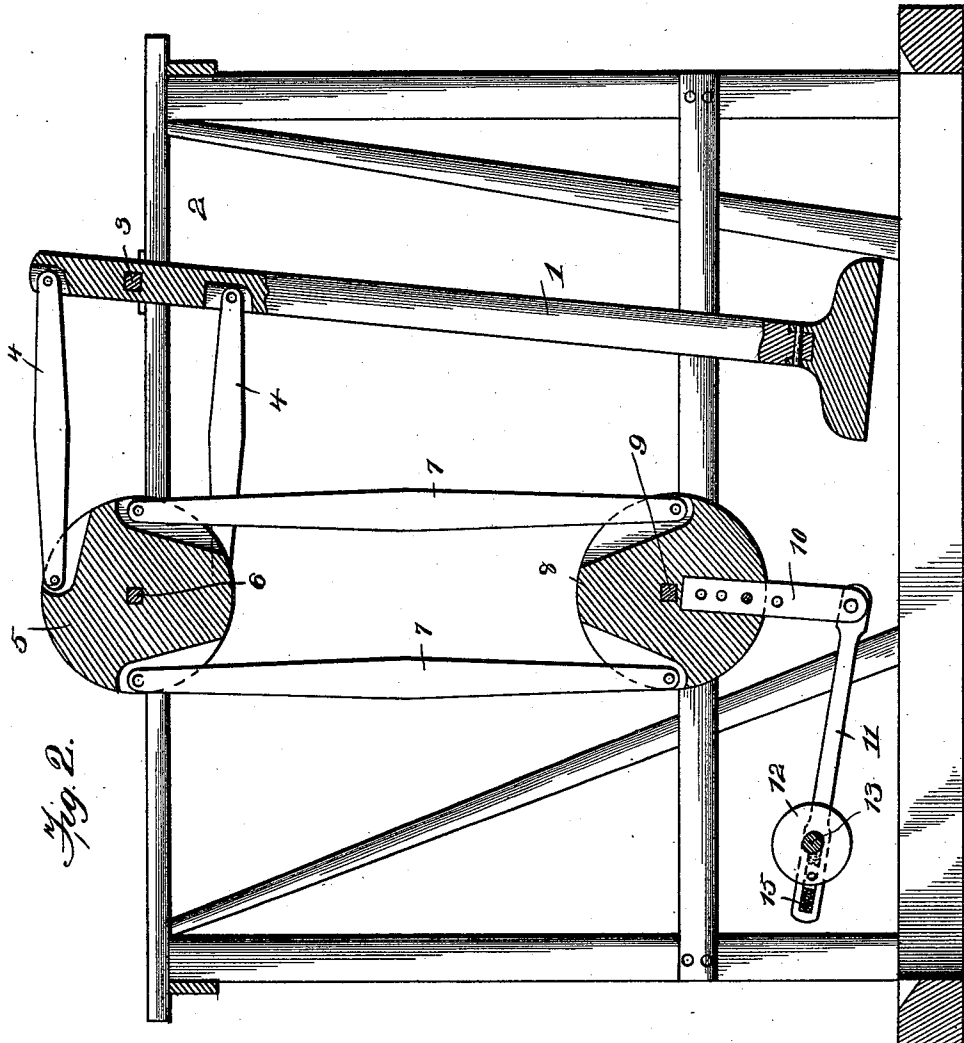


Fig. 2.

Inventor

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Witnesses

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By *Teate's* Attorneys.

Cashow & Co.

UNITED STATES PATENT OFFICE.

THOMAS A. TEATE, OF EUSTIS, FLORIDA, ASSIGNOR OF TWO-THIRDS TO
FREDERICK S. A. MAUDE, OF LEESBURG, FLORIDA, AND WILLIAM B.
WILLIAMSON, OF WARRENTON, VIRGINIA.

MECHANICAL MOTOR.

SPECIFICATION forming part of Letters Patent No. 512,764, dated January 16, 1894.

Application filed October 7, 1893. Serial No. 487,465. (No model.)

To all whom it may concern:

Be it known that I, THOMAS A. TEATE, a citizen of the United States, residing at Eustis, in the county of Lake and State of Florida, have invented a new and useful Improvement in Mechanical Motors, of which the following is a specification.

The invention relates to improvements in mechanical motors.

The object of the present invention is to provide simple and inexpensive means, whereby a very light motor or engine may be effectively employed for heavy work.

A further object of the invention is to enable a light engine or other motor to perform successfully heavy work with absolute safety.

The invention consists in the construction and novel combination and arrangement of parts, hereinafter fully described, illustrated in the accompanying drawings and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a side elevation showing a mechanical motor embodying the invention. Fig. 2 is a longitudinal sectional view of the same.

Like numerals of reference indicate corresponding parts in both the figures of the drawings.

1 designates a weighted oscillating or pendulum bar mounted in a frame 2 on a transverse shaft 3 and connected above and below the pivot or fulcrum point by arms 4, which have their outer ends pivoted to said pendulum or oscillating bar, and their inner ends similarly connected to an oscillating or reversely rotating wheel 5. The wheel 5 is mounted on a transverse shaft 6, and is arranged at the top of the frame, and is connected by parallel bars 7 with a similar wheel 8, which is located at the bottom of the frame on a shaft 9. The connecting bars 7 are constructed similarly to the bars or arms 4, and have their upper ends pivoted to the wheel 5, and their lower ends similarly attached to the wheel 8; and the wheels are provided at their peripheries with recesses to receive the bars and the arms. The lower wheel 8 is provided with an arm 10 depending from it and connected by a pitman 11 with a crank disk 12

of a shaft 13, which carries a fly wheel 14 adapted to receive a belt. The pitman is provided at its outer end with an opening receiving cushioning springs 15, which are located on opposite sides of the wrist pin of the crank disk. The oscillating or pendulum bar has its weight 16 arranged at its lower end, and it may be connected with any suitable motor, such as a small engine or the like, and the latter by means of the construction above described will be capable of performing heavy work successfully and safely.

It will be seen that the mechanical motor is simple in its construction and direct in its operation, and that it enables a small motor to perform successfully and safely the heaviest kinds of work which could not otherwise be performed by such a motor.

Changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

What I claim is—

1. The combination of a frame, a pendulum bar mounted therein and arranged vertically, upper and lower wheels mounted in the frame for oscillation, a pitman connected with the lower wheel, an upper bar 4 pivotally connected to the pendulum bar and to the upper wheel, and a connecting bar 7 having one end pivoted to the upper wheel and its other end pivoted to the lower wheel, substantially as described.

2. The combination of a frame, a pendulum bar mounted therein and extending above its pivotal point, upper and lower oscillating wheels mounted in the frame, bars arranged above and below the pivotal point of the pendulum bar and connecting the latter with the upper wheel, connecting bars arranged at opposite sides of and connecting the wheels, and a pitman connected with the lower wheel, substantially as described.

3. The combination of a frame, a weighted pendulum bar pivotally mounted in the frame, upper and lower oscillating wheels mounted in the frame, horizontal bars 4 arranged above and below the pivotal point of the pendulum

bar and connecting the latter with the upper
wheel, the connecting bars 7 arranged at op-
posite sides of the wheels and having their
ends pivotally secured to them, and a pitman
5 connected with the lower wheel, substantially
as described.

In testimony that I claim the foregoing as

my own I have hereto affixed my signature in
the presence of two witnesses.

THOMAS A. TEATE.

Witnesses:

W. M. DOLIVE,

J. C. LUNSIG.