

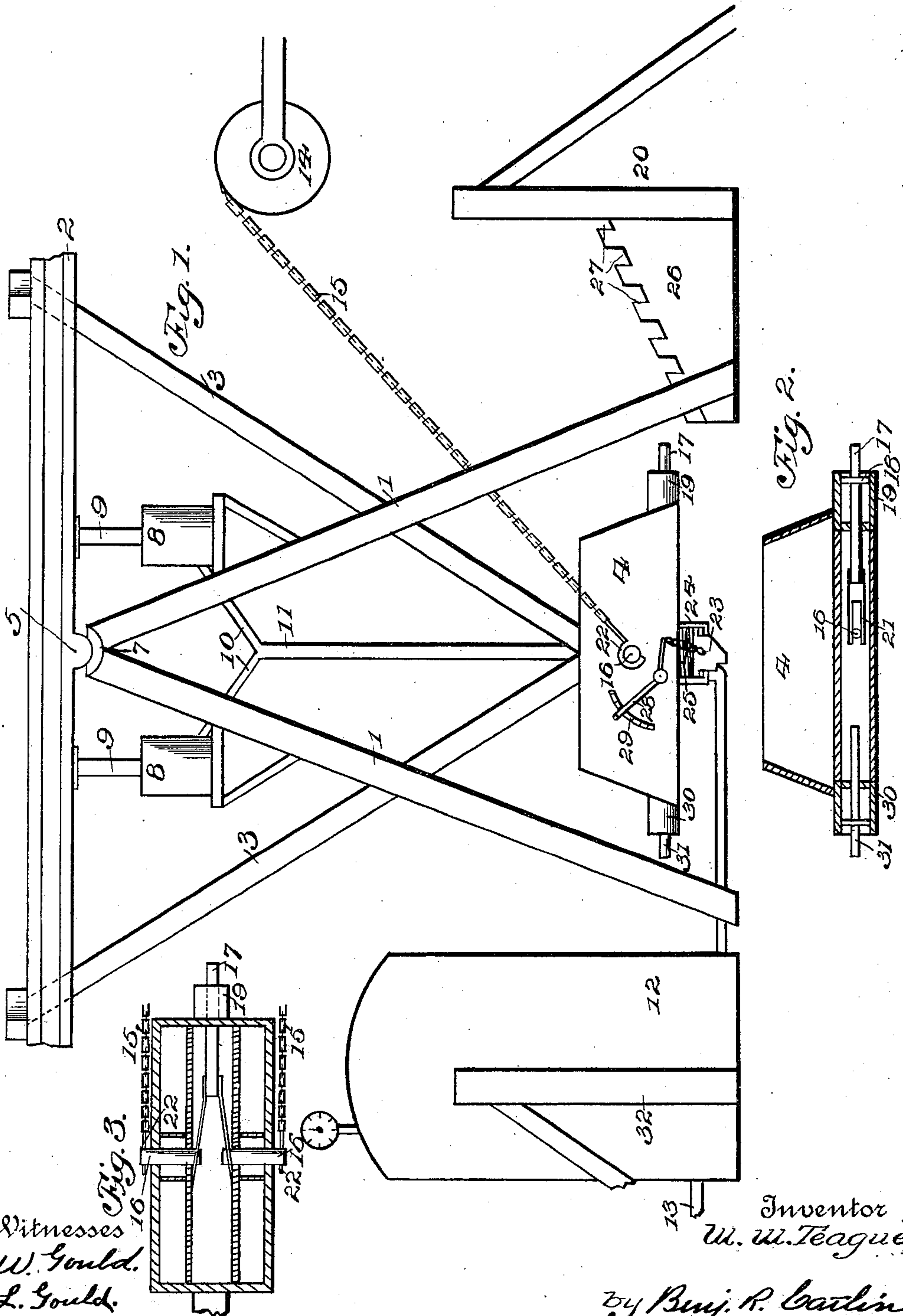
No. 658,223.

Patented Sept. 18, 1900.

W. W. TEAGUE.
MECHANICAL MOTOR.

(Application filed Mar. 22, 1900.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

WEBSTER W. TEAGUE, OF WABASH, INDIANA.

MECHANICAL MOTOR.

SPECIFICATION forming part of Letters Patent No. 658,223, dated September 18, 1900.

Application filed March 22, 1900. Serial No. 9,784. (No model.)

To all whom it may concern:

Be it known that I, WEBSTER W. TEAGUE, a resident of Wabash, in the county of Wabash and State of Indiana, have invented certain new and useful Improvements in Mechanical Motors; 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 pertains to make and use the same.

The invention relates to so-called "arc motors;" and it has for its object to provide mechanism for utilizing surplus power.

The invention consists in the construction herein described and pointed out.

In the accompanying drawings, Figure 1 is a side elevation of partially-diagrammatic character of an apparatus embodying the invention. Fig. 2 is a section on line 2 2 of Fig. 3. Fig. 3 is a section on line 3 3 of Fig. 2.

Numeral 1 indicates a frame which in practice will be made of suitable strength and stability in any usual manner.

2 is a rocking beam fixed by rods or bars 3 to a receptacle 4, for stones, gravel, or other weight. These bars may in practice be of any number and of any usual construction and suitably fixed to the weight-box to insure rigidity and strength.

The frame comprising the rocking bar, weight-box, and intermediate connections is suspended by a rounded boss 5, integral with the rocking bar upon the top of the supporting-frame, as indicated, a socket-piece joining the supporting posts or legs being denoted by 7.

8 denotes an air-compression cylinder supported on the main frame, and 9 shows piston-rods that bear loosely on the under side of the rocking beam.

10 denotes conduits conveying air from below the pistons (not shown) through a pipe 11 to a reservoir 12, and 13 is a service-pipe.

14 denotes a drum or the like driven from any convenient or desirable source of power or by a windmill.

15 denotes chains wound on the drum and hooked upon retractible pins 16, suitably connected to the weight-box for the purpose of rocking the frame, including the weight-box, and thereby raising the latter to such height that a piston-rod 17 of a piston 18, working in a

compression-cylinder 19, will be forced against a solid stop, (indicated at 20.) The piston-rod 17 is extended through the cylinder and provided with a forked end 21. The members of the fork are flared and pass through inclined slots in the pins 16, as indicated, for the purpose of moving said pins endwise either into or out of an operative situation. When the rod is moved sufficiently to the left, the pins are retracted from the hooks 22 of the chains and the connection with the weight-box is broken.

23 denotes a stop-bar sliding in a casing 24, fixed on the bottom of the box 4, and held to its work by spring 25. This stop-bar slides on the rack 26 when the weight-box is moving to the left over said rack, and it automatically engages one of the slots 27 in said rack as soon as the weight-box is released from the chains. This occurs through the before-described action of the piston-rod fork. Before the chains are released the air in the cylinder 19 will have been compressed and will aid in the initial movement of the weight-box when the stop-bar 23 is withdrawn from an upper slot 27.

In case the mill or other source of power is disconnected from the swinging box before the piston-rod becomes operative for that purpose the stop-bar becomes immediately operative to hold the box from returning. The bar 23 can be withdrawn from any slot 27 by a lever 28, connected to lift the bar will.

29 denotes a rack engaged by the lever 28 to hold down the lever and to hold the stop-bar inoperative when the weight-box oscillates.

30 denotes an air-compression cylinder with a piston-rod 31, that is adapted in the extreme vibration of the box to strike a stop 32, whereby air is compressed in the cylinder and aids in returning the weight.

It is obvious that power may be stored by mechanism such as described and utilized at will by means of the air compressed in the reservoir 12.

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

1. In a mechanical motor, a support, a rigid rocking frame comprising a beam centrally

mounted on said support, a weight, and inclined rods rigidly connecting the weight and the ends of the beam, means for connecting the weight to a source of power, mechanism
5 for automatically releasing said connecting means when the weight has been moved a predetermined distance, and a stop for the motor automatically operative on release of said connecting means.

10 2. In a mechanical motor, a support, a rigid rocking frame comprising a beam centrally mounted on said support, a weight, and inclined rods rigidly connecting the weight and the ends of the beam, a motor, and means for
15 connecting the motor directly to the weight whereby said weight, beam and their connections can be directly and positively moved, and mechanism for automatically disconnecting the weight and motor.

20 3. In a mechanical motor, a support, a rigid rocking frame comprising a beam centrally mounted on said support, a weight, and inclined rods rigidly connecting the weight and the ends of the beam, a motor, and means for

connecting the motor directly to the weight 25 whereby said weight, beam and their connections can be directly and positively moved, and mechanism for automatically disconnecting the weight and motor, said mechanism being also adapted to store power to aid in 30 the initial movement of the motor.

4. The rocking-frame support, the rocking frame, the weight fixed to said frame, air-pumps operated thereby, means of connecting the weight to a motor, a bar provided 35 with stops arranged in the path of the weight to automatically engage and hold it in raised situations, a device carried by the weight to engage the stops, and means for tripping said device. 40

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

WEBSTER W. TEAGUE.

Witnesses:

OLIVER H. BOGUE,
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