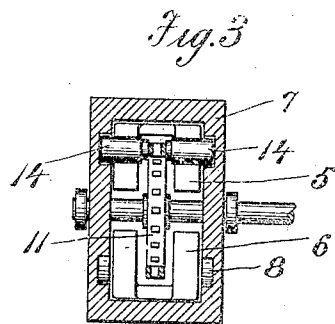
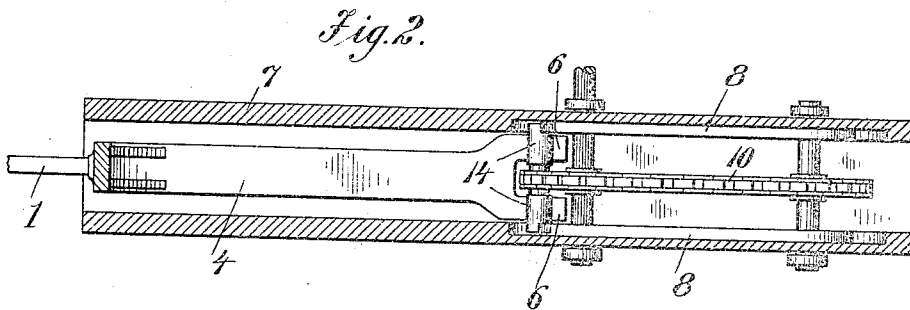
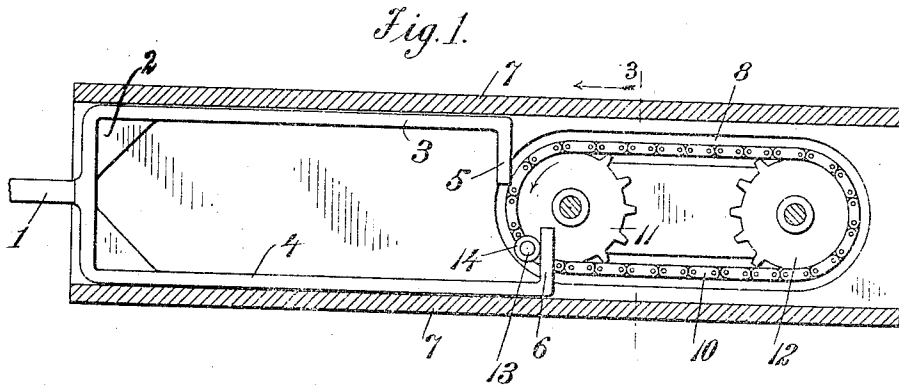


B. HUSE
MECHANICAL MOVEMENT.
APPLICATION FILED MAR. 17, 1908.

915,181.

Patented Mar. 16. 1909.



Witnesses
A. L. Huse
J. Goodenough

Inventor
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UNITED STATES PATENT OFFICE.

BYRON HUSE, OF PALERMO, CALIFORNIA, ASSIGNOR OF ONE-HALF TO GEORGE M. SPARKS,
OF OROVILLE, CALIFORNIA.

MECHANICAL MOVEMENT.

No. 915,181.

Specification of Letters Patent.

Patented March 16, 1909.

Application filed March 17, 1908. Serial No. 421,680.

To all whom it may concern:

Be it known that I, BYRON HUSE, a citizen of the United States, residing at Palermo, in the county of Butte and State of California, have invented a new and useful Mechanical Movement, of which the following is a specification in such full and clear terms as will enable those skilled in the art to construct and use the same.

This invention relates to a device that is used for the purpose of changing a rotary motion of any shaft or other power generating device into a reciprocatory motion, where it is necessary to have the stroke longer than would be advisable to have it were the ordinary eccentric pin used to convert the motion from rotary to reciprocatory.

This device is used for the purpose of changing the motion of windmills to reciprocatory where the stroke is quite long, or in any other place where the stroke may be desired to be made different at different times, the change in the length of stroke being easily made by simply moving one of the sprocket wheels closer to the other and taking out some of the links of the chain used.

In the drawing, in which the same numeral of reference is applied to the same parts throughout, Figure 1 is a side elevation of the device with some of the parts shown in section, Fig. 2 is a plan view of the device with the guides shown in section, and Fig. 3 is an end elevation of the device looking in the direction of the arrow in Fig. 1.

The numeral 1 represents a pitman which may be connected with any desired machinery where a reciprocating motion is desired. To the pitman is secured a head 2 which has the arms 3 and 4 connected therewith. Each of the arms 3 and 4 is provided with a forked end having fingers 5 and 6 those on the arm 3 depending from the arm and those on the arm 4 projecting upwardly. The arms operate through a guide 7 said guide having the channels 8 and 9 to guide the rollers of the chains 10. The chain which drives the arms passes over the sprocket wheels 11 and 12 one or both of which may be used for the generation of the power used. The chain is provided with the pin 13 which has a roller 14 on each side of the same, the rollers being long enough to project across the fingers 5 and 6 of the arms far enough to pass into the slots at the sides of the guides. It will be observed that each set of fingers is just long

enough to hold the rollers securely and yet at the same time pass over the shaft of the adjacent sprocket wheel.

The operation of the device is as follows: The chain is moved in the direction of the arrow by the rotation of the sprocket wheels, the rollers being carried along with the chain and pushing the arm 3 to the position indicated in the drawing. The chain continues to travel and as it goes forward the rollers pass off the arm 3 and pass down to the inner side of the upwardly extending fingers on the arm 4 and as the chain continues its travel the arm is drawn to the other end of the guide, where the chain causes the pins to rise up away from the lower set of fingers and pass in front of the upper set of fingers again thus pushing the pitman back to the original position.

Having thus described my invention what I claim as new and desire to secure by Letters Patent of the United States is as follows, modifications within the scope of the claims being reserved.

1. In a mechanical movement, the combination of a pair of sprockets spaced a distance apart on parallel shafts, a sprocket chain passing over the wheels, a pin carried by the chain and having a roller on each side thereof, a pitman, two arms connected with the pitman each arm having a pair of fingers the fingers of one arm being in advance of the fingers on the other arm, and a guide for the arms and rollers.

2. In a mechanical movement, the combination of a frame having a guide slot on each side thereof, a pair of sprocket wheels spaced a distance apart on parallel shafts, a sprocket chain passing over the wheels, a pin carried by the chain and having rollers on each side thereof, a pitman adapted to be reciprocated through the frame, arms connected with the pitman and adapted to be directed by the frame, and two fingers depending from and extending above the respective arms and adapted to be carried back and forth by the rollers on the chain.

In testimony whereof I have set my hand this 3rd day of March A. D. 1908, in the presence of the two subscribing witnesses.

BYRON HUSE.

Witnesses:

GEO. P. MORSE,
H. T. BATCHELDER.