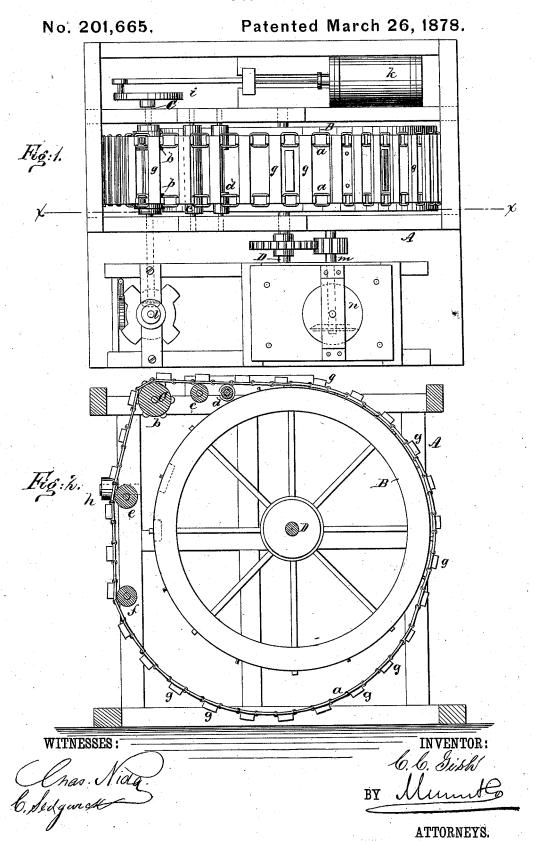
C. C. GISH.
Motor.



JNITED STATES PATENT OFFICE.

CHRISTOPHER C. GISH, OF SALEM, KANSAS.

IMPROVEMENT IN MOTORS.

Specification forming part of Letters Patent No. 201,665, dated March 26, 1878; application filed December 20, 1877.

To all whom it may concern:

Be it known that I, CHRISTOPHER C. GISH, of Salem, in the county of Jewell and State of Kansas, have invented a new and Improved Motor, of which the following is a specifica-

Figure 1 is a plan view of my improved motor. Fig. 2 is a vertical section taken on line x x in Fig. 1.

Similar letters of reference indicate corre-

sponding parts.

My invention consists in the combination of a heavily-weighted chain, a chain-wheel of large diameter, and an engine, a water-wheel, or other convenient power for raising the chain to the top of the wheel, the object being to utilize the weights on the chain as they descend.

Referring to the drawing, A is a frame, which supports the various parts of the machine; and B is a double chain-wheel of large diameter, journaled in the frame A, and carrying the chains a a, which run over the chain-wheels b b, secured on the shaft C, and over guide-rollers c d at the top of the frame, and also over rollers ef, journaled in the side of the frame. To the chains aa weight-bars g are attached at short intervals. These weight-bars may be made of any heavy material—such as lead or iron. The chains, thus connected, are guided laterally by wheels h, journaled at the side of the frame. Upon the shaft C a crank, i, is placed, which is driven by the steam-engine

cylinder k. The opposite end of the shaft C is connected with the vertical shaft l of a turbine water-wheel.

Power is taken from the shaft D of the wheel B. In the present case it is transmitted to a shaft, m, which is connected with a burr-

stone, n, for grinding grain.
The operation of the motor is as follows: The shaft C is rotated by means of the engine, or by a water-wheel, or by horse-power, or any other convenient motor, so as to raise the slack portion of the weighted chain that is suspended below the wheel B. The weights that lie upon the wheel from a point at the top over a quarter of its circumference are in this manner rendered effective in propelling the wheel B.

Having thus described my invention, I claim as new and desire to secure by Letters Pat-

1. The combination of the heavily-weighted chains, the chain-wheel, and a motor for elevating the chains, substantially as herein shown and described.

2. The chain-wheel B, the chains a, carrying weights g, the chain-wheels b, and a series of guide-rollers, in combination, substantially as and for the purpose herein shown and described.

CHRISTOPHER C. GISH.

Witnesses:

L. P. LYTLE, John N. Cráwford.