J. F. McCREARY.

Animal-Power.

No. 216,205. Patented June 3, 1879.

Fig. 1.

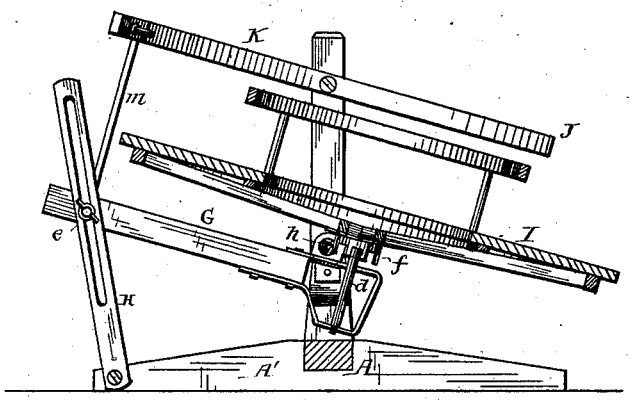
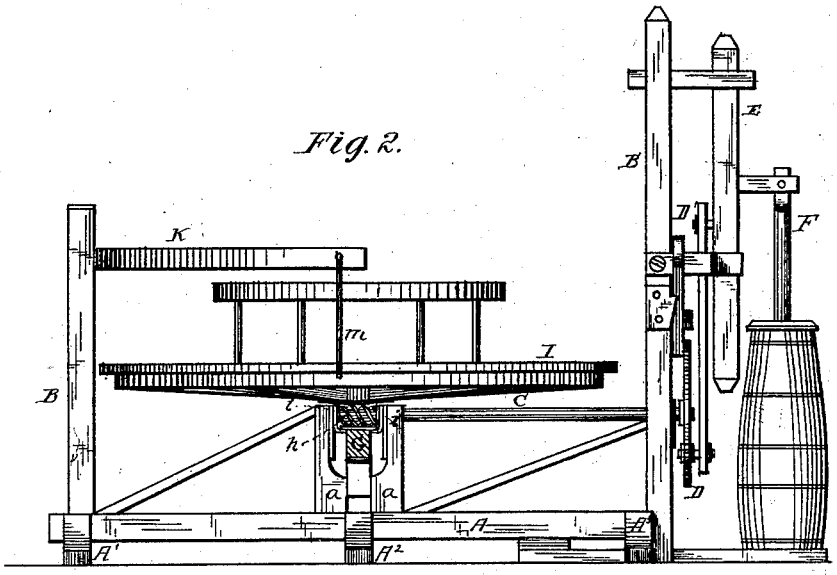


Fig. 2.



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UNITED STATES PATENT OFFICE.

JAMES F. McCREARY, OF NEW BRIGHTON, PENNSYLVANIA.

IMPROVEMENT IN ANIMAL-POWERS.

Specification forming part of Letters Patent No. **216,205**, dated June 3, 1879; application filed December 7, 1878.

To all whom it may concern:

Be it known that I, JAMES F. McCREARY, of New Brighton, Beaver county, Pennsylvania, have invented Improvements in Animal-Powers, of which the following is a specification.

My invention is an improved animal-power, constructed as fully described hereinafter, to avoid friction and loss of power, permit ready adjustment, and regulate the speed, as may be desired.

In the drawings forming part of the specification, Figure 1 is a sectional elevation of my improved animal-power; Fig. 2, a side elevation.

The frame of the machine consists of the base-strips A A^1 A^2 A^3 and the uprights B B′. In standards *a*, supported by the base, turns a shaft, C, carrying a crank-wheel, D, to which is connected a pitman, D′, attached to a slide, E, carrying the churn-dasher F. An arm, G, is provided with ears *i*, through which passes the shaft C, thereby pivoting the arm to said shaft, on which it turns as a center, a screw-stud, *e*, at the outer end of the arm passing through a slot in a bar, H, pivoted to the base, thus permitting the arm to be adjusted to and secured in any desired position. In a bracket carried by the arm G turns a shaft, *d*, carrying the annular platform I, having a central opening surrounded by a railing, J. Upon the shaft *d* is a toothed wheel, *f*, which gears with a worm, *h*, on the shaft C between the ears *i*. To the standard B is pivoted an adjustable rail, K, connected by a rod, *m*, to the end of the arm G.

As the platform revolves, the wheel *f*, acting on the worm *h*, drives the shaft C and imparts motion to the churn-dasher.

The arm G constitutes the entire support of the platform I, which, therefore, revolves without any other friction than that resulting from the bearings of the shaft *d*. Owing to this connection, a platform may be adjusted by simply altering the angle of the arm G, the wheel and worm remaining in gear as the wheel is carried around the center of the worm-shaft.

As the angle of the platform is altered, the railing K, owing to its connection with the arm G, is maintained parallel with the platform, the said railing serving as a guard to prevent the animal from slipping from the platform.

The use of the worm in connection with the adjustable platform is important, as, whatever may be the angle of the platform, the worm will prevent any excessive motion of the platform, acting as a brake and preventing injury to the animal.

I claim—

1. The combination, in an animal-power, of the frame supporting the driving-shaft C, and the arm G, turning upon the same axis as the shaft and supporting the platform I, substantially as described.

2. The combination of the worm-shaft C, the arm G, hung adjustably thereto, and the platform I, its shaft D, and wheel *f*, carried by said arm, as specified.

3. The combination of the arm G, carrying the platform, and adjustable slotted bar H and securing device *e*, as set forth.

4. The adjustable railing K, combined with the adjustable platform I and its appliances, as described.

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

JAMES F. McCREARY.

Witnesses:
JAMES STEVENS,
JAMES GLASS.