

DANIEL W. KETCHAM.

Apparatus for Operating Churns.

No. 124,900.

Patented March 26, 1872.

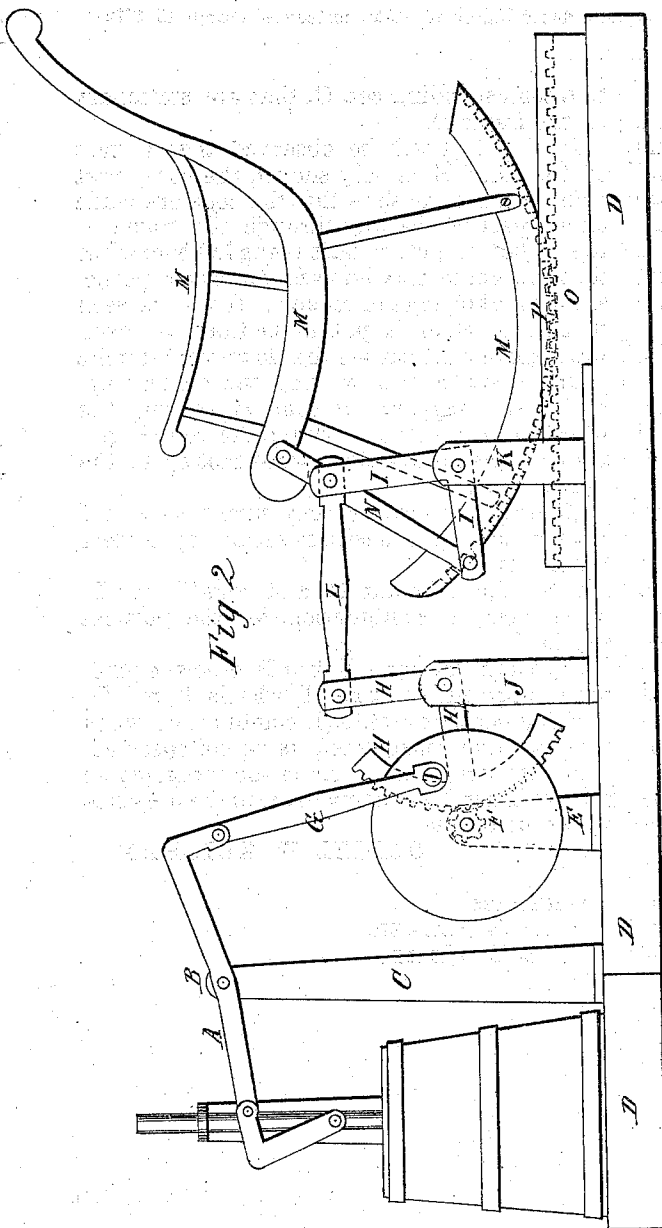


Fig. 2

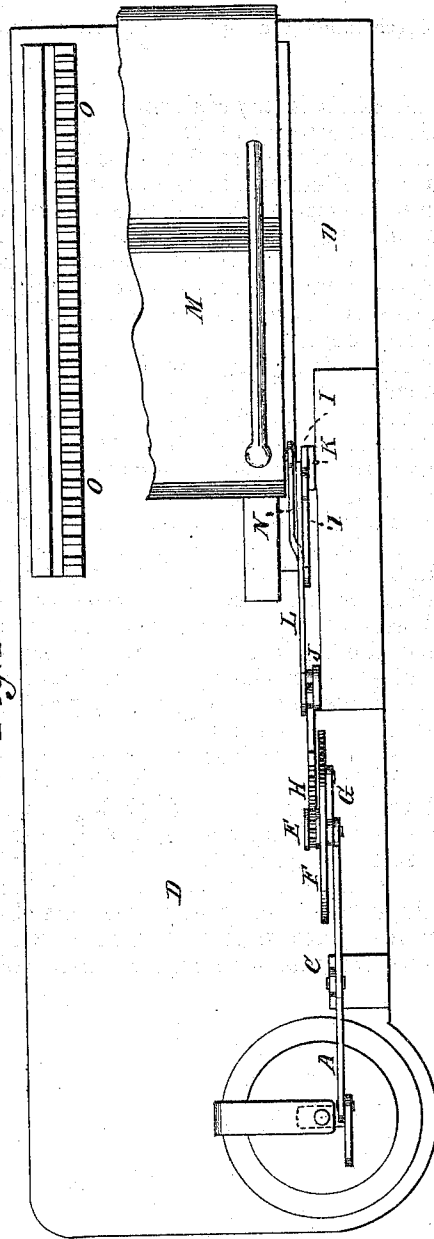


Fig. 1

Witnesses

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## IMPROVEMENT IN APPARATUS FOR OPERATING CHURNS.

Specification forming part of Letters Patent No. 124,900, dated March 26, 1872; antedated March 19, 1872.

*To all whom it may concern:*

Be it known that I, DANIEL W. KETCHAM, of the city of Owasso, Shiawassee county, and State of Michigan, have invented a new and useful Device for Churn-Power; and I declare the following to be a full, true, and exact description of the same, reference being had to the accompanying drawing which forms a part of this specification, and the letters of reference marked thereon.

Figure 1 is a plan view of the device; Fig. 2, a side view of the same.

Letter A is a working-beam or lever, with its fulcrum at B, to which is attached a churn or any other implement which is to receive motion. C is a standard, solid, in the frame D, for the purpose of forming a fulcrum and bearing for the lever A. E is also a standard, solid in the frame D, which is the support and bearing for the wheels F. These wheels are both secured to one shaft, with its bearing between them. One of these is a cog-wheel. The other is provided with wrist and pin, to which is attached the connecting-rod G and lever A. H is a segment of cogs and elbow-lever, with its bearings on I, which is also solid in the frame D. J is another elbow-lever, with its bearings on R, which is solid in the frame D, and these elbow-levers H and J are connected by the rod L. M is a rocker-chair, which is attached to the device by the connecting-rod N. In order to keep the chair in its proper place while in operation the rockers are provided with cogs P, which mesh in-

to a corresponding set, O, that are stationary on the frame D.

In Fig. 1 it will be observed that a part of the chair M is only shown, the other part being removed to show that the cogs are made only a part of the way through the frame or the rocker, the other part being left smooth so that the chair may be used for other purposes without change of rockers. It will be seen that as the chair is put in motion its downward movement causes the downward stroke of the elbow-lever J, moving the connecting-rod L and segment of cogs H, causing the wheels F to revolve, working the rod G, giving the upward and downward motion to the working-beam A.

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

1. I claim the chair M, and cogs O and P, when used in combination, for the purpose specified.

2. I claim the chair M, rod N, elbow-lever J, rod L, segment of cogs H, wheels F, rod G, working-beam or lever A, in combination, when arranged and constructed as herein specified.

In testimony that I claim the foregoing as my own I hereby affix my name in the presence of two witnesses.

DANIEL W. KETCHAM.

Witnesses:

H. S. PALMER,  
E. E. WHITE.