

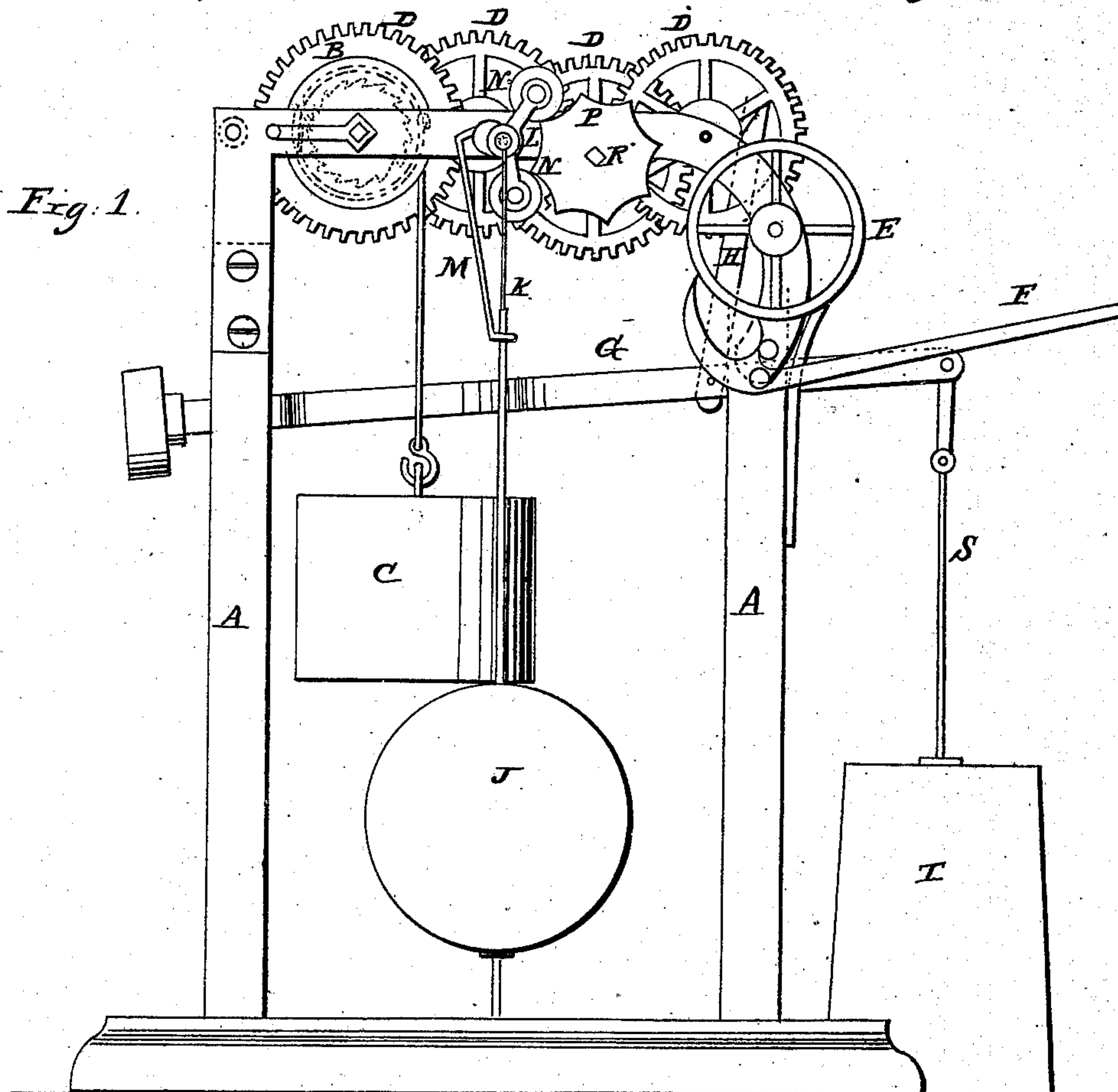
*L. Scott*

*Churn*

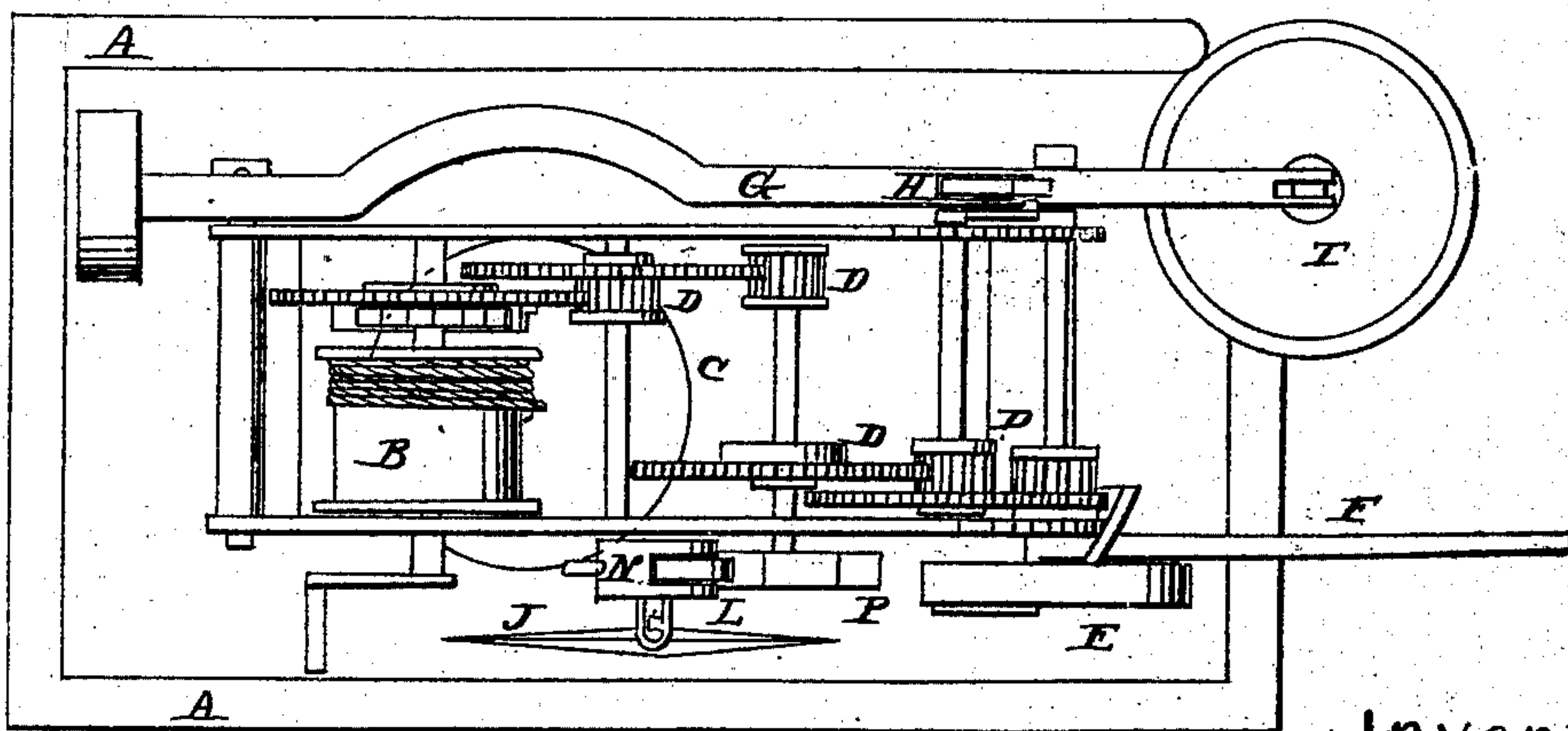
*No 78,139.*

*Patented May 19, 1868.*

*Fig. 1.*



*Fig. 2.*



Witnesses:

*W. D. Mayhew*  
*Thos Cummings*

Inventor

*L. Scott*  
By his atty  
*J. A. Reigar*



# United States Patent Office.

LEVI SCOTT, OF BURGETTSTOWN, PENNSYLVANIA.

*Letters Patent No. 78,139, dated May 19, 1868.*

## IMPROVEMENT IN CHURNS.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, LEVI SCOTT, of Burgettstown, Washington county, and State of Pennsylvania, have invented an Improved Device for Operating Churns; and I hereby declare the following to be an exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification, in which—

Figure 1 represents a side elevation of the churn and its devices.

Figure 2 is a top view of the same.

The nature of my invention consists in the construction of a curved-edge wheel, octagon-shaped, and curves or concavities between the points of the octagon, with independent rollers, at the extremities of two arms, as a segment-head, at the centre of which the pendulum-rod is attached, the rollers operating in the curves of the edge-wheel, so as to cause a regular vibration of the pendulum and regular motion to the churn; the edge-wheel and segment-head answering the purpose of the ordinary verge of clock-gearing, but so constructed as to have manifold strength and power to operate the churn with greater rapidity and regularity than could be accomplished by the ordinary verge of a clock.

A represents the upright frame, that supports the machinery; B, the drum, by which the weight C is wound up. D D D D are the ordinary cog and pinion-gearing, common to clock-work. E, the fly-wheel, driven by gearing D. F, a brake, to check the motion of the fly-wheel, when required. G is the horizontal lever, operated up and down by the pitman H, connected with the gearing D. J, the pendulum, and K the pendulum-rod, that is suspended at the centre of the segment-head L. M, the attachment of the segment-head, that operates and vibrates the pendulum according to the forward and backward movement of the rollers N. P is the octagon-wheel, that revolves upon the shaft R, and driven by the gearing D; and, as it revolves, the rollers N operate in the concavities of the edge of the wheel, while each point of the wheel P forces the rollers N alternately back and forward in a vibrating action, giving a regular and powerful vibration to the pendulum J, so as to regulate the upward and downward movement of the lever G, by means of which the upright jointed lever S, that is pivoted to the extremity of lever G, is propelled, and operates the dashers of the churn T, that is, an ordinary upright churn.

Thus the churning operation is not only facilitated, but is accomplished with certainty, saving much labor, completely regulated, and effectually performed.

I do not claim the use of clock-work for operating churns, for that has been used; but

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination and arrangement of the wheel P, rollers N N, segment-head L, pendulum J K, horizontal lever G, weight C, dasher-rod S, pitman H, and brake F, with the gearing D D D D, and frame A, constructed substantially as described.

LEVI SCOTT.

Witnesses:

SAMUEL SCOTT,  
EDM. F. BROWN.