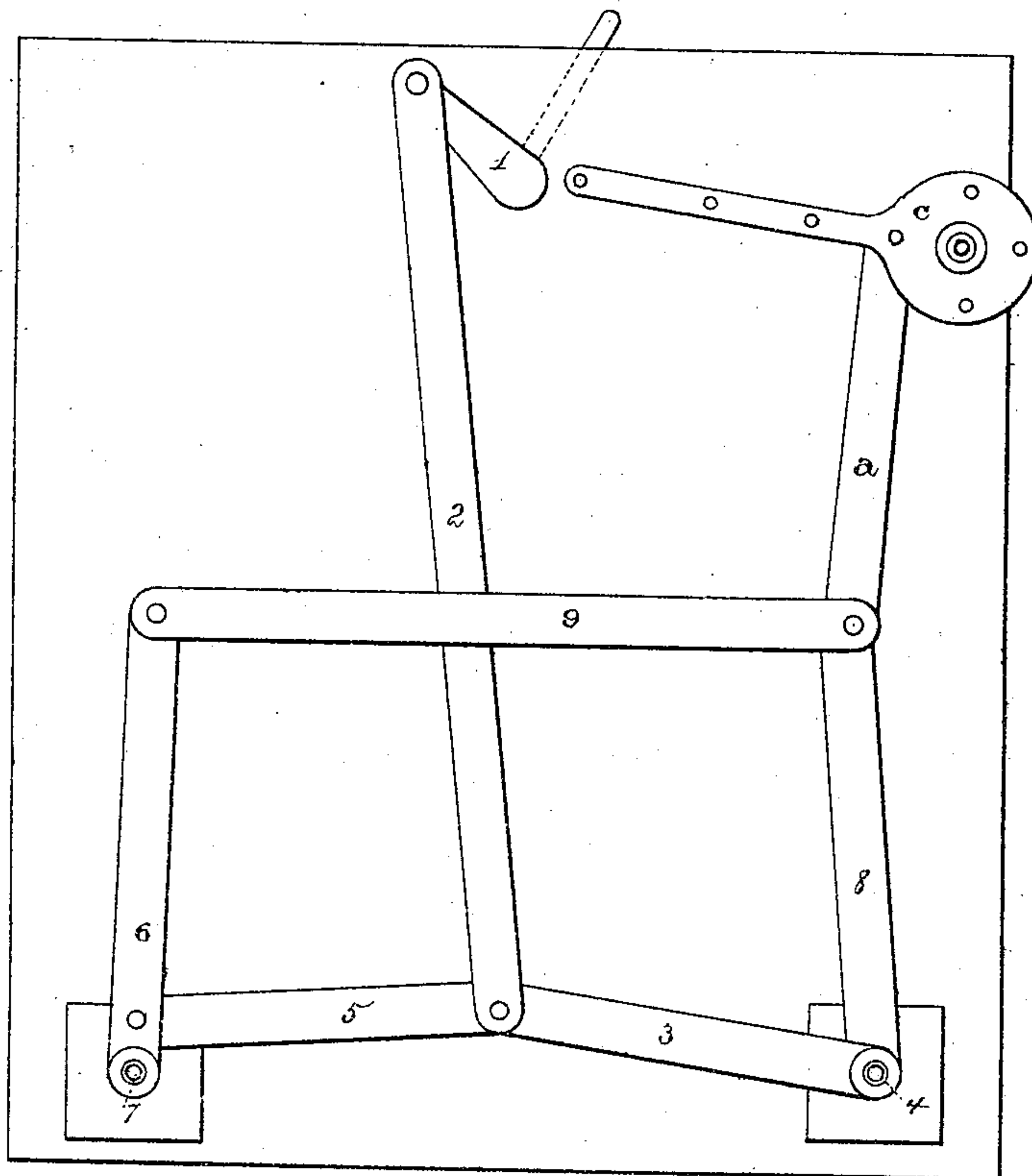


**J. DAGUIER.**  
**Mechanical Movements.**

No. 140,683.

Patented July 8, 1873.



WITNESSES.

*Wm. Johnson.*

*W. F. Kendig.*

INVENTOR.

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# UNITED STATES PATENT OFFICE.

JOHN DAGUIER, OF CINCINNATI, OHIO.

## IMPROVEMENT IN MECHANICAL MOVEMENTS.

Specification forming part of Letters Patent No. **140,683**, dated July 8, 1873; application filed May 31, 1873.

*To all whom it may concern:*

Be it known that I, JOHN DAGUIER, of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Mechanical Movements; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

The nature of my invention relates to an improvement in mechanical movements for operating churns, sewing-machines, and devices of all kinds where a reciprocating motion is required; and it consists in the arrangement and combination of parts which will be more fully described hereafter.

The accompanying drawing represents my invention.

1 represents a crank, to which is attached a pitman, 2. To the opposite end of this pitman are pivoted two levers, one of which, 3, has its other end attached to the pivot-pin 4, and the other one, 5, has its outer end secured to the lever 6 pivoted on the pin 7. Pivoted on the pin 4 is a lever, 8, which is always parallel with the one 6, to which it is connected

by the cross-bar 9. Pivoted to the same pin which binds the levers 9 and 8 together is a connecting-rod, *a*, which imparts the reciprocating motion of these two levers to the pitman *c*.

As the levers are here shown the pitman 2 and levers 3 5 6 form a section, and, using these parts alone, for every turn of the crank I obtain two strokes of the pitman *c*. When two sections are combined, as here shown, then for every revolution of the crank I obtain four strokes of the pitman, and so double the number of strokes for every additional section.

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

A mechanical movement, in which the parts are arranged and combined substantially as shown and described

In testimony that I claim the foregoing, I have hereunto set my hand this 24th day of May, 1873.

JOHN DAGUIER.

Witnesses:

JOHN H. BODLEY,  
R. B. HAWKINS.