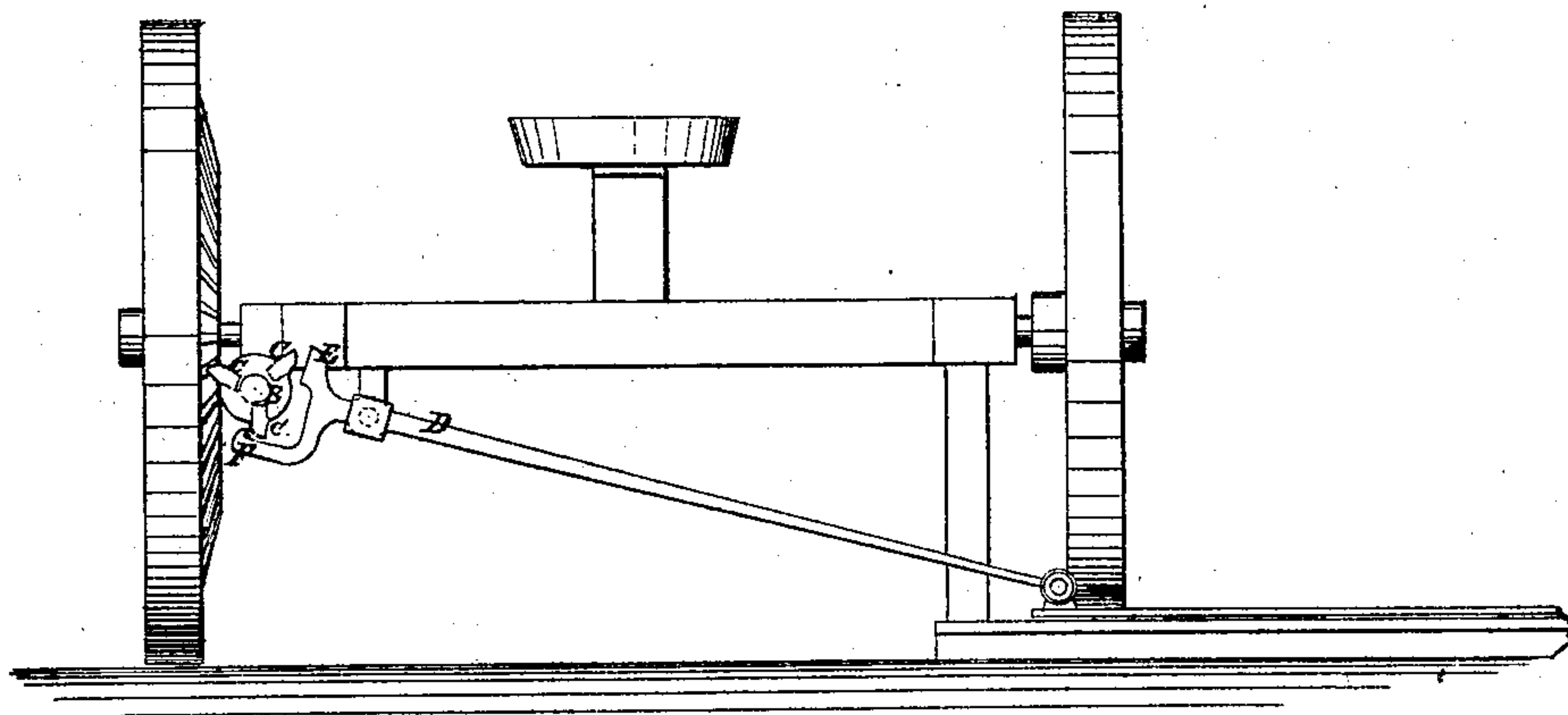
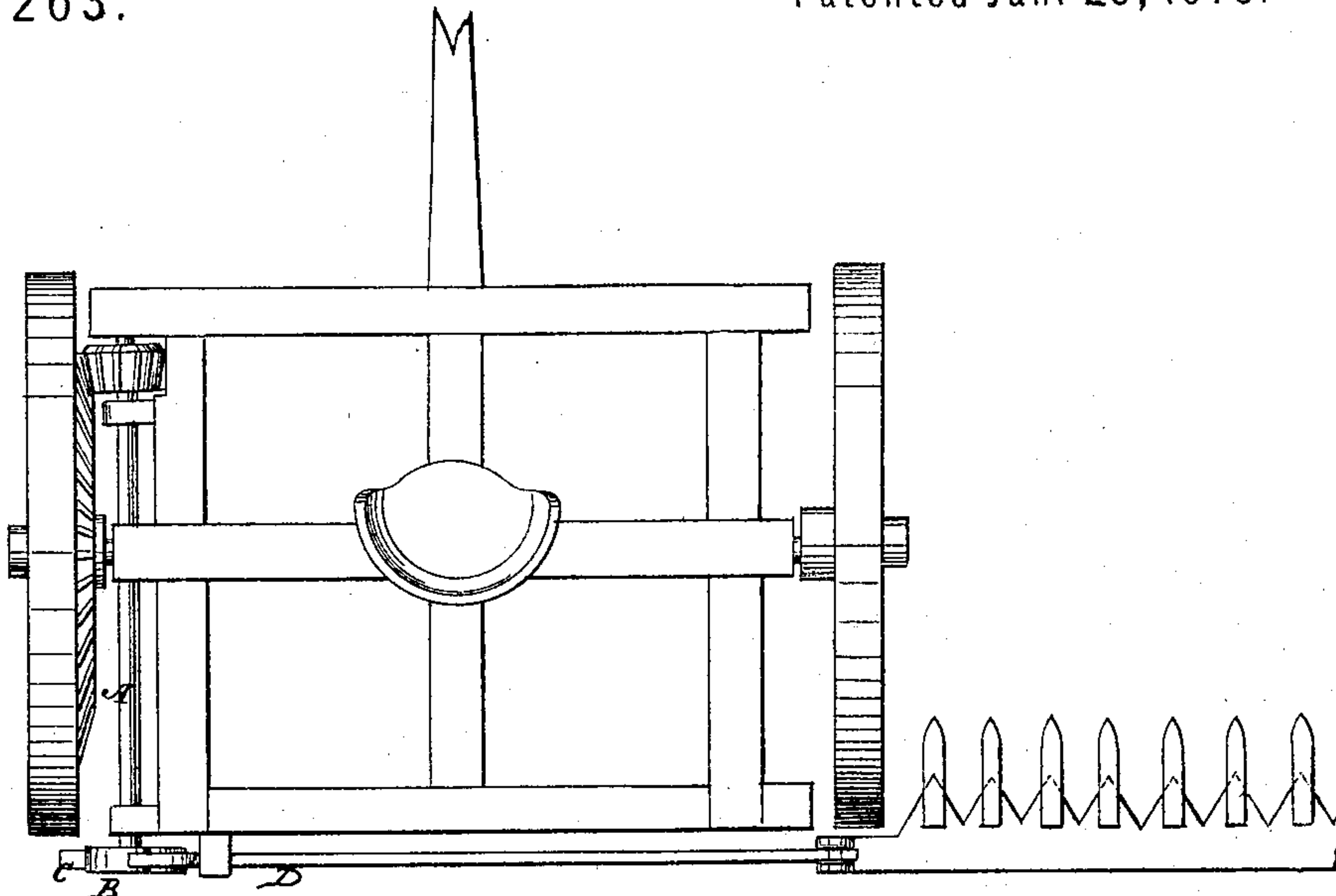


C. W. CARR.

Mechanical Movements.

No. 135,263.

Patented Jan. 28, 1873.



Witnesses:

*Chas. Nida*  
*C. Sedgwick*

Inventor:

*C. W. Carr*

PER

*Wm. L. ...*  
Attorneys.

# UNITED STATES PATENT OFFICE.

CHARLES W. CARR, OF PAOLA, KANSAS.

## IMPROVEMENT IN MECHANICAL MOVEMENTS.

Specification forming part of Letters Patent No. **135,263**, dated January 28, 1873.

*To all whom it may concern:*

Be it known that I, CHARLES W. CARR, of Paola, in the county of Miami and State of Kansas, have invented a new and Improved Mechanical Movement, of which the following is a specification:

My invention consists of a cam with three or five leaves or tappets and a connecting-rod with a toe on each of two opposite or nearly opposite points across the axis and fronting the face and arranged in such manner that while the tappets or leaves act upon one toe the other is clear of them, and vice versa, and each toe is alternately acted upon, one being driven one way and the other the other way, so that three or five double movements of the connecting-rod are obtained to one revolution of the cam; but I do not limit myself to cams with three or five tappets or leaves, because, while I prefer these numbers, I can, by enlarging the cam and increasing the tappets, have any greater number of movements that I wish. The contrivance is designed more particularly for operating the cutter-bars of mowing-machines and harvesters, but it is applicable to other machines, and I propose to make such application of it, as I may wish.

Figure 1 is a plan view of some of the main portions of a mowing-machine, showing the application of my improved movement; and Fig. 2 is a rear elevation of it.

Similar letters of reference indicate corresponding parts.

A represents the cam-shaft, which, by preference, will be geared with the truck-wheel

most distant from the cutter, and will extend along the frame to the rear where the cam-wheel B will be fitted upon it. For a mowing-machine this cam will preferably have three leaves or tappets, C, arranged at equal distances apart. D represents the connecting-rod, which is branched in front of the cam-wheel and has one toe, E, fronting the top of the face of the cam, and another, F, fronting the bottom. The toe E is arranged for the tappets to so act upon it as to drive the rod to the right, and the toe F is arranged for the tappets to drive the rod to the left, and the tappets and toes are so arranged, relatively, that one tappet escapes from one toe after moving the rod one way just as another tappet comes up to the other toe for moving the rod the other way, thus maintaining a continuous reciprocating motion; also increasing the motion according to the number of tappets.

I propose to make the tappets or leaves adjustable so they can be shifted outward as they wear off at the points.

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

The combination of a cam-wheel, B, with three, five, or more tappets or leaves, with a branched connecting-rod having two toes, E F, the tappets and toes being relatively arranged, substantially as specified.

CHAS. W. CARR.

Witnesses:

T. B. MOSHER,  
C. SEDGWICK.