

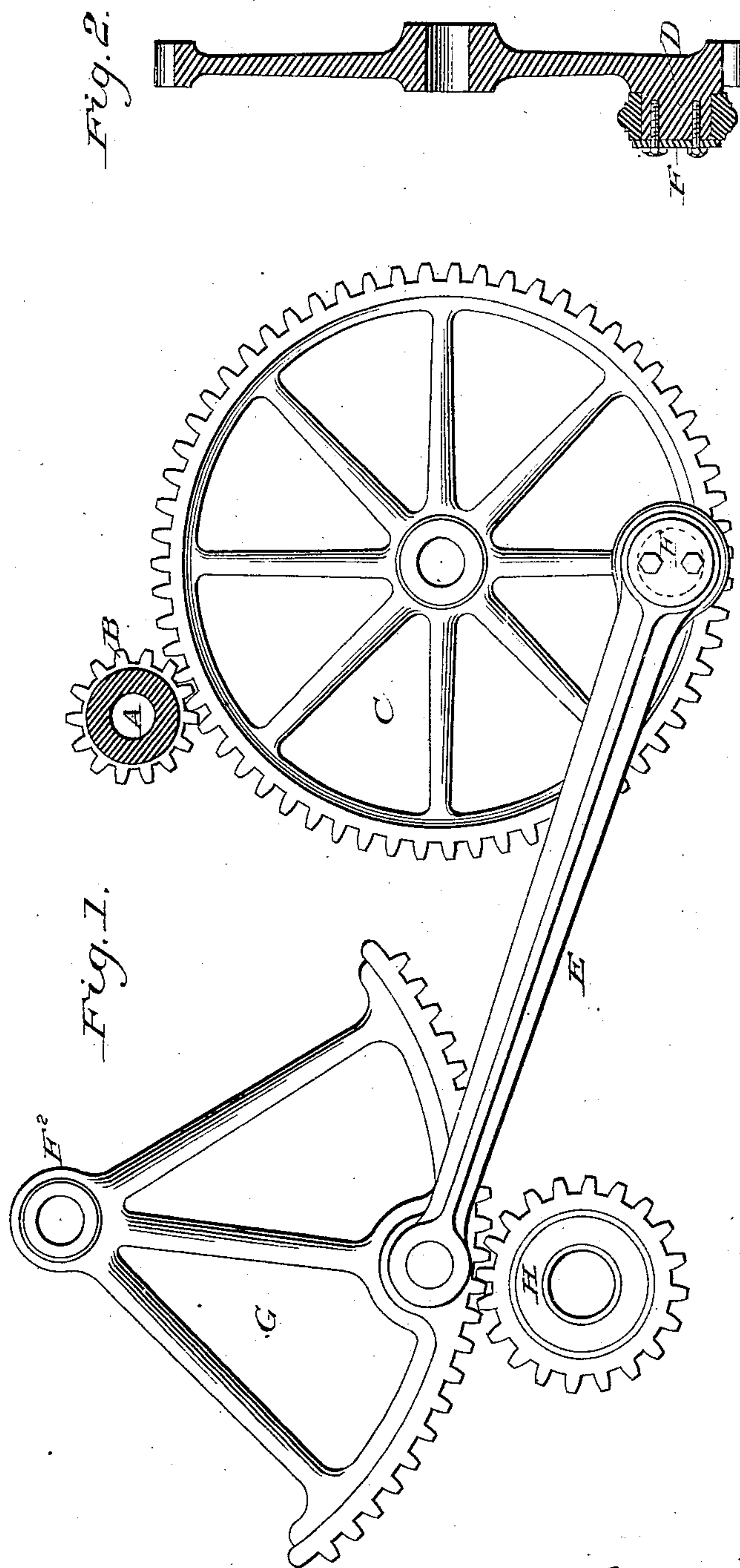
(No Model.)

C. C. BURTON.

ALTERNATING REVERSING MECHANICAL MOVEMENT.

No. 312,249.

Patented Feb. 17, 1885.



Witnesses:

C. E. Davenport,
Edwin M. Cooke.

Inventor.

Charles Cae Burton

UNITED STATES PATENT OFFICE.

CHARLES COE BURTON, OF UTICA, NEW YORK.

ALTERNATING REVERSING MECHANICAL MOVEMENT.

SPECIFICATION forming part of Letters Patent No. 312,249, dated February 17, 1885.

Application filed October 29, 1884. (No model.)

To all whom it may concern:

Be it known that I, CHARLES COE BURTON, a resident of the city of Utica, in the county of Oneida and State of New York, (formerly in allegiance to the Queen of Great Britain, and a subject thereof, but who came to the United States in the year 1875, and has ever since resided therein, and who, on February 23, 1884, filed and made his declaration of intention to become a citizen of the United States, in the circuit court for the county of Monroe, in the State of Michigan, where he then resided,) have invented a new and useful Arrangement of an Alternating Reversing Mechanical Movement; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters and figures marked thereon.

My invention relates to the novel arrangement of the reversing mechanical movement in the manner and by the mechanism herein-after more fully described and claimed.

In the accompanying drawings, Figure 1 represents a side view of the complete gear, showing the driving-shaft and pinion. This pinion is in gear with the transmitting-wheel, upon which is pivoted a connecting-rod, the other end of which is pivoted in a gear-sector which is in gear with the pinion, this performing one revolution for each oscillation of the gear-sector. Fig. 2 represents a vertical section view of the transmitting-wheel, taken at line *x x*, Fig. 1.

Having described my invention with reference to the figures marked on the accompanying drawings, I will now proceed to describe it by reference to the letters marked thereon, in which similar letters refer to corresponding parts throughout the several views.

A represents the driving-shaft.

B represents the pinion.

C represents the transmitting-wheel, the gear of which meshes in the pinion-gear.

D represents a stud cast upon an enlargement on one of the spokes of the wheel, forming a pivot upon which the connecting-rod is fitted.

E represents the connecting-rod, one end connecting by means of cap and stud F to wheel C, and the opposite end is pivoted to gear-sector G at F'.

G is a segment gear-sector pivoted at F², which meshes in pinion-wheel H, upon which the reverse circular motion takes place when the connecting-rod passes the dead-center.

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

1. The combination of the various parts described in the foregoing specification, all arranged and working together, as described, so as to produce an alternating reversing circular motion, substantially as described.

2. The reverse mechanical movement produced by the continuous revolution in one direction of a pinion-wheel meshing into the gear of a wheel, the latter connected near the circumference thereof with the gear-sector near its circumference, the gear-sector meshing into a wheel rigidly attached to the shaft, to which a reverse motion is imparted, as described.

Dated and signed at Utica, New York, this 24th day of October, 1884.

CHARLES COE BURTON.

Witnesses:

C. E. DAVENPORT,
EDWARD H. WELLS.