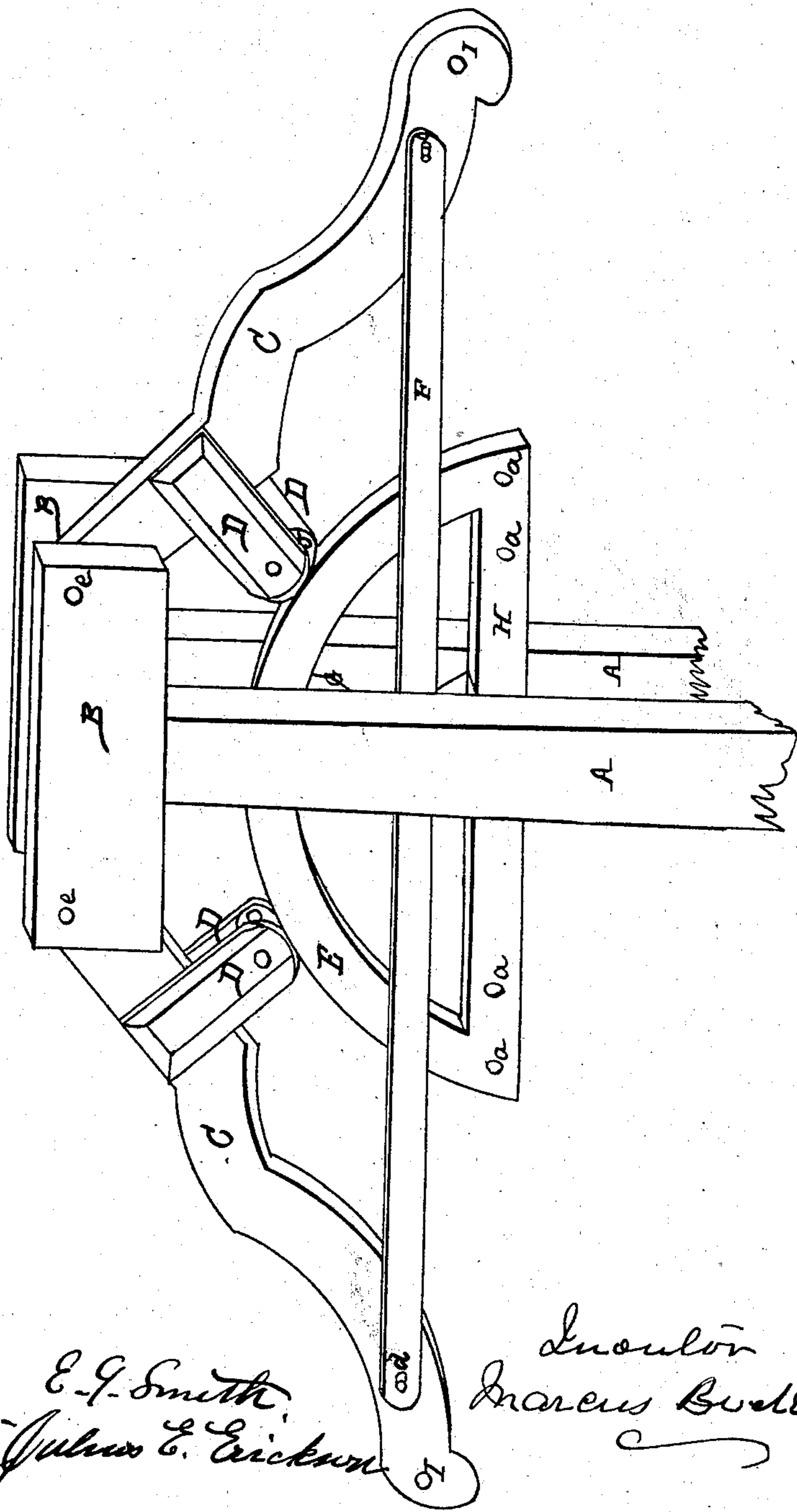


M. BOCKMAN.
MECHANICAL MOVEMENT.

No. 74,979.

Patented Mar. 3, 1868.



Witnesses - E. G. Smith
Julius E. Erickson

Inventor
Marcus Bockman

*The drawing in this
is not in place*

United States Patent Office.

MARCUS BOCKMAN, OF BROOKLYN, NEW YORK.

Letters Patent No. 74,979, dated March 3, 1868.

IMPROVEMENT IN MECHANICAL MOVEMENT.

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, MARCUS BOCKMAN, of Brooklyn, in the county of Kings, and State of New York, have invented certain new and useful Improvements in Mechanical Movements; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

In the annexed drawings, making part of this specification, A A represent two uprights, which are erected upon any suitable base, and from six inches to one foot apart, or more or less, if desirable. These uprights have two cross-pieces, B B, framed into them at their upper ends, said cross-pieces being parallel, as seen.

C C represent two levers, which are pivoted or hinged, at their inner ends, between the cross-pieces B B. These levers are connected together by means of two connecting-bars, F, said bars being placed upon the two sides of the levers, and pivoted to them, as seen at *d d*, near their outer ends.

D D represent arms, which are secured, at their upper ends, upon each side of the levers, and which have secured between their lower ends the rollers J J.

E represents the segment of rim-wheel, which has its two ends connected by means of a cross-bar, H. This segment E has trunnions formed upon each side of it, at its centre, and these trunnions have bearings in proper openings made for them in the uprights A A, the segment, of course, being placed between said uprights, as represented. The rollers J J bear upon the periphery of this segment.

I I represent rods or bars, which are passed through the levers C C, near their outer ends, and which answer as handles for operating the machine.

When the outer ends of the levers are alternately raised and lowered by means of their handles, I I, the rollers J J, bearing upon the segment, cause it to take an oscillating or rocking movement.

Near the outer ends of the bar H are made holes, *a a*, which serve to make connection with the machine to which power is to be applied.

This power may be connected to any machine where a reciprocating motion is required, such as a pump; or it may be connected to a pitman for giving rotary motion. The parts of it may be shifted or varied in position without difficulty, for adapting it to the various uses to which it may be applied.

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

The frame A A and B B, with the levers C C, with their arms D D, and rollers J J, and the segment E, and connecting-bars F F, constructed, arranged, and operating substantially as and for the purpose set forth.

MARCUS BOCKMAN.

Witnesses:

JULIUS E. ERICKSON,

E. J. SMITH.