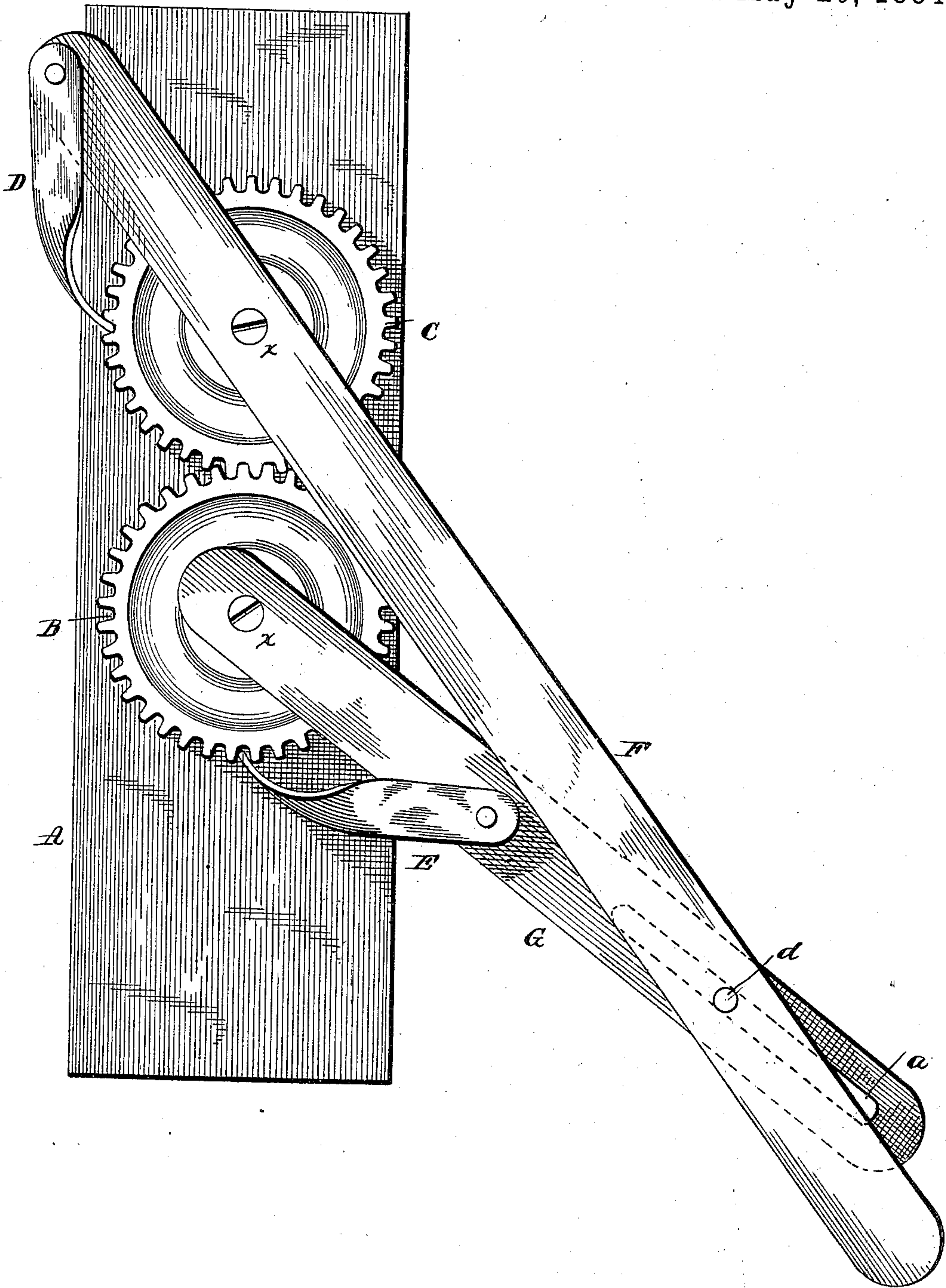


(No Model.)

F. M. NIXON.
MECHANICAL MOVEMENT.

No. 299,085.

Patented May 20, 1884.



WITNESSES

Edwin L. Jewell.
J. J. McCarthy.

INVENTOR

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UNITED STATES PATENT OFFICE.

FRANCIS M. NIXON, OF LENA, ILLINOIS, ASSIGNOR OF ONE-HALF TO
EDWARD W. SHOESMITH, OF SAME PLACE.

MECHANICAL MOVEMENT.

SPECIFICATION forming part of Letters Patent No. 299,085, dated May 20, 1884.

Application filed December 27, 1883. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS M. NIXON, a citizen of the United States, residing at Lena, in the county of Stephenson and State of Illinois, have
5 invented certain new and useful Improvements in Mechanical Movements, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to mechanical movements; and its object is to provide a simple
10 and efficient mode of converting reciprocating into rotary motion, as will be hereinafter fully set forth.

In the accompanying figure, which represents
15 a side view of my invention, A represents a beam in which two gear-wheels, B and C, are journaled. These wheels are so constructed that they mesh into each other.

F and G represent two levers, which are piv-
20 oted to the wheels C and B through and by means of their journals, as seen at *x x*. The lever F carries a pawl, D, and lever G a pawl, E, which catch into the teeth of wheels B and C, the two pawls, with their levers, serving to
25 rotate the wheels when an oscillating motion is imparted to one or both of them. The lever G is provided with a slot, *a*, and a pin or bolt connected to lever F passes through this slot, and adjustably secures the two levers together.
30 When a reciprocating or oscillating motion is given to the outer end of lever F, it communicates a similar motion to lever G, and each

lever, through its pawl, serves to impart a rotary motion to the wheels to which they are respectively connected. When the levers are
35 oscillated, one pawl is moving one of the gear-wheels forward, while the other is moving backward at the same time to catch a new or fresh hold on its wheel, and thus by a continued reciprocation of the levers the wheels
40 are kept in motion, and an almost continuous rotary motion is thus derived. Power and motion may be obtained from connection with the journal or shaft of either wheel. It is only necessary to communicate a reciprocating
45 motion to the free end of lever F, as it will propel the other lever, and the two will propel their respective wheels.

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

The levers G and F, one slotted and the other adjustably pivoted or connected thereto, and each carrying a pawl, in combination with
55 two intermeshing gear-wheels, B and C, substantially as and for the purpose herein set forth.

In testimony whereof I affix my signature in presence of two witnesses.

FRANCIS M. NIXON.

Witnesses:

SAML. J. DODDS,
W. H. H. MILLER.