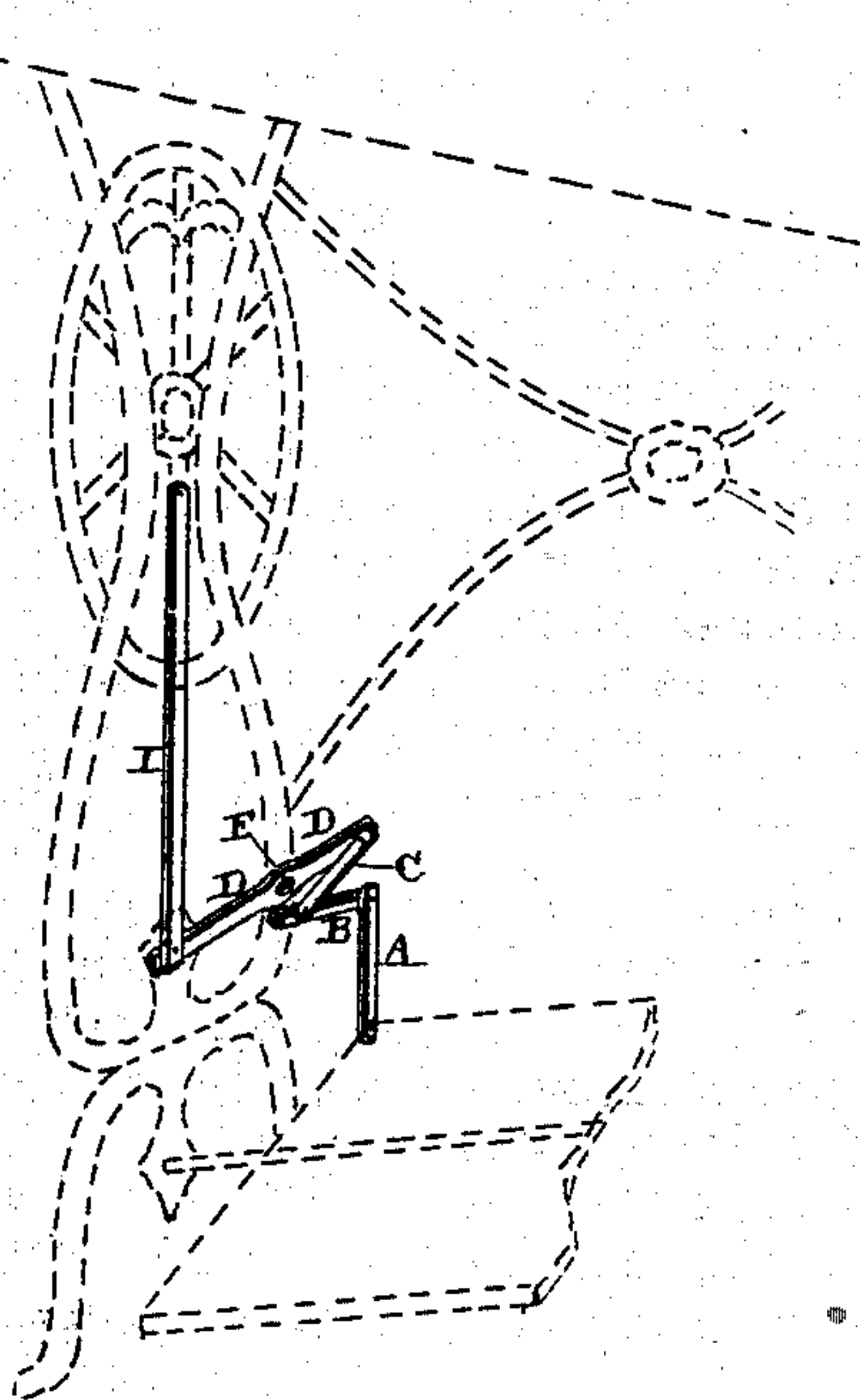


(No Model.)

J. T. WICKERSHAM.
MECHANICAL MOVEMENT.

No. 278,644.

Patented May 29, 1883.



— Witnesses. —

Louis L. Gardner

J. W. Garner

— Inventor. —

Jas. T. Wickersham,

per

F. A. Lehmann,

att'y.

UNITED STATES PATENT OFFICE.

JAMES T. WICKERSHAM, OF RED OAK, IOWA.

MECHANICAL MOVEMENT.

SPECIFICATION forming part of Letters Patent No. 278,644, dated May 29, 1883.

Application filed January 30, 1883. (No model.)

To all whom it may concern:

Be it known that I, JAMES T. WICKERSHAM, of Red Oak, in the county of Montgomery and State of Iowa, 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 drawing, which forms part of this specification.

My invention relates to an improvement in mechanical movements; and it consists in the combination of a connecting-rod which is to be applied to the source of power, a short pivoted lever, a connecting-rod, a long lever, and a connecting-rod applied to the end of the long lever for connection with the machine that is to be driven, as will be more fully described hereinafter.

The object of my invention is to combine together a number of levers and place them between the motive power and the machine that is to be driven, and thus obtain a sufficient increase of power to enable small light motors to operate machinery that it could not otherwise do without the help of combined levers.

The accompanying drawing represents my invention as applied to a sewing-machine.

Although my invention is here shown in connection with a sewing-machine, it is evident that it can be used in other connections.

A represents a connecting-rod, which is to be applied directly to the motive power, and which is connected at its upper end to the short lever B, which is pivoted at its inner

end upon any suitable support. In the outer end of this short lever there may be a series of holes whereby the connecting-rod may be shifted back and forth, according as a greater or less leverage is required. Fastened to the short lever B, at any suitable distance from its pivot, is the connecting-rod C, which unites the short lever to the shorter end of the long lever D, which is pivoted at F upon any suitable support. To the outer end of the long lever, which is provided with a series of holes, is attached the connecting-rod I, which will be united at its outer end with the machine which is to be driven. By adjusting this connecting-rod back and forth upon the outer lever, a greater or less leverage is obtained.

When the treadle or other motive power is set in motion the movement is imparted to the connecting-rod at the end of the long lever, and through this connecting-rod the machinery to be driven is set in motion.

By means of the arrangement of parts here shown a great increase of power is gained, and a light motor can be made to run heavy machinery.

Having thus described my invention, I claim—

As a mechanical movement, the combination of the connecting-rod A, lever B, connecting-rod C, lever D, and connecting-rod I, substantially as shown and described.

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

JAMES T. WICKERSHAM.

Witnesses:

J. F. STRATTON,
M. EDWARDS.