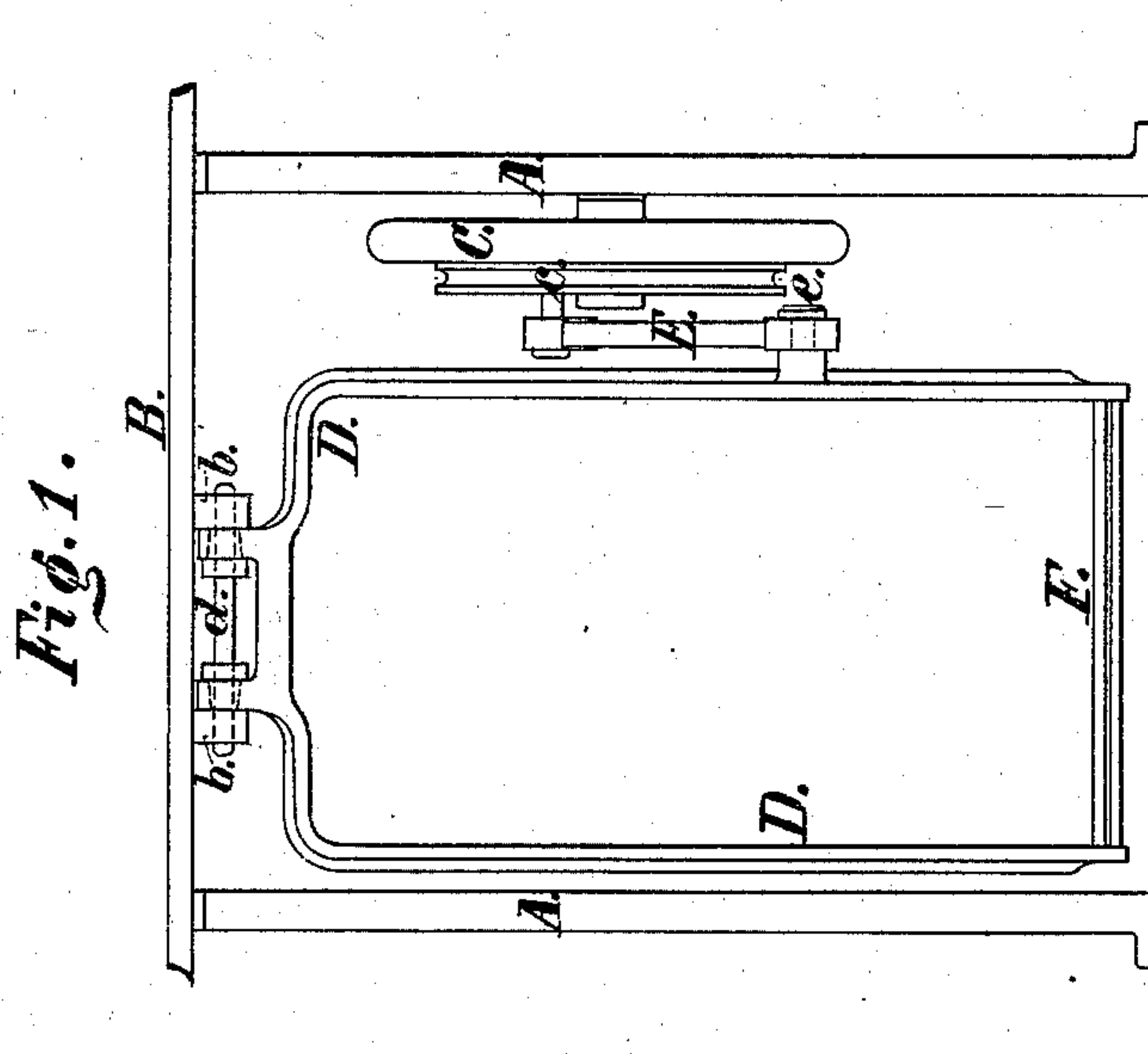
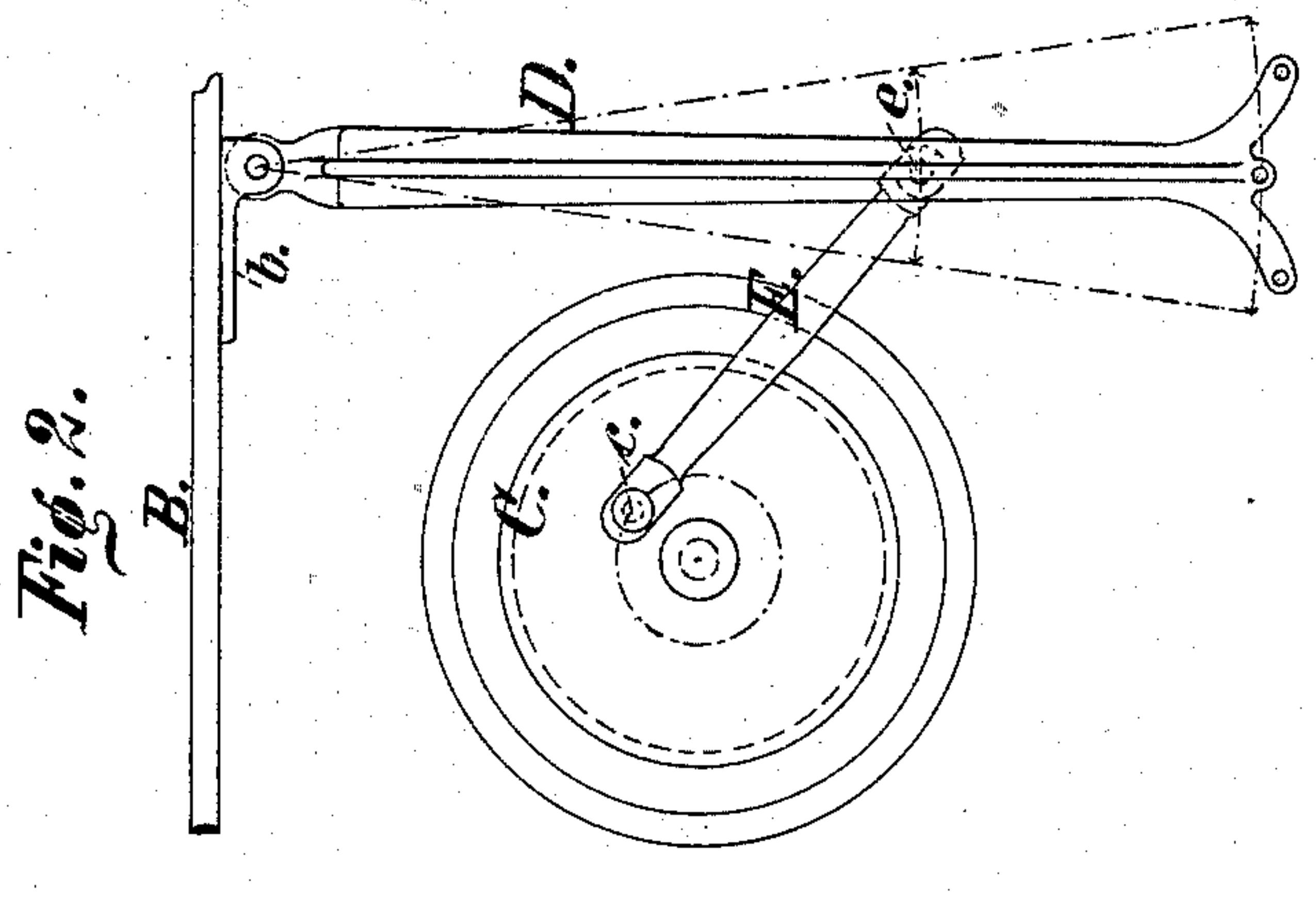


(No Model.)

H. KAMPRATH.  
TREADLE.

No. 254,825.

Patented Mar. 14, 1882.



Attest;  
*Edw. H. Graham*  
*A. St. Jasbera*

Inventor;  
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by *Munson & Philipp*  
Attys.

# UNITED STATES PATENT OFFICE.

HEINRICH KAMPRATH, OF CELLE, PRUSSIA, GERMANY.

## TREADLE.

SPECIFICATION forming part of Letters Patent No. 254,825, dated March 14, 1882.

Application filed December 21, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, HEINRICH KAMPRATH, a subject of the King of Prussia, residing at Celle, Prussia, German Empire, have invented certain new and useful Improvements in Treadles for Sewing and other Machines, of which the following is a specification.

My invention relates to an improved treadle or driving mechanism, the object of which is to greatly facilitate the action of driving sewing-machines and other apparatuses by foot; the ankles or joints of the foot will not longer undergo the fatigues which they suffer by continued work with the treadles actually in use. The said mechanism of my invention is shown in the drawings—

Figure 1 being a front elevation; Fig. 2, a side elevation of the said device, which, in this case, is applied to a sewing-machine of any kind, though it may as well be used in combination with any other machine or apparatus which is able to be worked by foot.

A is the frame of the sewing-machine; B, the plate or table of the same; C, the fly-wheel and pulley; D, the frame of the swinging driving mechanism; E, the connecting-rod.

The frame D of the swinging mechanism is conveniently arranged below the table B of the sewing-machine or apparatus, and it is made to swing upon tenons *d* and in hinges *b*. The side bars of the frame D are extended down to allow the foot of the operator to be easily placed upon a treadle or rest.

At the fly-wheel side of the machine the frame D is provided with an eye, *e*, or a hook or convenient means to attach the connecting-rod E, the upper end of which is connected to the fly-wheel C at *c*.

The operation is going on as follows: The operator puts his foot or both his feet upon the treadle or rest F and gets his legs into a swinging or dangling forward-and-backward motion, the foot or feet resting idle, the legs only swinging in the joints of the knee. The frame D thus swinging to and fro in a straight line imparts a revolving motion to the fly-wheel C through the connecting-rod E, and thus the machine is set at work with the least possible exertion of the legs.

What I claim, and wish to secure by Letters Patent, is—

The combination of the swinging frame D, hinged at a point above the axis of the crank or fly wheel, and provided with the foot-rest D', the crank or fly wheel, and the pitman or connecting rod E, connecting the crank or fly wheel directly to the swinging frame at a point between its hinge and the foot-rest, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HEINRICH KAMPRATH.

Witnesses:

WILLIAMS C. FOX,  
JOHS. KRACKE.