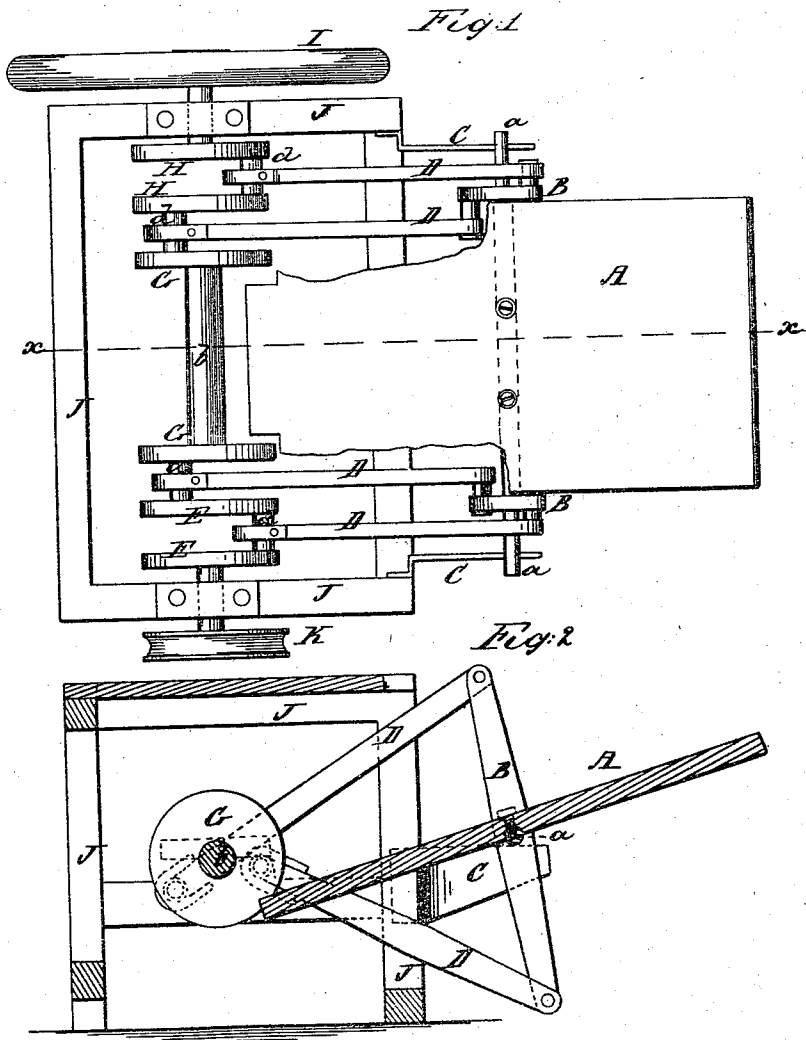


J. G. Deshler

Treadle.

N^o 82,296.

Patented Sept. 22, 1868.



Witnesses
Wm. A. Morgan
G. E. Cotton

Inventor
J. G. Deshler
per Murray & Co
Attorneys

United States Patent Office.

JACOB G. DESHLER, OF ALLENTOWN, PENNSYLVANIA.

Letters Patent No. 82,296, dated September 22, 1868.

IMPROVED MACHINE FOR CONVERTING RECIPROCATING INTO ROTARY MOTION.

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, JACOB G. DESHLER, of Allentown, in the county of Lehigh, and State of Pennsylvania, have invented a new and useful Improvement in Man-Power Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a top view of my improved man-power machine.

Figure 2 is a vertical section of the same through the line *x x*, fig. 1.

Similar letters of reference indicate like parts.

The object of this invention is to furnish a simple and effective machine for transmitting man-power with the least fatigue to the operator.

It consists of a vibrating foot-board, in combination with a crank-shaft, and a pair of double pitmen connecting the cranks of the crank-shaft, as will be hereinafter more fully described.

In the drawings, A is the vibrating foot-board, affixed on a shaft, *a*, the trunnion-ends of which rest on the plates C, affixed to the frame J of the machine, and afford linear bearings to the said trunnions, which bearings allow a short rectilinear play to the trunnion-shaft, which lessens the tendency of the machine to catch on the dead-points or dead-centres, so called.

The rectilinear bearings also induce less friction than would the usual box-bearings.

On the trunnion-shaft are affixed two pitman-beams, B, each of the ends of which is connected with a crank on the shaft by means of a pitman, D.

b is the crank-shaft, having four crank-wrists, *d*, joining the crank-disk EE, EG, GG, and HH, as shown. To these wrists the pitmen D are coupled in any suitable manner.

I is a fly-wheel, and K is a pulley for transmitting the power obtained to any work.

In using this machine, the operator stands on the board with a foot on each side of the centre of vibration, and by alternately leaning forward and backward, thus bringing his weight on each side of the said centre of vibration, the machine is driven.

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

The combination, in a man-power machine, of the vibrating foot-board A, the trunnions of which have rectilinear bearings, substantially as described, with the pitman-beams B, pitman D, and crank-shaft *b*, all arranged and combined substantially as shown and described for the purpose set forth.

JACOB G. DESHLER.

Witnesses:

JOSHUA STABLER,
ABRAHAM WORMAN.