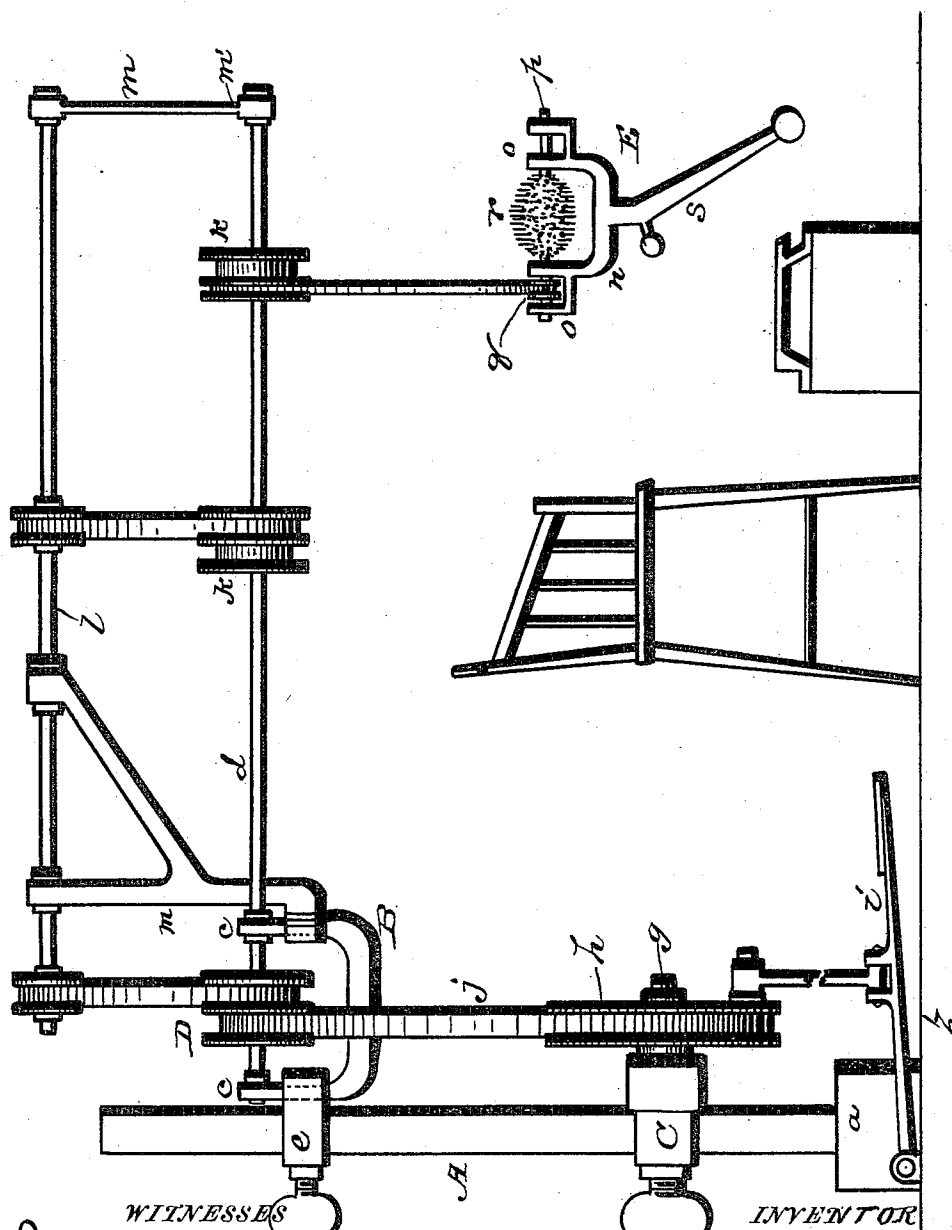


(No Model.)

J. R. VANDERVOORT.
POWER MACHINE.

No. 464,807.

Patented Dec. 8, 1891.



WITNESSES

James B. Clarke
M. M. Martin

INVENTOR

John R. Vandervoort
by C. H. Bates Attorney

UNITED STATES PATENT OFFICE.

JOHN R. VANDERVOORT, OF NEW YORK, N. Y.

POWER-MACHINE.

SPECIFICATION forming part of Letters Patent No. 464,807, dated December 8, 1891.

Application filed September 7, 1891. Serial No. 404,983. (No model.)

To all whom it may concern:

Be it known that I, JOHN R. VANDERVOORT, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Power-Machines; 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 appertains to make and use the same.

This invention relates to improvements in power-machines; and it consists in the novel construction and arrangements and combination of parts, whereby different tools applicable thereto can be readily and easily used, all as will be hereinafter fully set forth.

The annexed drawing, to which reference is made, fully illustrates my invention, in which the figure represents a front view of my improved power-machine.

Referring by letter to the accompanying drawing, A designates an upright or standard having a solid base *a*, which may be screwed to the floor *b*, if desired, or otherwise secured. To the upper portion of this standard is adjustably attached a U-shaped support B, which is provided at its ends *c c* with bearings to receive a horizontal shaft *d*. To this U-shaped support or frame is secured a clamp *e*, encircling the standard and having a set-screw *f*, whereby, when the screw is turned up, the frame is held firmly in position.

On the standard and below the frame is adjustably secured a clamp C, having an extended arm *g*, on which is a crank-wheel *h*, to the crank of which is a pitman that is pivoted at its lower end to a treadle *i*, by which latter power is communicated to the machine.

D represents a double pulley, which is arranged on the horizontal shaft *d*, and is connected to the crank-pulley by an elastic belt *j*, and on this shaft are pulleys *k*, which also have elastic belts, one of which is connected to a shoe brushing and polishing device, presently explained. The shaft *d* is suspended and supported by the U-shaped frame aforesaid, and above the same is a shaft *l*, parallel with the shaft *d*, and the two shafts are secured or attached to one another by arms *m*,

the lower end *m'* of which forms a bearing for the shaft *d*, while the upper ends present bearings for the shaft *l*. These shafts have pulleys, as shown, and are connected by the elastic belts.

E represents a shoe brushing and polishing device, which is constructed with a U-shaped frame *n*. The ends *o* form bearings for a cross-shaft *p*, having a small pulley *q*, to which the elastic belt is connected. On this shaft last mentioned is a revolving brush *r*, and extending from the frame *n* is an angular arm *s*, forming a handle for the brush.

It will be seen from the above description and by reference to the annexed drawing that when the treadle is operated the shaft *d* revolves through the medium of the belt *j*, and through the belt of the polishing-brush the latter is revolved, and by the elasticity of said belt the operator of the shoe device can readily and quickly brush and polish shoes. This device can be used for various purposes, such as drilling, turning a mandrel, grinding and polishing, boring, running a circular saw, and in fact for almost any purpose for which a power may be needed, and it is also useful for running fly-fans as well as running a blower.

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

1. The frame or support B, having end bearings and clamp, in combination with the standard, crank-wheel having the clamp on its support, the treadle and shaft *d*, carrying the pulleys and belts, all as and for the purposes set forth.

2. In combination, the shoe-brush and frame therefor and mounted on the shaft *p*, the shafts *d l*, provided with pulleys and belts, the U-shaped support or frame B, provided with the clamp, belt *j*, crank-pulley having the adjusting-clamp and treadle, and the standard, all substantially as described.

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

JOHN R. VANDERVOORT.

Witnesses:

JOHN FITZGERALD,
P. GERLACH.