J. G. HENDERSON.

FLOOR SANDER.

APPLICATION FILED JUNE 8, 1906.

915,597. Patented Mar. 16, 1909.

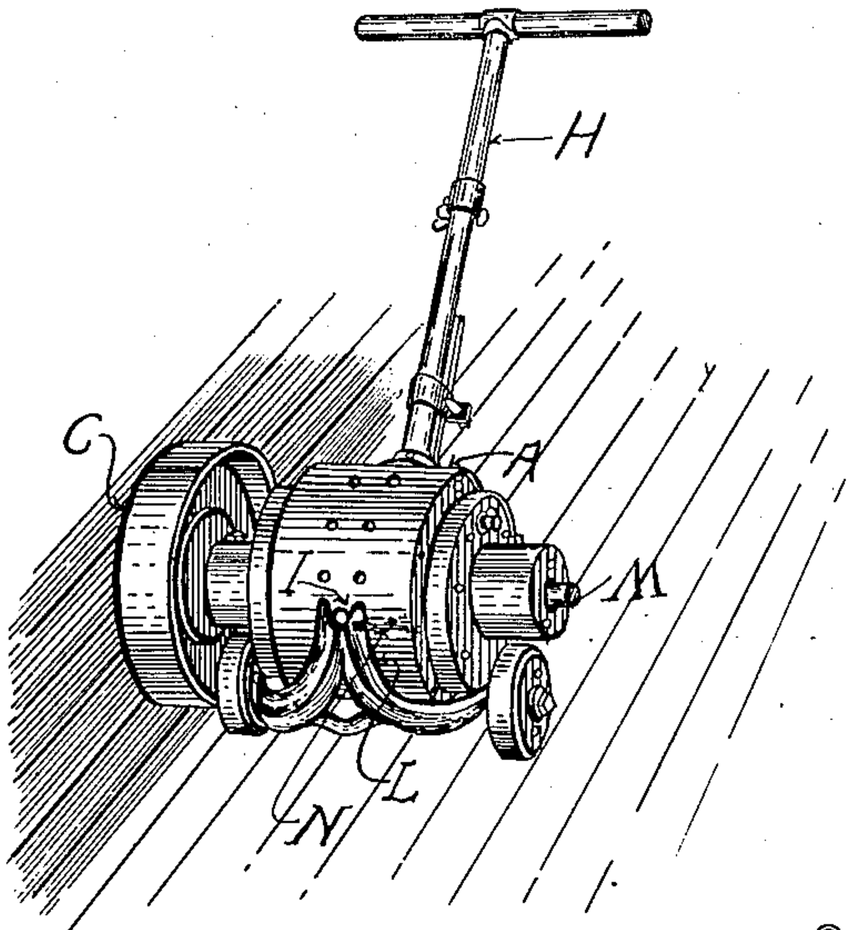

Fig. 1

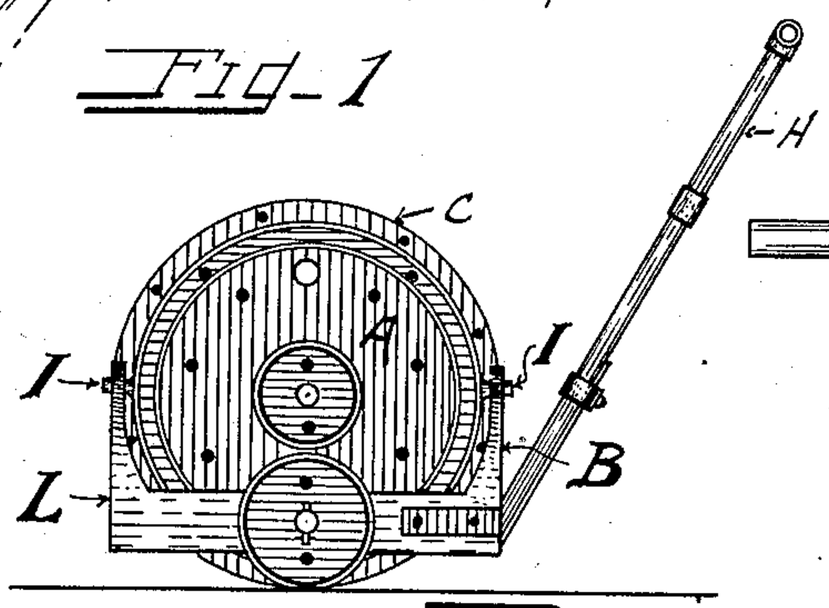

Fig. 3

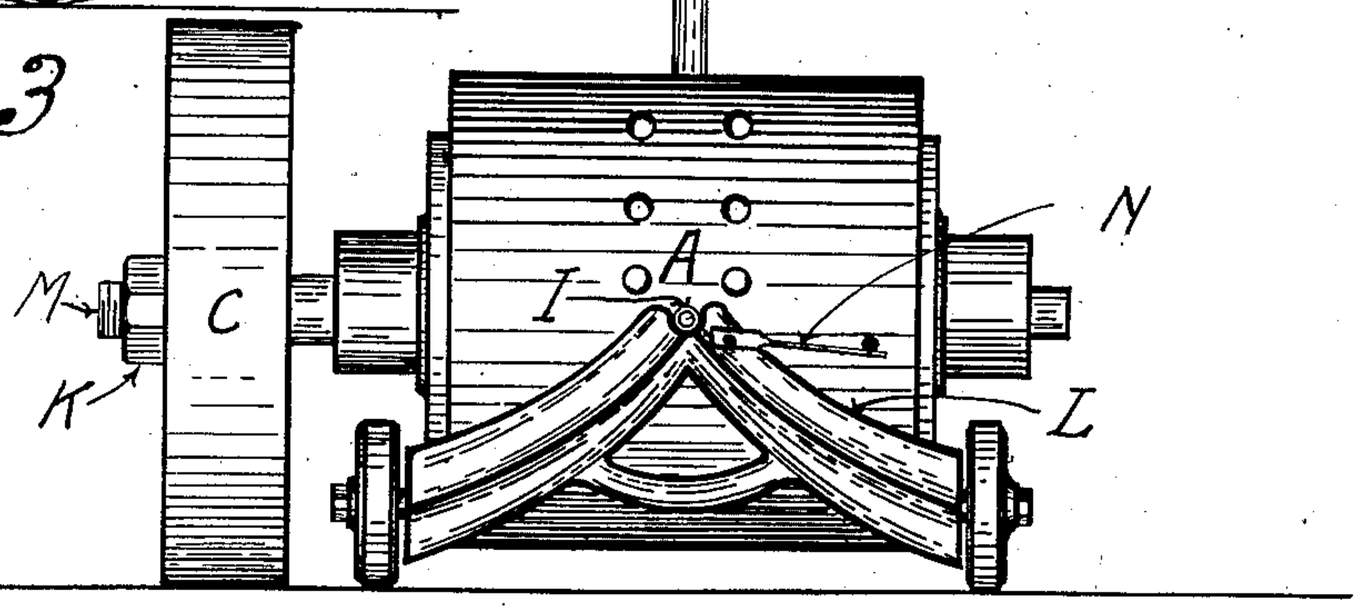

Fig. 2

Witnesses

W. C. DeLonge.

G. E. Church.

Inventor:

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UNITED STATES PATENT OFFICE.

JOHN G. HENDERSON, OF CHICAGO, ILLINOIS.

FLOOR-SANDER.

No. 915,597. Specification of Letters Patent. Patented March 16, 1909.

Application filed June 8, 1906. Serial No. 320,914.

To all whom it may concern:

Be it known that I, JOHN G. HENDERSON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Floor-Sanders, of which the following is a specification.

The object of this invention is to construct a machine to run by power to sandpaper floors ready to varnish. To do this, I provide a two wheeled truck with a pair of bearings upon which rest a motor, to the shaft of which is directly connected a sandpaper drum. The preponderance of weight is on the drum end and is sufficient to hold the drum end to its work. The pressure of the drum on the floor is uniform and is not affected by the raising or lowering of the handle. The truck is moved over the floor by its handle, while the drum, being driven by the motor with great speed, does the sand papering. With a narrow drum working in view of the operator and completely under his control, it will level the joinings and polish the floor without being disturbed by the undulations that are found in all floors.

The object of mounting the motor and sandpapering drum on trunnions is to detach the weight of the motor from the pressure of the drum, as I have found that it is impossible to gage the pressure on the drum with sufficient accuracy when the weight of the motor affects the pressure of the drum.

To enable others skilled in the art to make and use my invention, I proceed to describe its construction and operation by means of the accompanying drawings, in which—

Figure 1 is a perspective view of the machine in operation. Fig. 2 is a front view—Fig. 3 is a side view.

Similar letters refer to similar parts in each figure.

L is a truck comprising a rigid frame with a wheel on each side and a handle rigidly attached to the rear thereof. An open bearing is provided at the front and at the rear ends of the truck. A cylindrical casing A, containing a motor, is provided with trunnions I on opposite sides of its periphery about midway its length. These trunnions I rest in the bearings on the truck L.

A sand paper drum C is secured directly to the rotary shaft M of the motor by means of a nut K. A band of sand paper is removably secured to the drum. The drum and the motor are so balanced on the bearings of the truck that the preponderance of weight is on the drum end. A small leaf spring N is secured to the truck frame, and the free end thereof may be made to act against a pin on the motor casing to slightly increase the pressure of the drum on the floor when deemed necessary.

The motor and casing can readily be reversed on the trunnion bearings so as to work on either side of the truck.

The truck can be moved over the floor by means of the handle while the motor drives the sand paper drum with great speed, thereby evening the joinings and smoothing the floor preparatory to varnishing.

Having thus described my invention, what I claim is—

1. In a floor sander: the combination of a wheeled truck provided with a pair of bearings, a casing provided with a pair of trunnions and mounted in said bearings so as to be capable of oscillating, a motor within the casing and provided with a shaft extending outwardly from the side of the truck, and a sanding drum mounted on the extended shaft substantially as described.

2. In a floor sander: the combination of a wheeled truck provided with a pair of bearings, a casing provided with a pair of trunnions and mounted in said bearings so as to be capable of oscillating, a motor within the casing and provided with a shaft extending outwardly from the side of the truck, and a sanding drum mounted on the extended shaft, and a handle to said truck whereby the operator can move it over the floor as required, substantially as described.

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

JOHN G. HENDERSON.

Witnesses:
G. E. CHURCH,
L. B. COUPLAND.