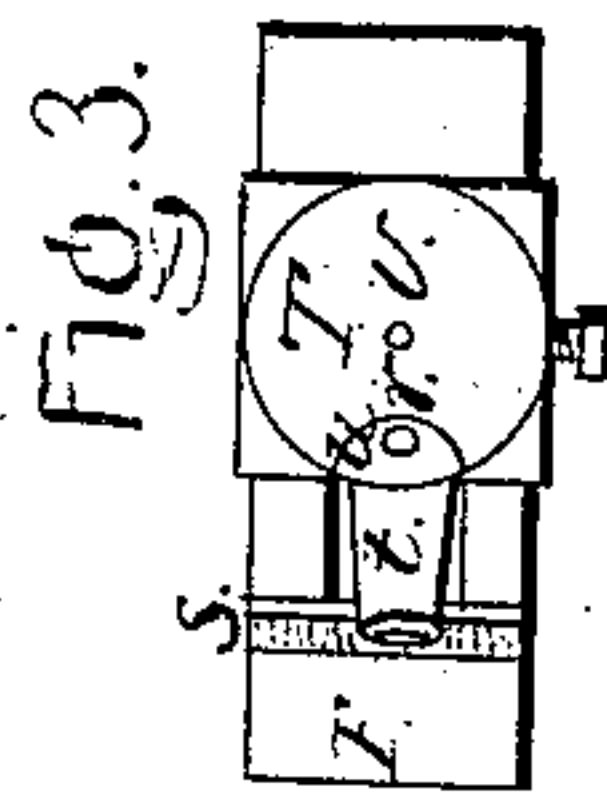
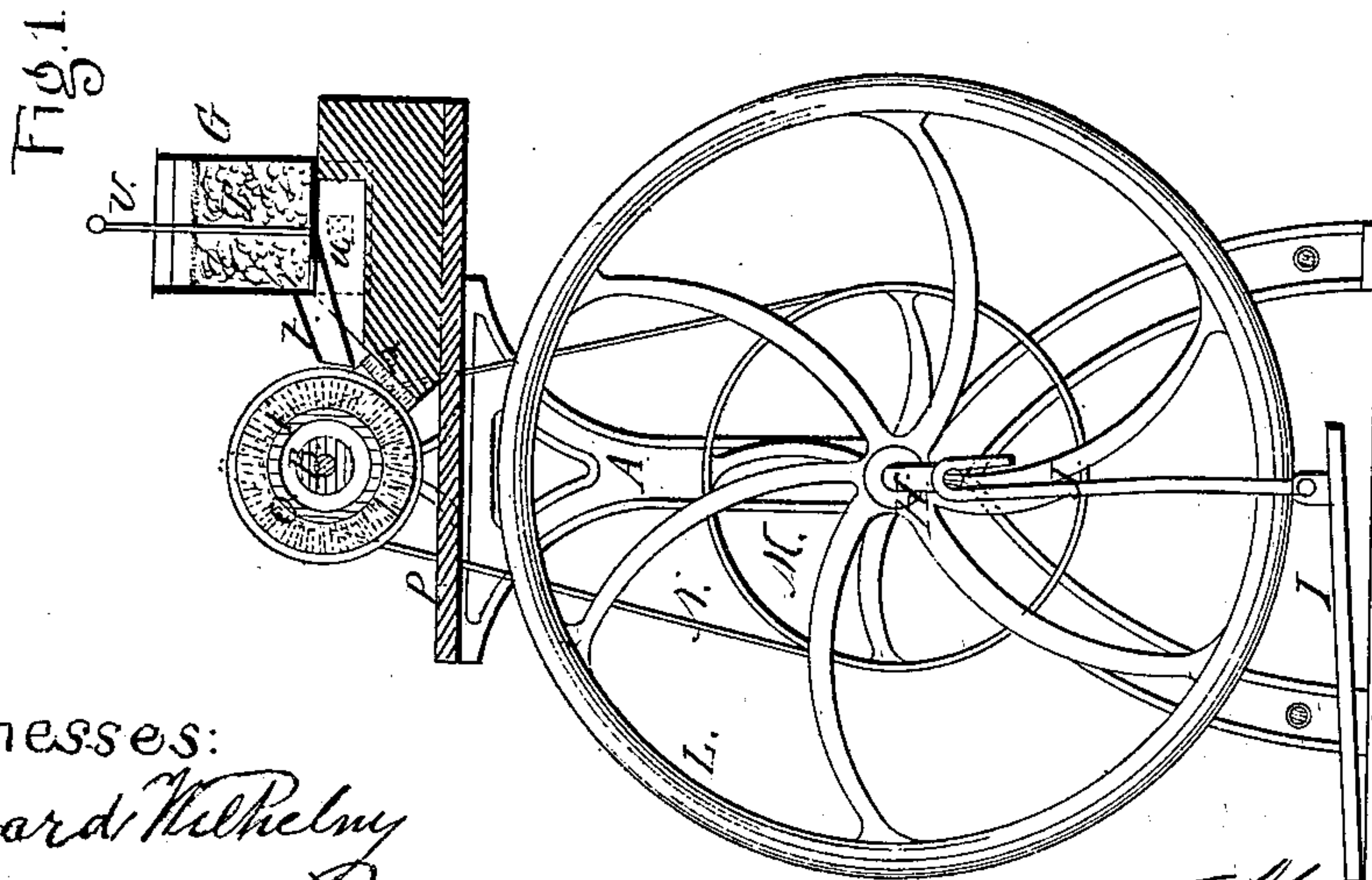
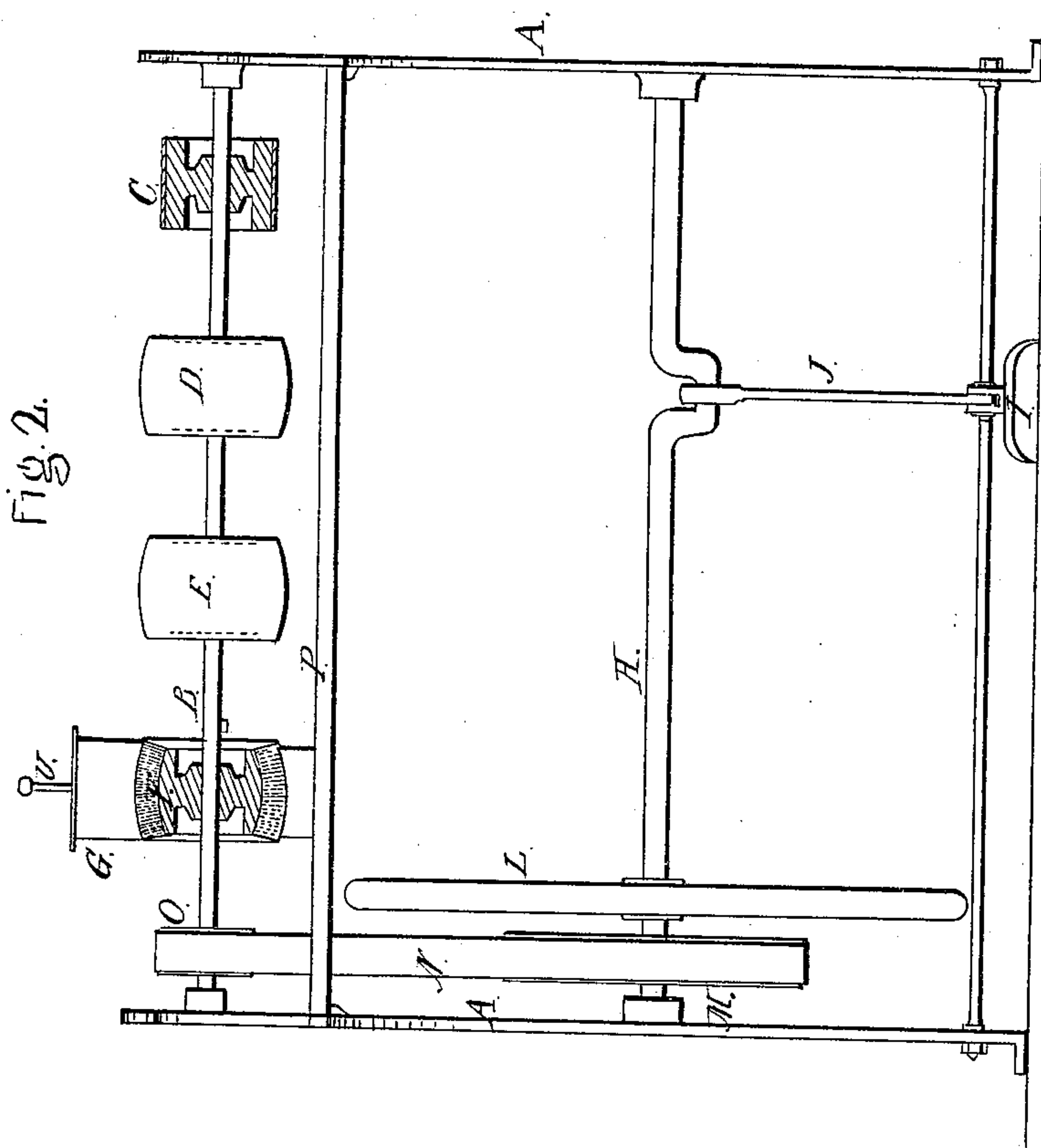


M. Burnell.

Boot Blacking Mach.

N^o 89,552.

Patented May 4, 1869.



Witnesses:
Edward Wilhelm
Victor H. Baker.

Inventor:
Martin Burnell
by Forbes & Hayes
attys



MARTIN BURNELL, OF ARUNDEL, ENGLAND.

Letters Patent No. 89,552, dated May 4, 1869.

IMPROVED BOOT-BLACKING MACHINE.

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, MARTIN BURNELL, of Arundel, in the county of Sussex, England, have invented a new and improved Machine for Blacking Boots and Cleaning Knives; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings making part of this specification.

My invention relates to a machine composed essentially of a horizontal shaft provided with a series of revolving brushes or wheels for the above purposes.

It consists in the construction and arrangement of a blacking-reservoir, valve, and spout, with a distributing-brush and blacking-wheel, in the special manner hereinafter set forth.

In the drawings—

Figure I is a transverse vertical section,

Figure II a front elevation,

Figure III a horizontal section of the blacking-cup or reservoir.

Like letters of reference designate like parts in each of the figures.

A A are two standards of any suitable construction.

B, a horizontal shaft having its bearings supported therein.

C, a buff or emery-wheel for cleaning and polishing cutlery.

D, a brush-wheel for cleaning the boots and shoes preparatory to blacking them.

F is the blacking-wheel which receives liquid blacking from the reservoir G.

E is a brush polishing-wheel.

H is a crank-shaft having its bearings formed in the standards A.

I is a treadle, and J, a connecting-rod which gives motion to this crank-shaft.

L is a fly-wheel, and M, a driving-wheel mounted on said shaft.

N is a belt connecting the driving-wheel with a pulley O on the shaft B, by which the latter receives its motion.

P is a wooden shelf underneath the shaft B for holding the cutlery as it is being cleaned. It also forms a rest for the boots and shoes while they are being cleaned and polished, and a support for the standard to which the blacking-reservoir G is secured.

This reservoir G may be made of tin of sufficient capacity to hold a suitable supply of liquid blacking.

The blacking is permitted to flow through a small opening *r* in the bottom into a spout *t*, which conducts it on to a distributing-brush *s*, which is arranged in contact with the blacking-wheel F, and uniformly distributes the blacking over the latter as it revolves.

The flow of the blacking is regulated and shut off by means of a cover or disk-valve T, fitting in the bottom of the reservoir, with a notch *u* cut out of one edge to permit the escape of the blacking when this notch is contiguous to the hole *r*, as shown in Fig. III.

A small rod *v* extends from the valve through the top of the cup or reservoir, by means of which the valve is turned so as to bring the unnotched portion of the disk over the opening for regulating or entirely cutting off the escape of the liquid.

The construction and arrangement of the blacking-cup with the distributing-brush and blacking-wheel, enable the latter to be properly and evenly supplied with the blacking, which is essential to the practical working of the machine.

The boot or shoe being successively subjected to the action of the wheels D E F, is cleaned, blacked, and polished in the shortest period of time, the arrangement of the wheels being such as to enable the boot to be handled with great facility, so as to bring such portions of it as may be required under the operation of the wheels.

The burnishing-wheel *c* operates with equal efficiency in cleaning cutlery, the shelf P performing the offices before specified.

The reservoir G is made adjustable on its support to and from the blacking-wheel as may be required.

I am well aware that a distributing-device, composed of a reservoir, valve, and spout, is used with a hand-brush, and therefore do not claim the same; but

What I claim as my invention and desire to secure by Letters Patent, is—

The construction and arrangement of the blacking-reservoir G, valve T, and spout *t*, with the distributing-brush *s*, and blacking-wheel F as a whole, operating as set forth.

Witnesses:

JAY HYATT,
I. N. BLAKE.

MARTIN BURNELL.